

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
10 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>HUGHES B #4A</u>	API #: <u>30-045-22717</u> U-L or Qtr: Qtr <u>C</u> Sec <u>20</u> T <u>29N</u> R <u>8W</u>						
County: <u>San Juan</u> Latitude: <u>36.71475</u> Longitude: <u>107.70202</u> NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐							
Pit Type: Drilling ☐ Production ☐ Disposal ☒ <u>PRODUCTION TANK</u> Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ <u>STEEL TANK</u> Liner type: Synthetic ☐ Thickness <u> </u> mil Clay ☐ Volume <u> </u> bbl	Below-grade tank Volume: <u> </u> bbl Type of fluid: <u> </u> Construction material: <u>N/A</u> Double-walled with leak detection? Yes ☐ If not, explain why not: <u> </u>						
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	<table border="1"><tr><td>Less than 50 feet</td><td>(20 points)</td></tr><tr><td>50 feet or more, but less than 100 feet</td><td>(10 points) <u>0</u></td></tr><tr><td>100 feet or more</td><td>(0 points)</td></tr></table>	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)
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.)	<table border="1"><tr><td>Yes</td><td>(20 points)</td></tr><tr><td>No</td><td>(0 points) <u>0</u></td></tr></table>	Yes	(20 points)	No	(0 points) <u>0</u>		
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.)	<table border="1"><tr><td>Less than 200 feet</td><td>(20 points)</td></tr><tr><td>200 feet or more, but less than 1000 feet</td><td>(10 points) <u>0</u></td></tr><tr><td>1000 feet or more</td><td>(0 points)</td></tr></table>	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)
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: 04/30/04

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]

CLIENT: BP

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

LOCATION NO: B1368
COCR NO: 12053

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: HUGHES B WELL#: 4A TYPE: PROD
QUAD/UNIT: C SEC: 20 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1180'N/1630'W NE/NW CONTRACTOR: SIERRA (CAL)

DATE STARTED 4-28-04
DATE FINISHED 4-28-04
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: 0

DISPOSAL FACILITY: NA REMEDIATION METHOD: CLOSE AS IS

LAND USE: RANGE - Burn LEASE: SF 078046 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 111 FT. N33W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:
OVM CALIB. READ. = 53.0 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 1220 am/pm DATE: 4-28-04

SOIL TYPE: SAND / SILTY SAND / SILT (SILTY CLAY) / CLAY / GRAVEL / OTHER
SOIL COLOR: GRAY / GREEN
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 STREAKING
HC ODOR DETECTED: (YES) NO EXPLANATION - MODERATE

CLOSED

SAMPLE TYPE GRAB / COMPOSITE - # OF PTS.
ADDITIONAL COMMENTS: 9' x 9' x 2' DEEP EARTHEN PIT. USE BACKHOE TO DIG TEST TRENCH TO 5' BG. OBVIOUS STAIN & HC ODOR. SAMPLE @ 5' DEPTH & BACKFILL W/so.

SCALE
0 FT

FIELD 418.1 CALCULATIONS

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 @ 5'	306
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
1 @ 5'	TPH/BTEX	1145
	CALL 42	
(ALL PASSED)		

TH 5' BG

PD 2' BG

TO WELL

GRAY STREAKING

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

TRAVEL NOTES: CALLOUT: 4-28-04 0900 ONSITE: 4-28-04 1125

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

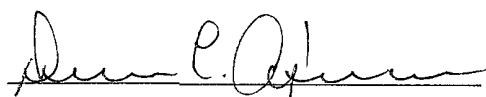
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 5'	Date Reported:	04-30-04
Laboratory Number:	28527	Date Sampled:	04-28-04
Chain of Custody No:	12053	Date Received:	04-28-04
Sample Matrix:	Soil	Date Extracted:	04-29-04
Preservative:	Cool	Date Analyzed:	04-30-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

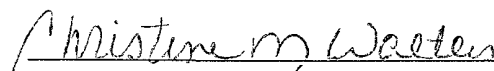
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,210	0.2
Diesel Range (C10 - C28)	118	0.1
Total Petroleum Hydrocarbons	1,330	0.2

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: **Hughes B #4A Prod. 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 @ 5'	Date Reported:	04-30-04
Laboratory Number:	28527	Date Sampled:	04-28-04
Chain of Custody:	12053	Date Received:	04-28-04
Sample Matrix:	Soil	Date Analyzed:	04-30-04
Preservative:	Cool	Date Extracted:	04-29-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	113	1.8
Toluene	1,820	1.7
Ethylbenzene	695	1.5
p,m-Xylene	2,270	2.2
o-Xylene	1,070	1.0
Total BTEX	5,970	

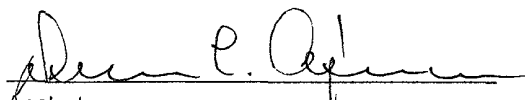
ND - Parameter not detected at the stated detection limit.

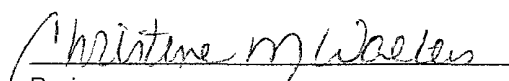
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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: Hughes B #4A Prod. Pit.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Total Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 5'	Date Reported:	04-30-04
Lab ID#:	28527	Date Sampled:	04-28-04
Sample Matrix:	Soil	Date Received:	04-28-04
Preservative:	Cool	Date Analyzed:	04-30-04
Condition:	Cool and Intact	Chain of Custody:	12053

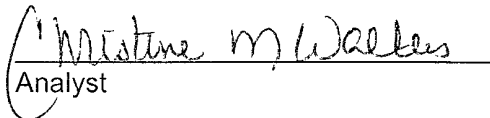
Parameter	Concentration (mg/L)
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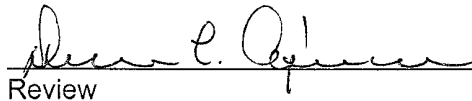
Total Chloride

24.0

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

Comments: Hughes B #4A Prod. Pit.


Analyst


Review

CLIENT:

BP

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

LOCATION NO.

81368

C.O.C. NO.

14631

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: HUGHES B WELL #: 4A PITS: BLW
QUAD/UNIT C SEC: 20 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE/NW CONTRACTOR:

DATE STARTED: 5/18/06

DATE FINISHED:

ENVIRONMENTAL

SPECIALIST: NV

SOIL REMEDIATION:

35

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE:

LAND USE: RANGE - BurnLIFT DEPTH (ft): 1

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100'NEAREST SURFACE WATER: >1,000'

NEAREST WATER SOURCE:

>1,000'NMOCD RANKING SCORE: 0NMOCD TPH CLOSURE STD: 5,000 PPMSOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

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 PLASTICDENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARDMOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDCLOSEDDISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION -HC ODOR DETECTED: YES NO EXPLANATION -SAMPLING DEPTHS (LANDFARMS): 6-8 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 5

ADDITIONAL COMMENTS:

SKETCH/SAMPLE LOCATIONS

OVM CALIB. READ. = 53.1 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 10:25 am/pm DATE: 5/18/06

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)
LF-1	0.0

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (SOIS)	1100	ND

SCALE



0

FT

PC - 4/28/04

TRAVEL NOTES: CALLOUT: N/AONSITE: 5/18/06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

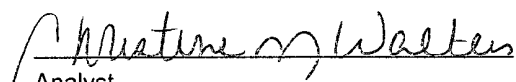
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Hughes B #4A	Date Reported:	05-19-06
Laboratory Number:	37162	Date Sampled:	05-18-06
Chain of Custody No:	14631	Date Received:	05-18-06
Sample Matrix:	Soil	Date Extracted:	05-19-06
Preservative:	Cool	Date Analyzed:	05-19-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

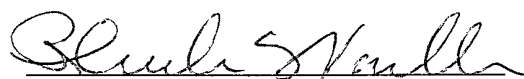
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Hughes Lease Landfarm 5 Pt. Composite Sample.**


Analyst


Review

1205.

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:	04-30-TPH QA/QC	Date Reported:	04-30-04
Laboratory Number:	28527	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-04
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

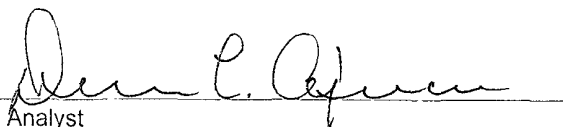
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	1,210	1,200	0.8%	0 - 30%
Diesel Range C10 - C28	118	117	0.3%	0 - 30%

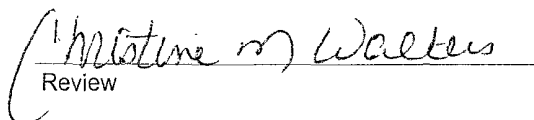
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1,210	250	1,450	99.3%	75 - 125%
Diesel Range C10 - C28	118	250	367	99.8%	75 - 125%

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 28527 - 28529, 28537 - 28539.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-30-BTEX QA/QC	Date Reported:	04-30-04
Laboratory Number:	28527	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-04
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

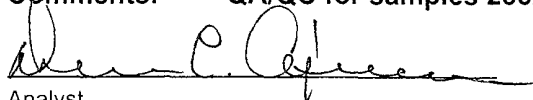
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	113	116	2.6%	0 - 30%	1.8
Toluene	1,820	1,790	1.6%	0 - 30%	1.7
Ethylbenzene	695	681	2.0%	0 - 30%	1.5
p,m-Xylene	2,270	2,330	2.6%	0 - 30%	2.2
o-Xylene	1,070	1,090	1.9%	0 - 30%	1.0

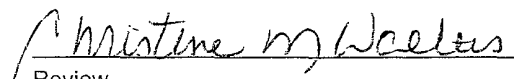
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	113	50.0	162	99.3%	39 - 150
Toluene	1,820	50.0	1,860	99.5%	46 - 148
Ethylbenzene	695	50.0	744	99.8%	32 - 160
p,m-Xylene	2,270	100	2,360	99.6%	46 - 148
o-Xylene	1,070	50.0	1,110	99.1%	46 - 148

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 28527 - 28529, 28532 - 28535, 28537 - 28538.


Analyst


Review

CHAIN OF CUSTODY RECORD

14631

Client / Project Name BLAGG/BP			Project Location HUGHES LEASE		ANALYSIS / PARAMETERS								
Sampler: NV			Client No. 94034-010		No. of Containers TPH (8058)							Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL	
												5 PT. COMPOSITE SAMPLES	
HUGHES 8 #8A	5/18/06	1100	37162	SOIL	1	✓						LANDFARM	
HUGHES #5	5/18/06	1200	37163	SOIL	1	✓						LANDFARM	
HUGHES LS #17	5/18/06	1300	37164	SOIL	1	✓						LANDFARM	
HUGHES #7E	5/18/06	1345	37165	SOIL	1	✓						LANDFARM	
					SOIL		✓					LANDFARM	
Relinquished by: (Signature) [Signature]			Date 5/18/06	Time 1503	Received by: (Signature) [Signature]						Date 5/18/06	Time 1503	
Relinquished by: (Signature)					Received by: (Signature)								
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:	05-19-06 QA/QC	Date Reported:	05-19-06
Laboratory Number:	37160	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-19-06
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	2.6823E+003	2.6849E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	2.9902E+003	2.9962E+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

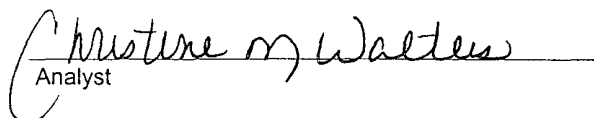
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.3	0.3	0.0%	0 - 30%
Diesel Range C10 - C28	352	350	0.6%	0 - 30%

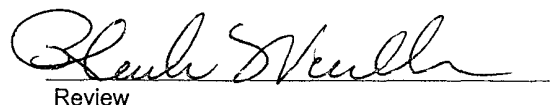
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.3	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	352	250	601	99.8%	75 - 125%

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 37160, 37162 - 37166.


Analyst


Review