

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

RCVD OCT 26 '06
OIL CONS. DIV.

DIST. 3

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

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 30th Street, Farmington, New Mexico, 87402
Facility or well name: Mexico Federal N No. 2 API #: 30045255480000 U/L or Qtr/Qtr F Sec 15 T 29N R 11W
County: San Juan Latitude 36.72786 Longitude -107.98304 NAD: 1927 ☒ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit	Below-grade tank	
Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ 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 ☐ 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) 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 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) 10
Ranking Score (Total Points)		10

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 IEI. (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:
Excavated Area 2 - BGT # 2

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: 10/23/06

Printed Name/Title Mr. Ed Hasely, Environmental Advisor

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. III
Printed Name/Title Brandon Penell

Signature

Date:

OCT 26 2006

CLIENT: <u>Burlington Resources</u>	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: _____
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u> </u>
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LOCATION: NAME: <u>Mexico Federal N</u> WELL #: <u>2</u> PIT: _____ QUAD/UNIT: _____ SEC: <u>15</u> TWP: <u>29N</u> RNG: <u>11W</u> PM: <u>NMNM</u> CNTY: <u>SS</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1850' FNL</u> <u>1460' FWL</u> CONTRACTOR: <u>M&M</u>	DATE STARTED: <u>9/17/06</u> DATE FINISHED: <u>9/20/06</u> ENVIRONMENTAL SPECIALIST: <u>M&M</u>
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EXCAVATION APPROX. <u>55</u> FT. x <u>21</u> FT. x <u>9</u> FT. DEEP.	CUBIC YARDAGE: <u>385 yd³</u>	est
DISPOSAL FACILITY: <u>IEI</u> REMEDIATION METHOD: <u>Land farm</u>		
LAND USE: _____ LEASE: <u>NMNM-020505</u> FORMATION: _____		

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>40'</u> FT. <u>260°</u> FROM WELLHEAD.	
DEPTH TO GROUNDWATER: <u>0</u>	NEAREST WATER SOURCE: <u>0</u>	NEAREST SURFACE WATER: <u>10</u>
NMDCD RANKING SCORE: <u>10</u>	NMDCD TPH CLOSURE STD: <u>1000</u> PPM	

SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: ☐ PIT ABANDONED ☐ STEEL TANK INSTALLED
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ACE No. 30-045-25548
 Excavated Area 2

AST and separators have been moved from there original location. Bottom sample collected by Envirotech. Well sample will be collected by M&M after further excavation on NW area.

FIELD 418.1 CALCULATIONS

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

SCALE

 0 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%">SAMPLE ID</th><th style="width:85%">FIELD HEADSPACE PID (ppm)</th></tr> <tr><td>1</td><td> </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> <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> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1		2		3		4		5												<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align:center;">LAB SAMPLES</th></tr> <tr> <th style="width:25%">SAMPLE ID</th><th style="width:45%">ANALYSIS</th><th style="width:30%">TIME</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME																		
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TRAVEL NOTES: _____	CALLOUT: _____ ONSITE: _____
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

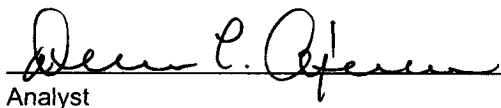
Client:	Burlington	Project #:	92115-102
Sample ID:	Excavated Area 2 Bottom @ 9'	Date Reported:	09-22-06
Laboratory Number:	38528	Date Sampled:	09-19-06
Chain of Custody No:	1485	Date Received:	09-19-06
Sample Matrix:	Soil	Date Extracted:	09-21-06
Preservative:	Cool	Date Analyzed:	09-22-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

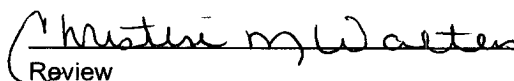
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	101	0.2
Diesel Range (C10 - C28)	46.7	0.1
Total Petroleum Hydrocarbons	148	0.2

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: **Mexico Federal N #2**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington	Project #:	92115-102
Sample ID:	Excavated Area 2 Bottom @ 9'	Date Reported:	09-22-06
Laboratory Number:	38528	Date Sampled:	09-19-06
Chain of Custody:	1485	Date Received:	09-19-06
Sample Matrix:	Soil	Date Analyzed:	09-22-06
Preservative:	Cool	Date Extracted:	09-21-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	24.9	1.8
Toluene	198	1.7
Ethylbenzene	415	1.5
p,m-Xylene	2,100	2.2
o-Xylene	524	1.0
Total BTEX	3,260	

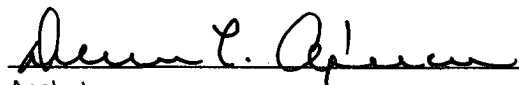
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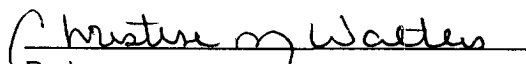
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Mexico Federal N #2


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-22-BTEX QA/QC	Date Reported:	09-22-06
Laboratory Number:	38526	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-22-06
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	5.4863E+007	5.4973E+007	0.2%	ND	0.2
Toluene	6.7025E+007	6.7159E+007	0.2%	ND	0.2
Ethylbenzene	2.8770E+007	2.8828E+007	0.2%	ND	0.2
p,m-Xylene	1.2271E+008	1.2295E+008	0.2%	ND	0.2
o-Xylene	5.9332E+007	5.9451E+007	0.2%	ND	0.1

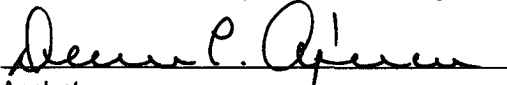
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	13.0	13.0	0.0%	0 - 30%	1.5
p,m-Xylene	59.5	59.4	0.2%	0 - 30%	2.2
o-Xylene	27.1	27.1	0.0%	0 - 30%	1.0

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	50.0	100.0%	46 - 148
Ethylbenzene	13.0	50.0	62.9	99.8%	32 - 160
p,m-Xylene	59.5	100	159	99.9%	46 - 148
o-Xylene	27.1	50.0	77.0	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 38526 - 38528, 38541, 38551 - 38555


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Review

1485

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

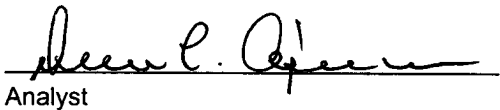
Client:	Burlington Resources	Project #:	92115-102
Sample ID:	Excavated Area 2, Walls, Comp	Date Reported:	10-06-06
Laboratory Number:	38710	Date Sampled:	09-22-06
Chain of Custody No:	1563	Date Received:	10-03-06
Sample Matrix:	Soil	Date Extracted:	10-05-06
Preservative:	Cool	Date Analyzed:	10-06-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

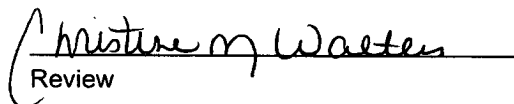
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.7	0.2

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: **Mexico Federal N #2**


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:	10-06-06 QA/QC	Date Reported:	10-06-06
Laboratory Number:	38694	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-06-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	9.9072E+002	9.9171E+002	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	9.9987E+002	1.0019E+003	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

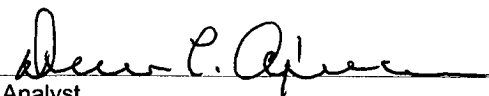
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

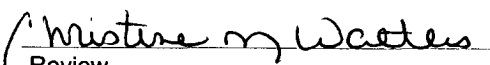
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 38694 -38699, 38710, 38722 - 38723, 38725


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Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-102
Sample ID:	Excavated Area 2, Walls, Comp	Date Reported:	10-06-06
Laboratory Number:	38710	Date Sampled:	09-22-06
Chain of Custody:	1563	Date Received:	10-03-06
Sample Matrix:	Soil	Date Analyzed:	10-06-06
Preservative:	Cool	Date Extracted:	10-05-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	13.7	1.8
Toluene	62.4	1.7
Ethylbenzene	34.4	1.5
p,m-Xylene	87.5	2.2
o-Xylene	48.6	1.0
Total BTEX	247	

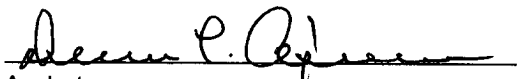
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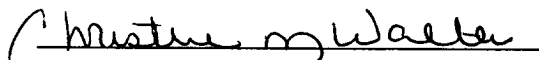
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Mexico Fed N #2


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-06-BTEX QA/QC	Date Reported:	10-06-06
Laboratory Number:	38699	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-06-06
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	5.5418E+007	5.5529E+007	0.2%	ND	0.2
Toluene	7.9352E+007	7.9511E+007	0.2%	ND	0.2
Ethylbenzene	3.0932E+007	3.0994E+007	0.2%	ND	0.2
p,m-Xylene	1.3749E+008	1.3777E+008	0.2%	ND	0.2
o-Xylene	7.1643E+007	7.1787E+007	0.2%	ND	0.1

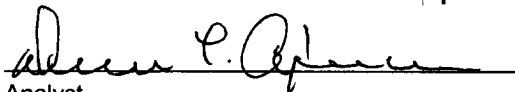
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	56.0	55.9	0.2%	0 - 30%	1.8
Toluene	41.5	41.5	0.0%	0 - 30%	1.7
Ethylbenzene	65.7	65.6	0.2%	0 - 30%	1.5
p,m-Xylene	169	168	0.2%	0 - 30%	2.2
o-Xylene	80.4	80.3	0.1%	0 - 30%	1.0

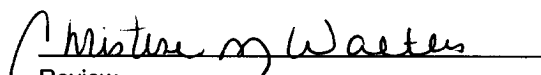
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	56.0	50.0	105	99.4%	39 - 150
Toluene	41.5	50.0	91.3	99.8%	46 - 148
Ethylbenzene	65.7	50.0	115	99.7%	32 - 160
p,m-Xylene	169	100	268	99.9%	46 - 148
o-Xylene	80.4	50.0	130	99.8%	46 - 148

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 38699, 38710


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Review

1593

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