

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: <u>Dugan Production Corp</u> Telephone: <u>(505)325-1821</u> e-mail address: _____		
Address: <u>P.O. Box 420, Farmington, New Mexico 87401</u>		
Facility or well name: <u>April Surprise No. 2</u> API #: <u>30-045-23892</u> U/L or Qtr/Qtr <u>L</u> Sec <u>30</u> T <u>24N</u> R <u>9W</u>		
County: <u>San Juan</u> Latitude <u>36.28291</u> Longitude <u>107.83649</u> 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 <u>53 ±</u> bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not. _____	RCVD DEC14'06 OIL CONS. DIV. DIST. 3
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) 0 (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 No	(20 points) (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 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) 0 (0 points)
	Ranking Score (Total Points)	0

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:
10' x 10' x 3'± deep unlined production pit, center located at approximately 21 feet North 28° East of wellhead.
Use backhoe to excavate impacted soils, final dimensions approximately 18' x 18' x 10' deep (105± yards). Submit 5-point composite sample from excavation walls and base for laboratory testing. Firm bedrock shalestone beginning at 6 feet below surface. Landfarm soils on-site. Sample landfarm soils on 10/30/06 (10-point composite) and submit for laboratory testing. Landfarm soils tested below closure standards. Propose to replace landfarm soils back into pit excavation and close site as is.

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: December 11, 2006

Printed Name/Title Jeffrey C Blagg, Agent

Signature Jeffrey C. Blagg

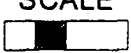
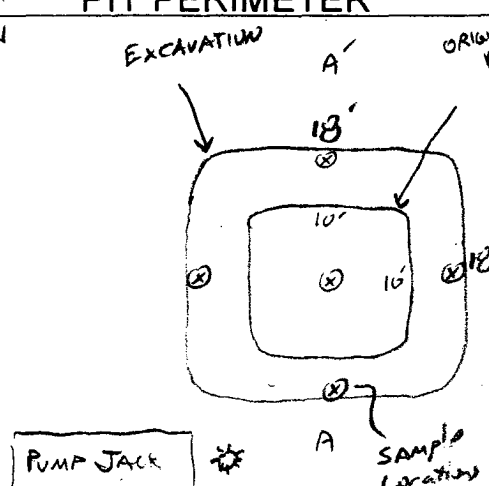
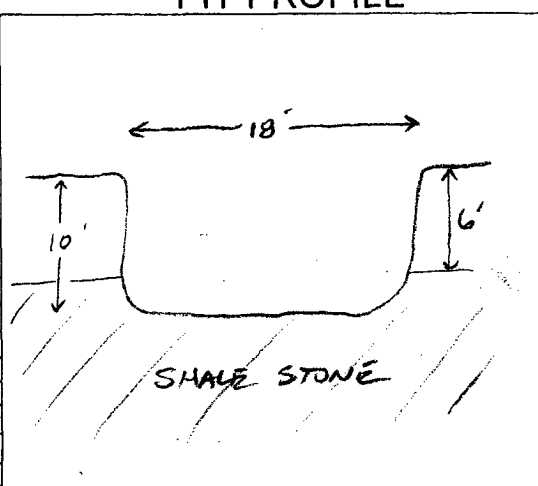
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

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

Signature Brian R. Roll

Date: DEC 14 2006

CLIENT: <u>DUGAN</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ COCR NO: <u>1641</u>																																								
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>APRIL SURPRISE</u> WELL#: <u>2</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>L</u> SEC: <u>30</u> TWP: <u>24N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1850 FSL x 800 FUL</u> CONTRACTOR: <u>DPC-TAYLOR</u>		DATE STARTED: <u>10-4-06</u> DATE FINISHED: <u>10-30-06</u> ENVIRONMENTAL SPECIALIST: <u>JCB</u>																																								
EXCAVATION APPROX. <u>18</u> FT. x <u>18</u> FT. x <u>10</u> FT. DEEP. CUBIC YARDAGE: <u>105±</u>																																										
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>L.F.</u>																																										
LAND USE: <u>RANGE - BLM</u> LEASE: <u>NM-4958</u> FORMATION: <u>GAL</u>																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>21</u> FT. <u>N28E</u> FROM WELLHEAD.																																										
DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u>																																										
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																										
SOIL AND EXCAVATION DESCRIPTION:																																										
SOIL TYPE: SAND <u>(SILTY SAND)</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>SHALESTONE @ 6'</u> SOIL COLOR: _____ COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE <u>HIGHLY COHESIVE</u> CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE <u>VERY DENSE</u> PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE: DRY <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES <u>(NO)</u> EXPLANATION: _____ HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION: <u>V. MINOR</u> SAMPLE TYPE: GRAB / <u>COMPOSITE</u> # OF PTS. <u>5</u> ADDITIONAL COMMENTS: <u>10 x 10 x 3' UNLINED PIT w/ HEAVY STAINING.</u> <u>USE BACKHOPE TO REMOVE IMPACTED SOILS & LANDFARM ON SITE.</u>		OVM CALIB. READ. = <u>53.8</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>1000</u> am/pm DATE: <u>10/30</u>																																								
SCALE  0 FT <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																																
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P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																																										
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>10-4-06</u>																																										

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

LOCATION NO: _____

C.D.C. NO: 1641

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: APRIL SURPRISE WELL #: 2 PITS: SEP
QUAD/UNIT: L SEC: 30 TWP: 24N RNG: 9W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1850 FSL x 800 FWL CONTRACTOR: DPC-TAYLORDATE STARTED: 10-4-06
DATE FINISHED: 10-30-06ENVIRONMENTAL
SPECIALIST: JCB

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 105 ±LAND USE: RANGE-BLMLIFT DEPTH (ft): 0.5 ±

FIELD NOTES & REMARKS:

NMCD RANKING SCORE: 0 NMCD TPH CLOSURE STD: 5000 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 COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

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

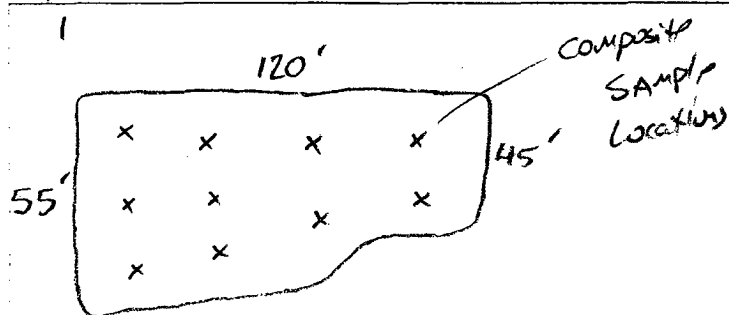
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - PATCHES ACROSS L.F.HC ODOR DETECTED: (YES) / NO EXPLANATION - MODERATESAMPLING DEPTHS (LANDFARMS): 4 (INCHES)SAMPLE TYPE: GRAB / (COMPOSITE) # OF PTS. 10

ADDITIONAL COMMENTS: _____

FIELD 418.1 CALCULATIONS

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

↑
N SKETCH/SAMPLE LOCATIONSOVM CALIB. READ. 53.8 ppm

OVM CALIB. GAS = 100 ppm; RF = 0.52

TIME: 1000 (am) pm DATE: 10/30/06

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
10-Point	138	10-Point	TPH	1035	381
			BTEX	"	.534
			BENZ	"	0.0067
			CL-	"	548

SCALE



0 FT

TRAVEL NOTES: CALLOUT: _____

ONSITE: 10/30/06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

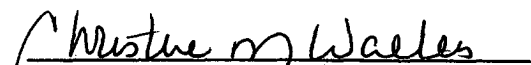
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	April Surprise #2 SEP	Date Reported:	11-03-06
Laboratory Number:	38987	Date Sampled:	10-30-06
Chain of Custody No:	1641	Date Received:	10-31-06
Sample Matrix:	Soil	Date Extracted:	11-01-06
Preservative:	Cool	Date Analyzed:	11-02-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	17.8	0.2
Diesel Range (C10 - C28)	220	0.1
Total Petroleum Hydrocarbons	238	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: Pit Closures 5-Point Comp @ 10'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	April Surprise #2 SEP	Date Reported:	11-03-06
Laboratory Number:	38987	Date Sampled:	10-30-06
Chain of Custody:	1641	Date Received:	10-31-06
Sample Matrix:	Soil	Date Analyzed:	11-02-06
Preservative:	Cool	Date Extracted:	11-01-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	23.5	1.7
Ethylbenzene	19.9	1.5
p,m-Xylene	154	2.2
o-Xylene	40.1	1.0
Total BTEX	238	

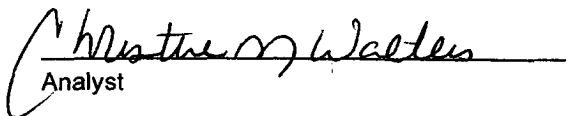
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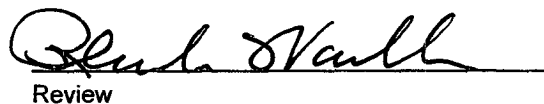
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Pit Closures 5-Point Comp @ 10'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	April Surprise #2 SEP	Date Reported:	11-02-06
Lab ID#:	38987	Date Sampled:	10-30-06
Sample Matrix:	Soil	Date Received:	10-31-06
Preservative:	Cool	Date Analyzed:	11-02-06
Condition:	Cool and Intact	Chain of Custody:	1641

Parameter

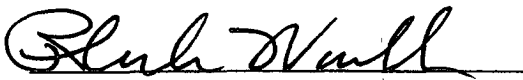
Concentration (mg/Kg)

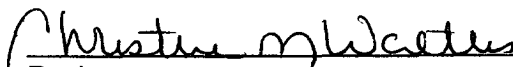
Total Chloride

258

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

Comments: Pit Closures 5-Point Comp @ 10'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

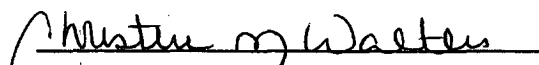
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	April Surprise #2 LF	Date Reported:	11-03-06
Laboratory Number:	38988	Date Sampled:	10-30-06
Chain of Custody No:	1641	Date Received:	10-31-06
Sample Matrix:	Soil	Date Extracted:	11-01-06
Preservative:	Cool	Date Analyzed:	11-02-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

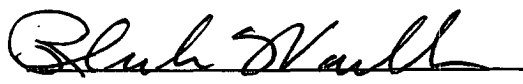
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	34.6	0.2
Diesel Range (C10 - C28)	346	0.1
Total Petroleum Hydrocarbons	381	0.2

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: Pit Closures 10-Point Comp.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	April Surprise #2 LF	Date Reported:	11-03-06
Laboratory Number:	38988	Date Sampled:	10-30-06
Chain of Custody:	1641	Date Received:	10-31-06
Sample Matrix:	Soil	Date Analyzed:	11-02-06
Preservative:	Cool	Date Extracted:	11-01-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.7	1.8
Toluene	28.4	1.7
Ethylbenzene	28.2	1.5
p,m-Xylene	373	2.2
o-Xylene	97.3	1.0
Total BTEX	534	

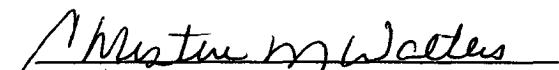
ND - Parameter not detected at the stated detection limit.

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: Pit Closures 10-Point Comp.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	April Surprise #2 LF	Date Reported:	11-02-06
Lab ID#:	38988	Date Sampled:	10-30-06
Sample Matrix:	Soil	Date Received:	10-31-06
Preservative:	Cool	Date Analyzed:	11-02-06
Condition:	Cool and Intact	Chain of Custody:	1641

Parameter

Concentration (mg/Kg)

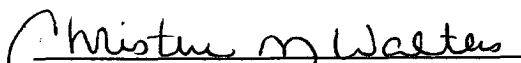
Total Chloride

548

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

Comments: Pit Closures 10-Point Comp.


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:	11-02-06 QA/QC	Date Reported:	11-03-06
Laboratory Number:	38985	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-02-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	O-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	1.6200E+003	1.6216E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	1.3298E+003	1.3325E+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

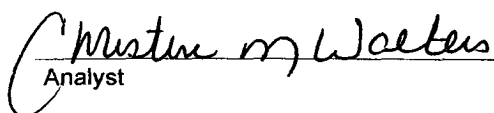
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	2.3	2.3	0.0%	0 - 30%

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	2.3	250	251	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 38985 - 38989 and 39012 - 39014.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-02-BTEX QA/QC	Date Reported:	11-03-06
Laboratory Number:	38985	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-02-06
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	4.3404E+007	4.3491E+007	0.2%	ND	0.2
Toluene	5.6963E+007	5.7077E+007	0.2%	ND	0.2
Ethylbenzene	2.6434E+007	2.6487E+007	0.2%	ND	0.2
p,m-Xylene	1.0438E+008	1.0459E+008	0.2%	ND	0.2
o-Xylene	4.5793E+007	4.5884E+007	0.2%	ND	0.1

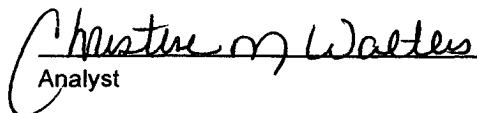
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	7.0	6.9	1.4%	0 - 30%	1.7
Ethylbenzene	1.6	1.6	0.0%	0 - 30%	1.5
p,m-Xylene	4.6	4.4	4.3%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100.0%	39 - 150
Toluene	7.0	50.0	56.9	99.8%	46 - 148
Ethylbenzene	1.6	50.0	51.4	99.6%	32 - 160
p,m-Xylene	4.6	100	104	99.0%	46 - 148
o-Xylene	ND	50.0	49.9	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 38985 - 38989 and 39012 - 39014.


Analyst


Review

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ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615