

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: BP America Production Company Telephone: (505)326-9200 e-mail address: _____
Address: 200 Energy Ct, Farmington, NM 87401
Facility or well name: RIDDLE C COM # 8 API #: 30045 26827 U/L or Qtr/Qtr B Sec 29 T 31 NR 9W
County: San Juan Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☒
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☐ Production ☒ Disposal ☐
Workover ☐ Emergency ☐
Lined ☐ Unlined ☐
Liner type: Synthetic ☐ Thickness _____ mil Clay ☐
Pit Volume _____ bbl

Below-grade tank

Volume: _____ bbl Type of fluid: WATER
Construction material: _____
Double-walled, with leak detection? Yes ☐ 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)

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: _____ (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 FEB 20 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:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 3

Signature [Signature]

Date: FEB 20 2007

3004526821

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>10657</u> COCR NO: _____
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FIELD REPORT: PIT CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>2</u>
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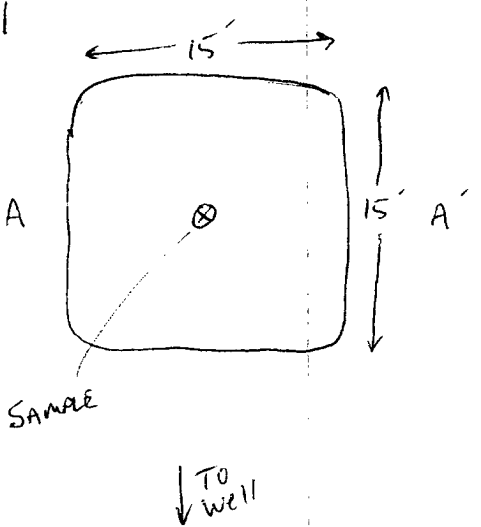
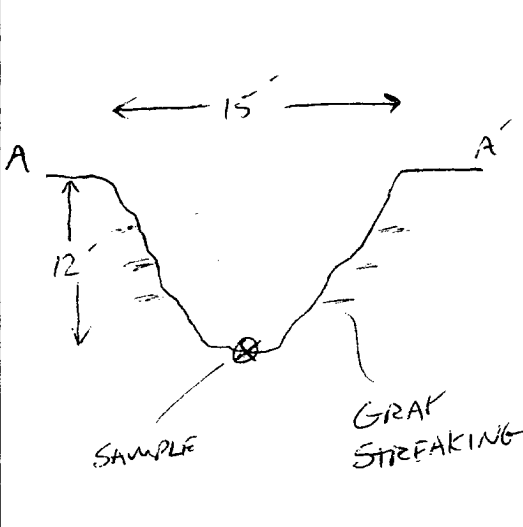
LOCATION: NAME: <u>RIDDLE C COM</u> WELL #: <u>8</u> TYPE: <u>SEP</u>	DATE STARTED: <u>2-20-03</u>
QUAD/UNIT: <u>B SEC: 29 TWP: 31N RNG: 9W PM: NM CNTY: SJ ST: NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>1135'N/1850'E NW/NE</u> CONTRACTOR: <u>FLAT (COWELL)</u>	ENVIRONMENTAL SPECIALIST: <u>JCB</u>

EXCAVATION APPROX. <u>15</u> FT. x <u>15</u> FT. x <u>12</u> FT. DEEP. CUBIC YARDAGE: <u>550</u>	
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>	
LAND USE: <u>FEE RANGE 8</u> LEASE: <u>NAAM 91235 FEE</u> FORMATION: <u>PC</u>	

FIELD NOTES & REMARKS: <u>PIT LOCATED APPROXIMATELY 78 FT. N1°W FROM WELLHEAD.</u>	
DEPTH TO GROUNDWATER: <u>> 50</u> NEAREST WATER SOURCE: <u>> 1000</u> NEAREST SURFACE WATER: <u>< 1000</u>	
NMOCD RANKING SCORE: <u>10</u> NMOCD TPH CLOSURE STD: <u>1000</u> PPM	

SOIL AND EXCAVATION DESCRIPTION:	OVM CALIB. READ. = <u>131.1</u> ppm OVM CALIB. GAS = <u>250</u> ppm RF = 0.52 TIME: <u>0915</u> (am/pm) DATE: <u>2-21-03</u>
SOIL TYPE: SAND <u>(SILTY SANDY)</u> SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____	
SOIL COLOR: <u>GRAY</u>	
COHESION (ALL OTHERS): NON COHESIVE <u>(SLIGHTLY COHESIVE)</u> / 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 <u>(FIRM)</u> STIFF / VERY STIFF / HARD	
MOISTURE: DRY <u>(SLIGHTLY MOIST)</u> / MOIST / WET / SATURATED / SUPER SATURATED	
DISCOLORATION/STAINING OBSERVED: <u>(YES)</u> NO EXPLANATION - <u>GRAY</u>	
HC ODOR DETECTED: <u>(YES)</u> NO EXPLANATION - <u>MODERATE</u>	
SAMPLE TYPE: <u>(GRAB)</u> COMPOSITE - # OF PTS. _____	
ADDITIONAL COMMENTS: <u>EARTHEN PIT - USE BACKHOE TO EXCAVATE & SAMPLE.</u>	

CLOSED

FIELD 418.1 CALCULATIONS								
SCALE	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)
								
0 1 FT								
PIT PERIMETER				PIT PROFILE				
								
OVM READING								
SAMPLE ID				FIELD HEADSPACE (ppm)				
1 @ 12'				750				
2 @								
3 @								
4 @								
5 @								
LAB SAMPLES								
SAMPLE ID				ANALYSIS				
1 @ 12'				TPH/BTE*				
				TIME				
				0900				

TRAVEL NOTES:	CALLOUT: <u>2/20/03 0940</u> ONSITE: <u>2/20/03 1115</u>
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CLIENT: BPBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: _____

COCR NO: _____

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 2 of 2LOCATION: NAME: RIDDLE C COM WELL #: B TYPE: SEPDATE STARTED: 2-20-03

DATE FINISHED: _____

QUAD/UNIT: B SEC: 29 TWP: 31N RNG: 9W PM: NM CNTY: SJ ST: NMENVIRONMENTAL
SPECIALIST: JCBQTR/FOOTAGE: NW/NECONTRACTOR: PAUL & SON (SANDY)EXCAVATION APPROX. 27 FT. x 24 FT. x 23 FT. DEEP. CUBIC YARDAGE: 550DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: L.F.LAND USE: FEE RANGE LEASE: ANM 91235 FEE FORMATION: PC

FIELD NOTES & REMARKS:

PIT LOCATED APPROXIMATELY 78 FT. N10°W FROM WELLHEAD.DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: <1000NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM - Per Fee Owner - will use 1000 ppm
7510 1000

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = 129.8 ppm
OVM CALIB. GAS = 250 ppm RF = 0.52
TIME: 0910 am/pm DATE: 3-18-03SOIL TYPE: SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____SOIL COLOR: yellow tanCOHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (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 SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - MINORHC ODOR DETECTED: YES / NO EXPLANATION - MINORSAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. _____ADDITIONAL COMMENTS: AT EQUIPMENT VERTICAL LIMITATION (23' BGS).

CLOSED

FIELD 418.1 CALCULATIONS

SCALE

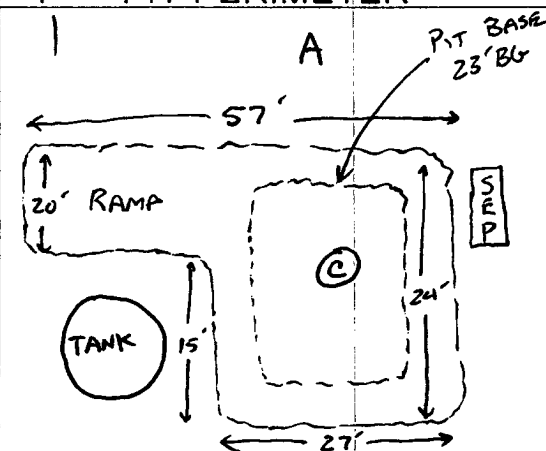


0 1 FT

N

PIT PERIMETER

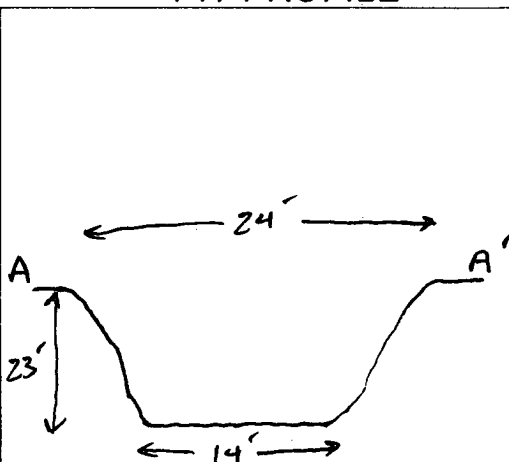
PIT PROFILE

OVM
READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
C @ 23'	343

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
C @ 23'	TPH/GRA	1500
		3/18/03

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

TRAVEL NOTES:

CALLOUT: 3/18/03 0900ONSITE: 3/18/03 1430

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Separator 1 @ 12'
Laboratory Number: 24913
Chain of Custody No: 10657
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

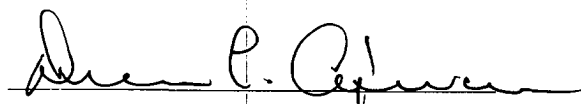
Project #: 94034-010
Date Reported: 02-23-03
Date Sampled: 02-21-03
Date Received: 02-21-03
Date Extracted: 02-23-03
Date Analyzed: 02-23-03
Analysis Requested: 8015 TPH

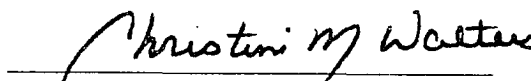
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,820	0.2
Diesel Range (C10 - C28)	1,210	0.1
Total Petroleum Hydrocarbons	3,030	0.2

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: Riddle C Com #8.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Separator 1 @ 12'	Date Reported:	02-23-03
Laboratory Number:	24913	Date Sampled:	02-21-03
Chain of Custody:	10657	Date Received:	02-21-03
Sample Matrix:	Soil	Date Analyzed:	02-23-03
Preservative:	Cool	Date Extracted:	02-23-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	44.2	1.8
Toluene	ND	1.7
Ethylbenzene	844	1.5
p,m-Xylene	3,000	2.2
o-Xylene	2,190	1.0
Total BTEX	6,080	

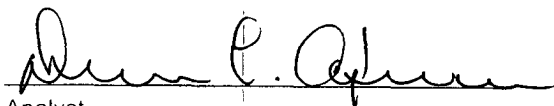
ND - Parameter not detected at the stated detection limit.

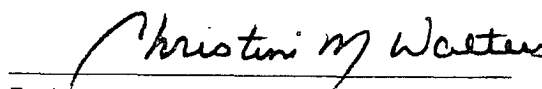
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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: Riddle C Com #8.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: C @ 23'
Laboratory Number: 25130
Chain of Custody No: 10734
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

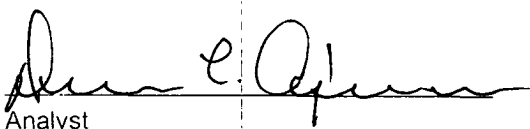
Project #: 94034-010
Date Reported: 03-21-03
Date Sampled: 03-18-03
Date Received: 03-19-03
Date Extracted: 03-19-03
Date Analyzed: 03-20-03
Analysis Requested: 8015 TPH

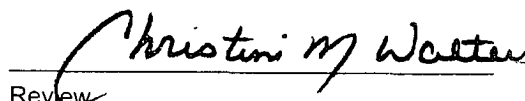
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	678	0.2
Diesel Range (C10 - C28)	55.8	0.1
Total Petroleum Hydrocarbons	734	0.2

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: Riddle C Com #8 - Sep.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 23'	Date Reported:	03-21-03
Laboratory Number:	25130	Date Sampled:	03-18-03
Chain of Custody:	10734	Date Received:	03-19-03
Sample Matrix:	Soil	Date Analyzed:	03-20-03
Preservative:	Cool	Date Extracted:	03-19-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	249	1.7
Ethylbenzene	948	1.5
p,m-Xylene	3,260	2.2
o-Xylene	2,470	1.0
Total BTEX	6,930	

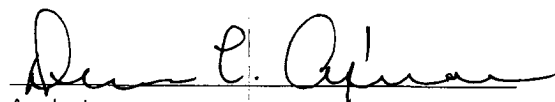
ND - Parameter not detected at the stated detection limit.

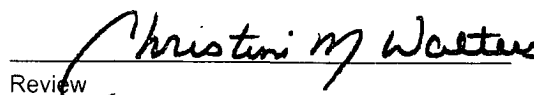
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

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: Riddle C Com #8 - Sep.


Analyst


Review

3004526827

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

LOCATION NO: _____

C.O.C. NO: 11282

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: RIDDLE C COM WELL #: 8 PITS: _____

DATE STARTED: _____

QUAD/UNIT: B SEC: 29 TWP: 31N RNG: 9W PM: NM CNTY: SJ ST: NMDATE FINISHED: 8/29/03

QTR/FOOTAGE: _____

CONTRACTOR: _____

ENVIRONMENTAL SPECIALIST: ICB

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 2440 ⁷⁰LAND USE: RANGE - FEELIFT DEPTH (ft): 2'

FIELD NOTES & REMARKS:

NMCD RANKING SCORE: 10 NMCD TPH CLOSURE STD: 1000 PPMDEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: <1000SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____

SOIL COLOR: _____

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

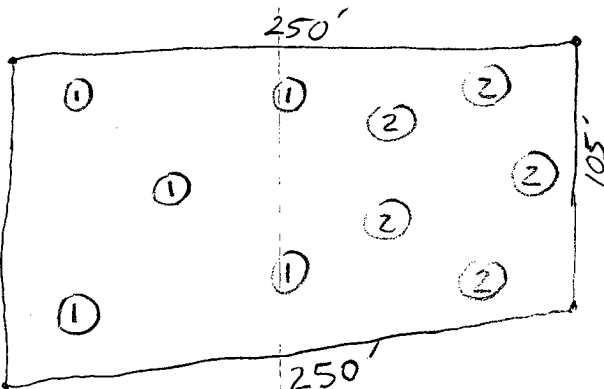
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARDMOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION: _____HC ODOR DETECTED: YES / NO EXPLANATION: _____SAMPLING DEPTHS (LANDFARMS): 12 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 5ADDITIONAL COMMENTS: COLLECT 2- each 5 pt SAMPLES 600 c.y.TRANSPORTED FROM JACQUEZ # 4 (D-4-31-9) - FEE USE.CLOSED

FIELD 418.1 CALCULATIONS

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

↑
N
1

SKETCH/SAMPLE LOCATIONS

OVM CALIB. READ: 53.3 ppm

OVM CALIB. GAS = 100 ppm; RF = 0.52

TIME: NOON am/pm DATE: 8/29/03

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
5-Pt #1	14.0	5-Pt #1	TPH	1120	ND
5-Pt #2	1.2	5-Pt #2	TPH	1140	ND

SCALE



0

FT

TRAVEL NOTES: CALLOUT: _____

ONSITE: 8/29/03 1100

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

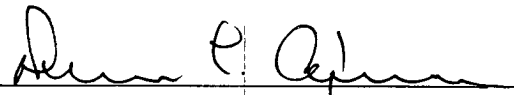
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-point Composite #1	Date Reported:	09-02-03
Laboratory Number:	26474	Date Sampled:	08-29-03
Chain of Custody No:	11282	Date Received:	08-29-03
Sample Matrix:	Soil	Date Extracted:	08-29-03
Preservative:	Cool	Date Analyzed:	09-02-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

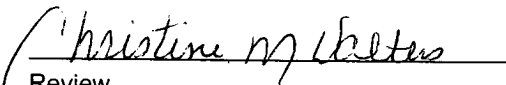
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Riddle C Com #8 - Landfarm.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

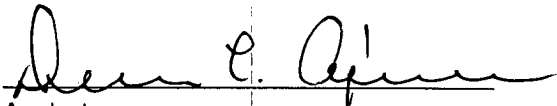
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-point Composite #2	Date Reported:	09-02-03
Laboratory Number:	26475	Date Sampled:	08-29-03
Chain of Custody No:	11282	Date Received:	08-29-03
Sample Matrix:	Soil	Date Extracted:	08-29-03
Preservative:	Cool	Date Analyzed:	09-02-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

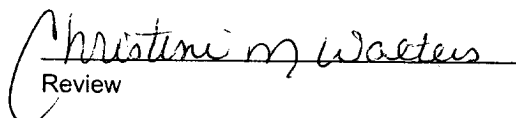
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Riddle C Com #8 - Landfarm.**


Analyst


Review