

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
20 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
March 12, 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>	
Address: <u>200 Energy Court, Farmington, NM 87410</u>	
Facility or well name: <u>SCHWERTFEGER A #2E</u> API #: <u>30-045-25498</u> U/L or Qtr/Qt <u>L</u> Sec <u>31</u> T <u>28N</u> R <u>8W</u>	
County: <u>San Juan</u> Latitude <u>36.61300</u> Longitude <u>107.72892</u> NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐	
Pit Type: Drilling ☐ Production ☐ Disposal ☒ SEPARATOR Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Volume _____ bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: <u>N/A</u> 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) <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: 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.

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: 06/06/04

Printed Name/Title: Jeff Blagg - P.E. # 11607 Signature: [Signature]

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:

Date: AUG 10 2007

Printed Name/Title: Deputy Oil & Gas Inspector, District #3 Signature: [Signature]

PAGE 3 OF 3

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81409</u> COCR NO: <u>12242</u>
-------------------	---	--

FIELD REPORT: PIT CLOSURE VERIFICATION

 PAGE No. 1 of 1

 LOCATION: NAME SCHWERDTFEGER A WELL # 2/E TYPE: SEP
 QUAD/UNIT L SEC 31 TWP 28N RNG 8W PM: NM CNTY: SJ ST: NM
 QTR/FOOTAGE: 1520'S/1025'W NW/1SW CONTRACTOR: HD (JUAQUIM)

 DATE STARTED 6-2-04
 DATE FINISHED 6-2-04
 ENVIRONMENTAL SPECIALIST JCS

 EXCAVATION APPROX. 15 FT. x 15 FT. x 9 FT. DEEP. CUBIC YARDAGE: 40

 DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: L.F.

 LAND USE: RANGE - BURN LEASE: SF 079319 FORMATION: DK

 FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 75 FT. N 9 E 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 = 52.6 ppm
 OVM CALIB GAS = 100 ppm RF = 0.52
 TIME 1030 (am/pm) DATE 6-2-04

 SOIL TYPE: SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK @ 9' BG
 SOIL COLOR

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 - Grac - Black

 HC ODOR DETECTED YES / NO EXPLANATION - MODERATE

SAMPLE TYPE GRAB / COMPOSITE - # OF PTS

 ADDITIONAL COMMENTS: 15' x 15' x 3" DWD EARTHEN PIT. EXCAVATE TO 9' BG
BEDROCK BOTTOM
W/ BACKFILL HIT FIRM BEDROCK SANDSTONE
RISK ASSESSED

FIELD 418.1 CALCULATIONS

SCALE

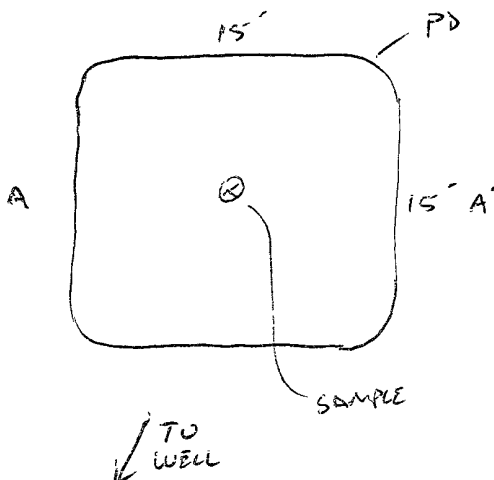


0 FT

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

PIT PERIMETER

PIT PROFILE

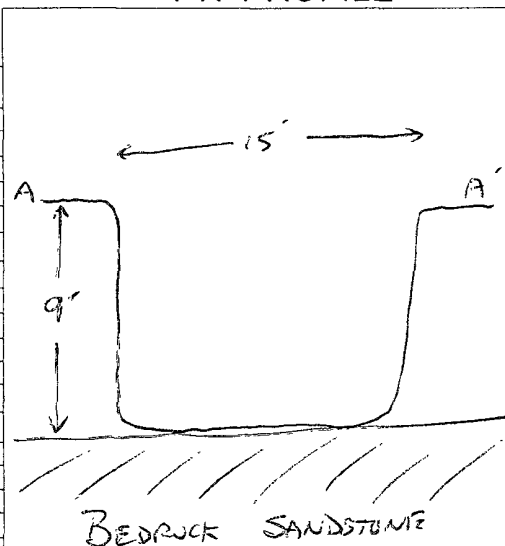


OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 9'	224
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
1 @ 9'	TPH	1525
	BTEX	
	CL	

HIDE CHLORIDE

 D = PIT DEPRESSION, BG = BELOW GRADE, B = BELOW
 H = TEST HOLE, ~ = APPROX, TB = TANK BOTTOM

TRAVEL NOTES:

 CALLOUT: 6-2-04

 ONSITE: 6-2-04

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

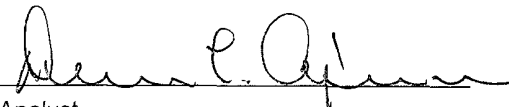
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 9'	Date Reported:	06-06-04
Laboratory Number:	28919	Date Sampled:	06-02-04
Chain of Custody No:	12248	Date Received:	06-03-04
Sample Matrix:	Soil	Date Extracted:	06-04-04
Preservative:	Cool	Date Analyzed:	06-06-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

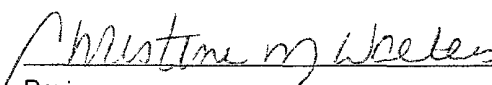
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	72.8	0.2
Diesel Range (C10 - C28)	11.2	0.1
Total Petroleum Hydrocarbons	84.0	0.2

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: **Schwerdtfeger A #2 E 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:	1 @ 9'	Date Reported:	06-06-04
Laboratory Number:	28919	Date Sampled:	06-02-04
Chain of Custody:	12248	Date Received:	06-03-04
Sample Matrix:	Soil	Date Analyzed:	06-06-04
Preservative:	Cool	Date Extracted:	06-04-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	23.6	1.8
Toluene	551	1.7
Ethylbenzene	153	1.5
p,m-Xylene	655	2.2
o-Xylene	277	1.0
Total BTEX	1,660	

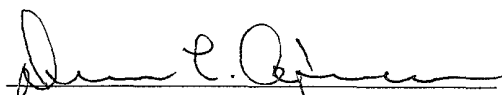
ND - Parameter not detected at the stated detection limit.

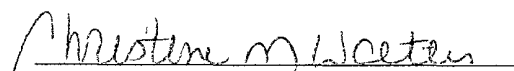
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: **Schwerdtfeger A #2 E Sep. Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Total Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 9'	Date Reported:	06-04-04
Lab ID#:	28919	Date Sampled:	06-02-04
Sample Matrix:	Soil	Date Received:	06-03-04
Preservative:	Cool	Date Analyzed:	06-04-04
Condition:	Cool and Intact	Chain of Custody:	12248

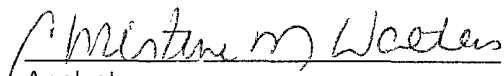
Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride

828

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

Comments: Schwerdtfeger A #2E Sep. Pit.


Analyst


Review

CLIENT: BP**BLAGG ENGINEERING, INC.**
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO 81409C.O.C NO 14633**FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION**LOCATION: NAME: SCHWEDTFEGER A WELL# 2E PITS: BLW SEP.DATE STARTED 5/31/06QUAD/UNIT: L SEC. 31 TWP: 28N RNG: 8W PM: NM CNTY: ST ST: NM

DATE FINISHED _____

QTR/FOOTAGE NW/5W

CONTRACTOR: _____

ENVIRONMENTAL
SPECIALIST NV**SOIL REMEDIATION:**SSREMEDIATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: _____

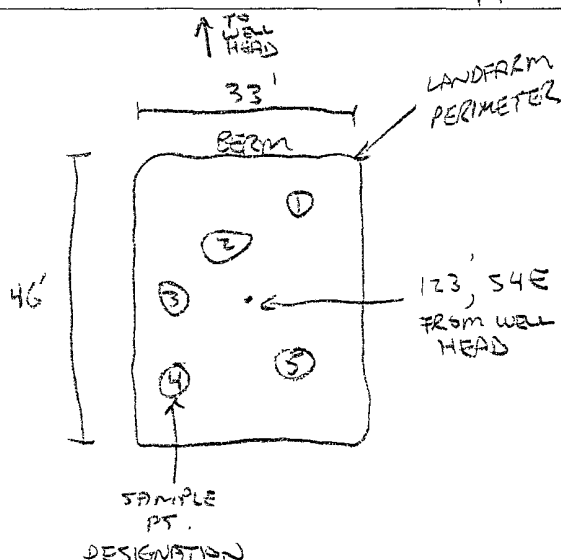
LAND USE: RANGE - BLWLIFT DEPTH (ft): 1**FIELD NOTES & REMARKS:**DEPTH TO GROUNDWATER >100'NEAREST SURFACE WATER >1,000'NEAREST WATER SOURCE >1,000'NMOC D RANKING SCORE: 0NMOC D TPH CLOSURE STD 5,000 PPMSOIL TYPE. SAND (SILTY SAND) SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____SOIL COLOR: DR. YELL. BROWNCOHESION (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 - _____HC ODOR DETECTED: YES (NO) EXPLANATION - _____SAMPLING DEPTHS (LANDFARMS): 4 - 8 (INCHES)SAMPLE TYPE. GRAB (COMPOSITE) # OF PTS 5

ADDITIONAL COMMENTS. _____

CLOSED**SKETCH/SAMPLE LOCATIONS**OVM CALIB. READ. = 52.8 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 9:55 am/pm DATE: 5/30/06**OVM RESULTS****LAB SAMPLES**

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (GDIAR)	1340	1.1

P.C. - 6/2/04

SCALE

0

FT

TRAVEL NOTES: CALLOUT: N/AONSITE: 5/31/06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

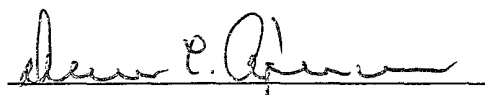
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	06-02-06
Laboratory Number:	37265	Date Sampled:	05-31-06
Chain of Custody No:	14633	Date Received:	05-31-06
Sample Matrix:	Soil	Date Extracted:	06-01-06
Preservative:	Cool	Date Analyzed:	06-02-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

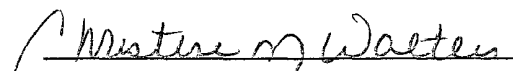
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.1	0.1
Total Petroleum Hydrocarbons	1.1	0.2

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: **Schwerdtfeger A #2E Landfarm 5 Pt. Composite Sample.**


Analyst


Review

12248

san juan reproduction 578-129

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:	06-06-TPH QA/QC	Date Reported:	06-06-04
Laboratory Number:	28901	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-06-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	0.10%	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

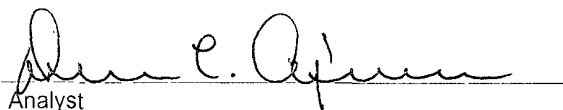
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	47.1	46.9	0.4%	0 - 30%
Diesel Range C10 - C28	108	107	0.3%	0 - 30%

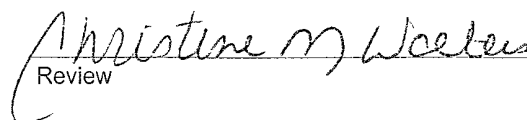
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	47.1	250	297	99.8%	75 - 125%
Diesel Range C10 - C28	108	250	357	99.8%	75 - 125%

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 28901 - 28907, 28918 - 28920.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	06-06-BTEX QA/QC	Date Reported:	06-06-04
Laboratory Number:	28903	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-06-04
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	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
-------------------------	--------	-----------	-------	--------------	---------------

Benzene	117	118	0.8%	0 - 30%	1.8
Toluene	916	897	2.0%	0 - 30%	1.7
Ethylbenzene	499	489	2.0%	0 - 30%	1.5
p,m-Xylene	2,030	2,050	1.0%	0 - 30%	2.2
o-Xylene	738	744	0.8%	0 - 30%	1.0

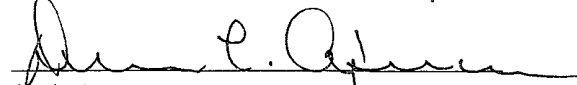
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
---------------------	--------	---------------	---------------	------------	--------------

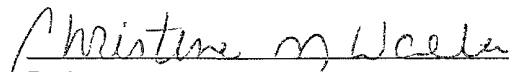
Benzene	117	50.0	166	99.8%	39 - 150
Toluene	916	50.0	964	99.8%	46 - 148
Ethylbenzene	499	50.0	548	99.8%	32 - 160
p,m-Xylene	2,030	100	2,120	99.5%	46 - 148
o-Xylene	738	50.0	787	99.8%	46 - 148

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 28903 - 28906, 28919 - 28920.


Analyst


Review

CHAIN OF CUSTODY RECORD

14633

Client / Project Name BLAKE / BP			Project Location SCHWEDTFEGER A # 2E		ANALYSIS / PARAMETERS									
Sampler: NV			Client No. 94034-010		No. of Containers TPH (80158)								Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									PREPARED Cool	
													5 PT. COMPOSITE SAMPLE	
1E-1	5/31/06	1340	37265	SOIL	1	✓							LANDFARM	
Relinquished by: (Signature) <i>[Signature]</i>			Date 5/31/06	Time 1510	Received by: (Signature) <i>[Signature]</i>			Date 5/31/06	Time 1510					
Relinquished by: (Signature) <i>[Signature]</i>					Received by: (Signature) <i>[Signature]</i>									
Relinquished by: (Signature)					Received by: (Signature)									
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt				
											Y	N	N/A	
										Received Intact	✓			
										Cool - Ice/Blue Ice	✓			

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:	06-02-06 QA/QC	Date Reported:	06-02-06
Laboratory Number:	37261	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-02-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	02-04-05	1.0087E+003	1.0097E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.0069E+003	1.0089E+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

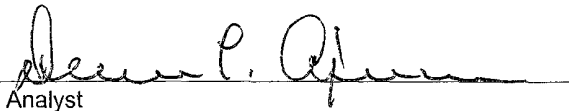
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	14.8	14.7	0.7%	0 - 30%
Diesel Range C10 - C28	2,000	1,980	1.0%	0 - 30%

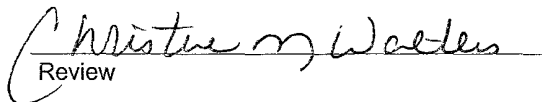
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	14.8	250	264	99.8%	75 - 125%
Diesel Range C10 - C28	2,000	250	2,240	99.6%	75 - 125%

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 37261 - 37265, 37304 - 37307.


Analyst


Review