

NM1 - 9

MONITORING REPORTS

YEAR(S):

2007 - 2002



Key Energy Services
1301 McKinney
Suite 1800
Houston, Texas 77010

Telephone: 713.651.4300
Facsimile: 713.652.4005
www.keyenergy.com

January 22, 2007 Fourth Quarter 2006

Wayne Price
Environmental Bureau Chief
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Brandon Powell
Environmental Specialist
New Mexico OCD
Aztec, New Mexico 87410

RECEIVED

FEB 01 2007

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: Key Energy Landfarm Subsurface Report

Mr. Price:

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
If you require additional information, please contact me at the Facility
334-6186 or email at mtalovich@keyenergy.com

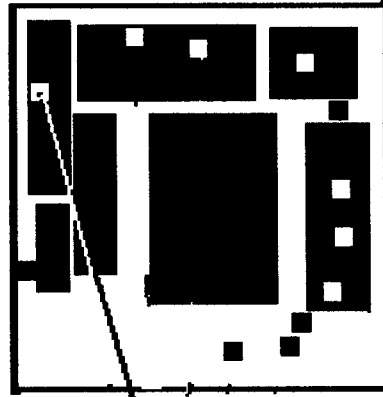
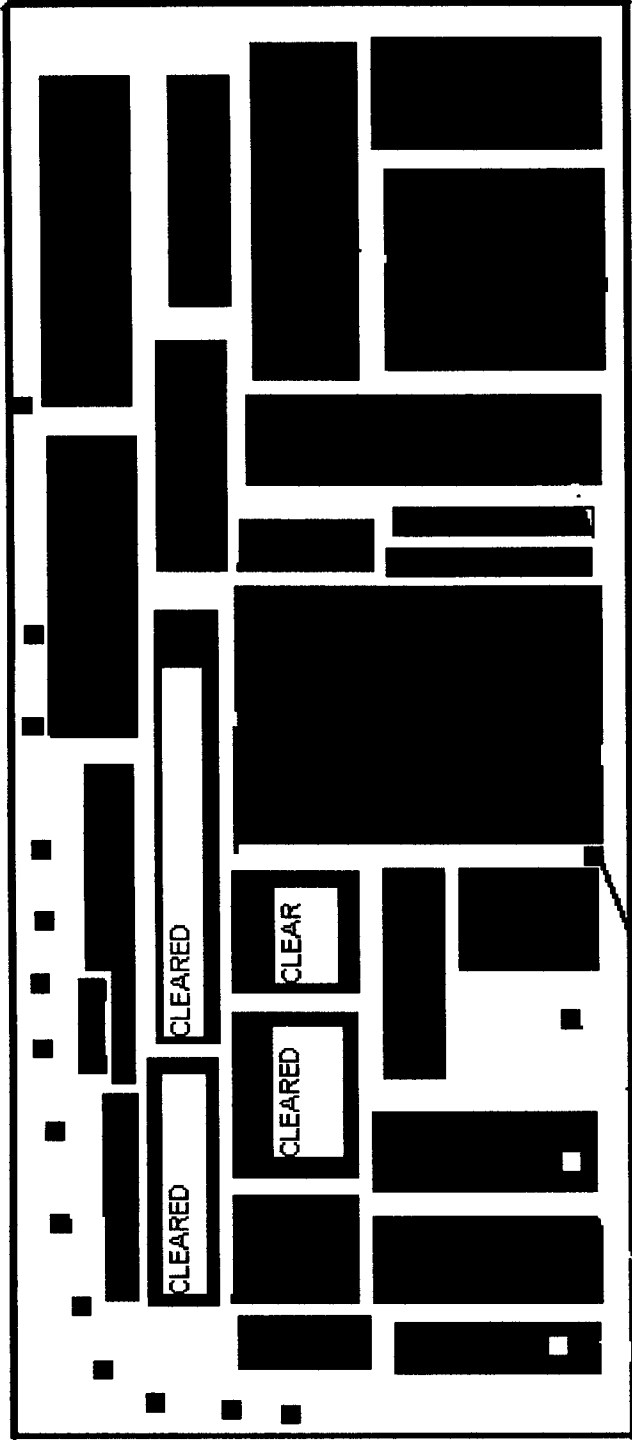
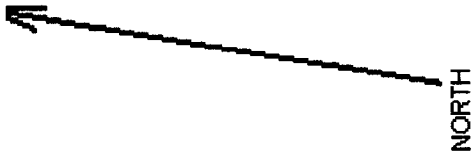
Best Regards:

A handwritten signature in black ink, appearing to read "Michael Talovich", written over a horizontal line.

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. WA Baker Key Energy
Mr. Brandon Powell NMOCD

JANUARY 19, 2007



CELL #2 SAMPLE POINT

CELL #1 SAMPLE POINT

M. P. D. 01-22-07

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

RECEIVED
JAN 18 2007

BY:.....

January 16, 2007

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Dear Mr. Talovich,

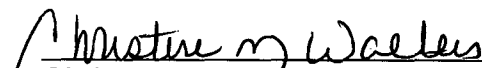
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 01/11/07, and received by the Envirotech laboratory on 01/12/07 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015, BTEX per USEPA Method 8021, RCRA 8 List Metals and Cation / Anion Analysis.

The samples were documented on Envirotech Chain of Custody No. 1926. The samples were assigned Laboratory Nos. 39713 (Cell #1) and 39714 (Cell #2) for tracking purposes.

The samples were analyzed 01/15/07 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Key Energy	Project #:	98065-007
Sample ID:	Cell #1	Date Reported:	01-15-07
Laboratory Number:	39713	Date Sampled:	01-11-07
Chain of Custody No:	1926	Date Received:	01-12-07
Sample Matrix:	Soil	Date Extracted:	01-12-07
Preservative:	Cool	Date Analyzed:	01-15-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

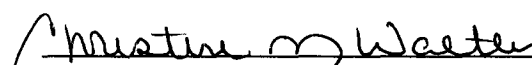
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Key Energy	Project #:	98065-007
Sample ID:	Cell #2	Date Reported:	01-15-07
Laboratory Number:	39714	Date Sampled:	01-11-07
Chain of Custody No:	1926	Date Received:	01-12-07
Sample Matrix:	Soil	Date Extracted:	01-12-07
Preservative:	Cool	Date Analyzed:	01-15-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

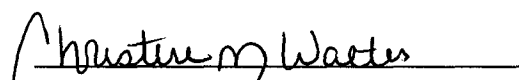
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm**


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:	01-15-07 QA/QC	Date Reported:	01-15-07
Laboratory Number:	39708	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-07
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	9.9054E+002	9.9153E+002	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	9.9465E+002	9.9664E+002	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

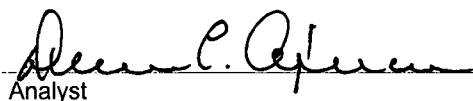
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

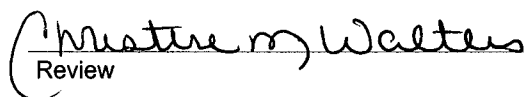
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 39708 - 39711, 39713 - 39715


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-007
Sample ID:	Cell #1	Date Reported:	01-15-07
Laboratory Number:	39713	Date Sampled:	01-11-07
Chain of Custody:	1926	Date Received:	01-12-07
Sample Matrix:	Soil	Date Analyzed:	01-15-07
Preservative:	Cool	Date Extracted:	01-12-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	2.2	1.5
p,m-Xylene	3.9	2.2
o-Xylene	1.7	1.0
Total BTEX	7.8	

ND - Parameter not detected at the stated detection limit.

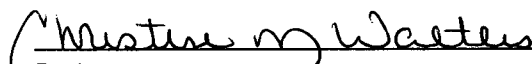
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Landfarm


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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-007
Sample ID:	Cell #2	Date Reported:	01-15-07
Laboratory Number:	39714	Date Sampled:	01-11-07
Chain of Custody:	1926	Date Received:	01-12-07
Sample Matrix:	Soil	Date Analyzed:	01-15-07
Preservative:	Cool	Date Extracted:	01-12-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	1.7	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	3.5	2.2
o-Xylene	ND	1.0
Total BTEX	5.2	

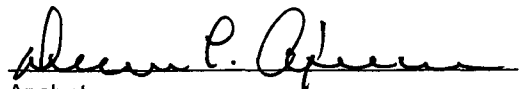
ND - Parameter not detected at the stated detection limit.

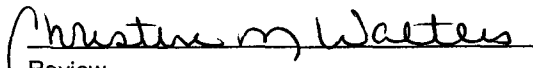
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Landfarm


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-15-BTEX QA/QC	Date Reported:	01-15-07
Laboratory Number:	39708	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-07
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	3.3526E+007	3.3593E+007	0.2%	ND	0.2
Toluene	4.6586E+007	4.6679E+007	0.2%	ND	0.2
Ethylbenzene	2.2857E+007	2.2903E+007	0.2%	ND	0.2
p,m-Xylene	9.4410E+007	9.4599E+007	0.2%	ND	0.2
o-Xylene	4.1525E+007	4.1608E+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	3.3	3.3	0.0%	0 - 30%	1.7
Ethylbenzene	7.2	7.2	0.0%	0 - 30%	1.5
p,m-Xylene	15.9	15.8	0.6%	0 - 30%	2.2
o-Xylene	7.1	7.0	1.4%	0 - 30%	1.0

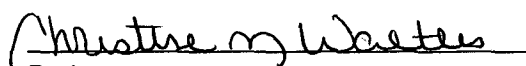
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	3.3	50.0	53.2	99.8%	46 - 148
Ethylbenzene	7.2	50.0	57.1	99.8%	32 - 160
p,m-Xylene	15.9	100	115	99.6%	46 - 148
o-Xylene	7.1	50.0	57.1	100.0%	46 - 148

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 39708 - 39711, 39713 - 39714


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Key Energy	Project #:	98065-007
Sample ID:	Cell #1	Date Reported:	01-15-07
Laboratory Number:	39713	Date Sampled:	01-11-07
Chain of Custody:	1926	Date Received:	01-12-07
Sample Matrix:	Soil	Date Analyzed:	01-15-07
Preservative:	N/A	Date Digested:	01-12-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.120	0.001	5.0
Barium	46.4	0.001	100
Cadmium	0.029	0.001	1.0
Chromium	0.088	0.001	5.0
Lead	0.234	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

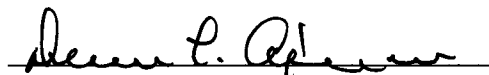
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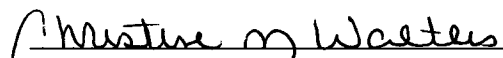
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Landfarm**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Key Energy	Project #:	98065-007
Sample ID:	Cell #2	Date Reported:	01-15-07
Laboratory Number:	39714	Date Sampled:	01-11-07
Chain of Custody:	1926	Date Received:	01-12-07
Sample Matrix:	Soil	Date Analyzed:	01-15-07
Preservative:	N/A	Date Digested:	01-12-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.153	0.001	5.0
Barium	40.8	0.001	100
Cadmium	0.037	0.001	1.0
Chromium	0.110	0.001	5.0
Lead	0.270	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

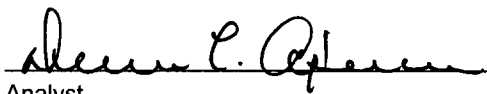
ND - Parameter not detected at the stated detection limit.

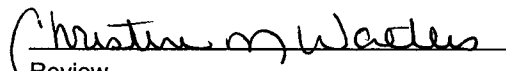
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Landfarm**


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	01-15 TM QA/AC	Date Reported:	01-15-07
Laboratory Number:	39713	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	01-15-07
Condition:	N/A	Date Digested:	01-12-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.120	0.123	2.5%	0% - 30%
Barium	ND	ND	0.001	46.4	46.3	0.2%	0% - 30%
Cadmium	ND	ND	0.001	0.029	0.029	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.088	0.091	3.4%	0% - 30%
Lead	ND	ND	0.001	0.234	0.238	1.7%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

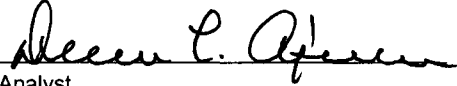
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.120	0.618	99.7%	80% - 120%
Barium	0.500	46.4	46.8	99.8%	80% - 120%
Cadmium	0.500	0.029	0.528	99.8%	80% - 120%
Chromium	0.500	0.088	0.589	100.2%	80% - 120%
Lead	0.500	0.234	0.733	99.9%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

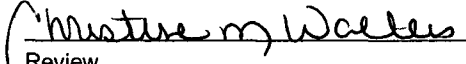
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 39713 - 39714


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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

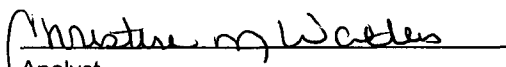
Client: Key Energy
Sample ID: Cell #1
Laboratory Number: 39713
Chain of Custody: 1926
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

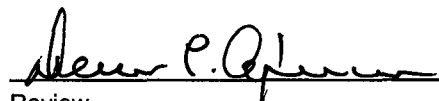
Project #: 98065-007
Date Reported: 01-15-07
Date Sampled: 01-11-07
Date Received: 01-12-07
Date Extracted: 01-14-07
Date Analyzed: 01-15-07

Parameter	Analytical Result	Units		
pH	8.06	s.u.		
Conductivity @ 25° C	489	umhos/cm		
Total Dissolved Solids @ 180C	380	mg/L		
Total Dissolved Solids (Calc)	367	mg/L		
SAR	7.1	ratio		
Total Alkalinity as CaCO3	28.4	mg/L		
Total Hardness as CaCO3	44.0	mg/L		
Bicarbonate as HCO3	28.4	mg/L	0.47	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	<0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.008	mg/L	0.00	meq/L
Chloride	46.4	mg/L	1.31	meq/L
Fluoride	1.43	mg/L	0.08	meq/L
Phosphate	0.30	mg/L	0.01	meq/L
Sulfate	179	mg/L	3.73	meq/L
Iron	0.004	mg/L	0.00	meq/L
Calcium	8.64	mg/L	0.43	meq/L
Magnesium	5.47	mg/L	0.45	meq/L
Potassium	0.21	mg/L	0.01	meq/L
Sodium	108	mg/L	4.70	meq/L
Cations			5.58	meq/L
Anions			5.59	meq/L
Cation/Anion Difference			0.02%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm**


Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

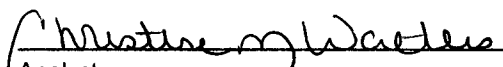
Client: Key Energy
Sample ID: Cell #2
Laboratory Number: 39714
Chain of Custody: 1926
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

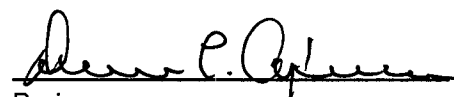
Project #: 98065-007
Date Reported: 01-15-07
Date Sampled: 01-11-07
Date Received: 01-12-07
Date Extracted: 01-14-07
Date Analyzed: 01-15-07

Parameter	Analytical Result	Units		
pH	8.39	s.u.		
Conductivity @ 25° C	495	umhos/cm		
Total Dissolved Solids @ 180C	348	mg/L		
Total Dissolved Solids (Calc)	347	mg/L		
SAR	8.8	ratio		
Total Alkalinity as CaCO3	27.2	mg/L		
Total Hardness as CaCO3	28.2	mg/L		
Bicarbonate as HCO3	27.2	mg/L	0.45	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.005	mg/L	0.00	meq/L
Chloride	45.2	mg/L	1.28	meq/L
Fluoride	1.06	mg/L	0.06	meq/L
Phosphate	0.40	mg/L	0.01	meq/L
Sulfate	166	mg/L	3.46	meq/L
Iron	<0.001	mg/L	0.00	meq/L
Calcium	8.40	mg/L	0.42	meq/L
Magnesium	1.76	mg/L	0.14	meq/L
Potassium	0.32	mg/L	0.01	meq/L
Sodium	107	mg/L	4.67	meq/L
Cations			5.24	meq/L
Anions			5.25	meq/L
Cation/Anion Difference			0.06%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm**


Analyst


Review

1926

san juan reproduction 578-129



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NOV 08 2006

Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87504

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

November 2, 2006

Third Quarter 2006

Wayne Price
Environmental Bureau Chief
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Brandon Powell
Environmental Specialist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Mr. Price:

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
If you require additional information, please contact me at the Facility
334-6186 or email at mtalovich@keyenergy.com

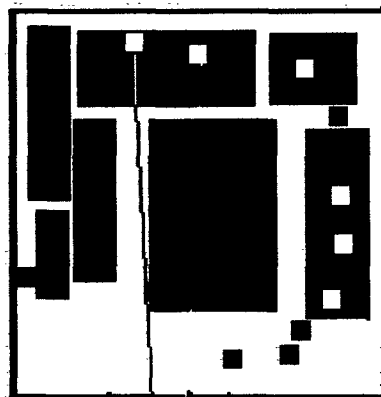
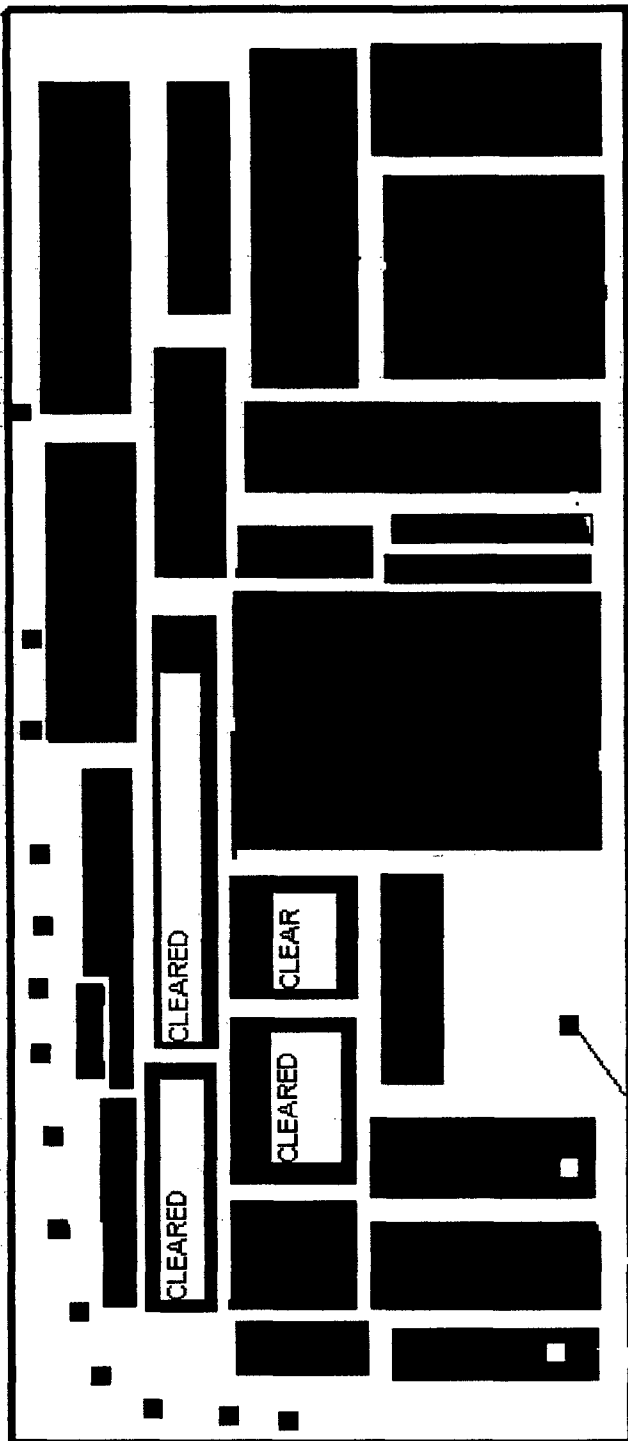
Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. WA Baker Key Energy
Mr. Brandon Powell NMOCD

OCTOBER 17, 200

NORTH



CELL #2 SAMPLE POINT

CELL #1 SAMPLE POINT

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

RECEIVED
OCT 20 2006

BY:.....

October 19, 2006

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Dear Mr. Talovich,

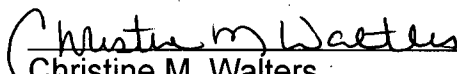
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 10/17/06, and received by the Envirotech laboratory on 10/17/06 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 1599. The samples were assigned Laboratory Nos. 38866 (Cell #1) and 38867 (Cell #2) for tracking purposes.

The samples were analyzed 10/18/06 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

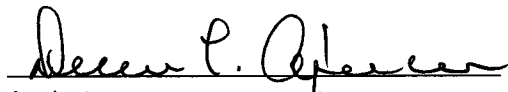
Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #1	Date Reported:	10-18-06
Laboratory Number:	38866	Date Sampled:	10-17-06
Chain of Custody No:	1599	Date Received:	10-17-06
Sample Matrix:	Soil	Date Extracted:	10-17-06
Preservative:	Cool	Date Analyzed:	10-18-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

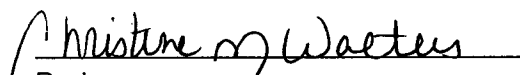
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

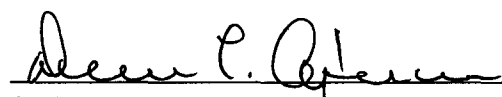
Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #2	Date Reported:	10-18-06
Laboratory Number:	38867	Date Sampled:	10-17-06
Chain of Custody No:	1599	Date Received:	10-17-06
Sample Matrix:	Soil	Date Extracted:	10-17-06
Preservative:	Cool	Date Analyzed:	10-18-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

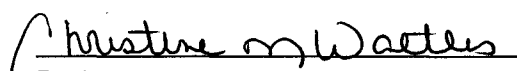
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-18-06 QA/QC	Date Reported:	10-18-06
Laboratory Number:	38866	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-18-06
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	1.0076E+003	1.0087E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	9.9027E+002	9.9226E+002	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%

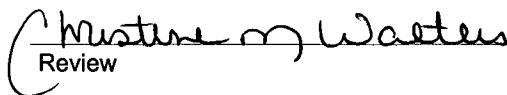
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 38866 - 38868, 38871 - 38875


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #1	Date Reported:	10-18-06
Laboratory Number:	38866	Date Sampled:	10-17-06
Chain of Custody:	1599	Date Received:	10-17-06
Sample Matrix:	Soil	Date Analyzed:	10-18-06
Preservative:	Cool	Date Extracted:	10-17-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

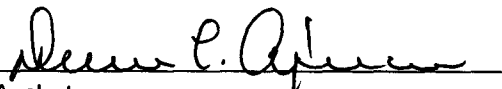
ND - Parameter not detected at the stated detection limit.

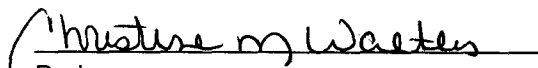
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Landfarm


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #2	Date Reported:	10-18-06
Laboratory Number:	38867	Date Sampled:	10-17-06
Chain of Custody:	1599	Date Received:	10-17-06
Sample Matrix:	Soil	Date Analyzed:	10-18-06
Preservative:	Cool	Date Extracted:	10-17-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

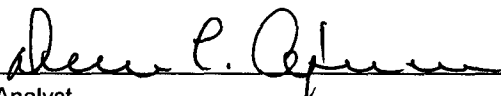
ND - Parameter not detected at the stated detection limit.

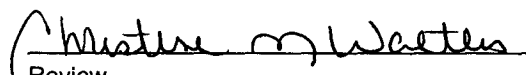
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Landfarm


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-18-BTEX QA/QC	Date Reported:	10-18-06
Laboratory Number:	38866	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-18-06
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	4.6616E+007	4.6709E+007	0.2%	ND	0.2
Toluene	6.3380E+007	6.3507E+007	0.2%	ND	0.2
Ethylbenzene	2.7582E+007	2.7637E+007	0.2%	ND	0.2
p,m-Xylene	1.1511E+008	1.1534E+008	0.2%	ND	0.2
o-Xylene	5.1933E+007	5.2037E+007	0.2%	ND	0.1

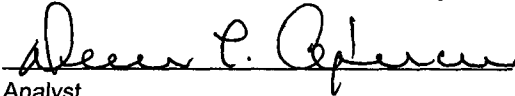
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

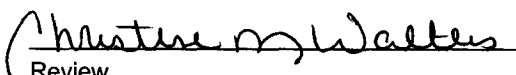
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	50.0	100.0%	46 - 148

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 38866 - 38868, 38872, 38875


Analyst


Review

CHAIN OF CUSTODY RECORD

[illegible]

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AUG 11

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

August 2, 2006 Second Quarter 2006

Wayne Price
Environmental Bureau Chief
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Brandon Powell
Environmental Specialist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Mr. Martin:

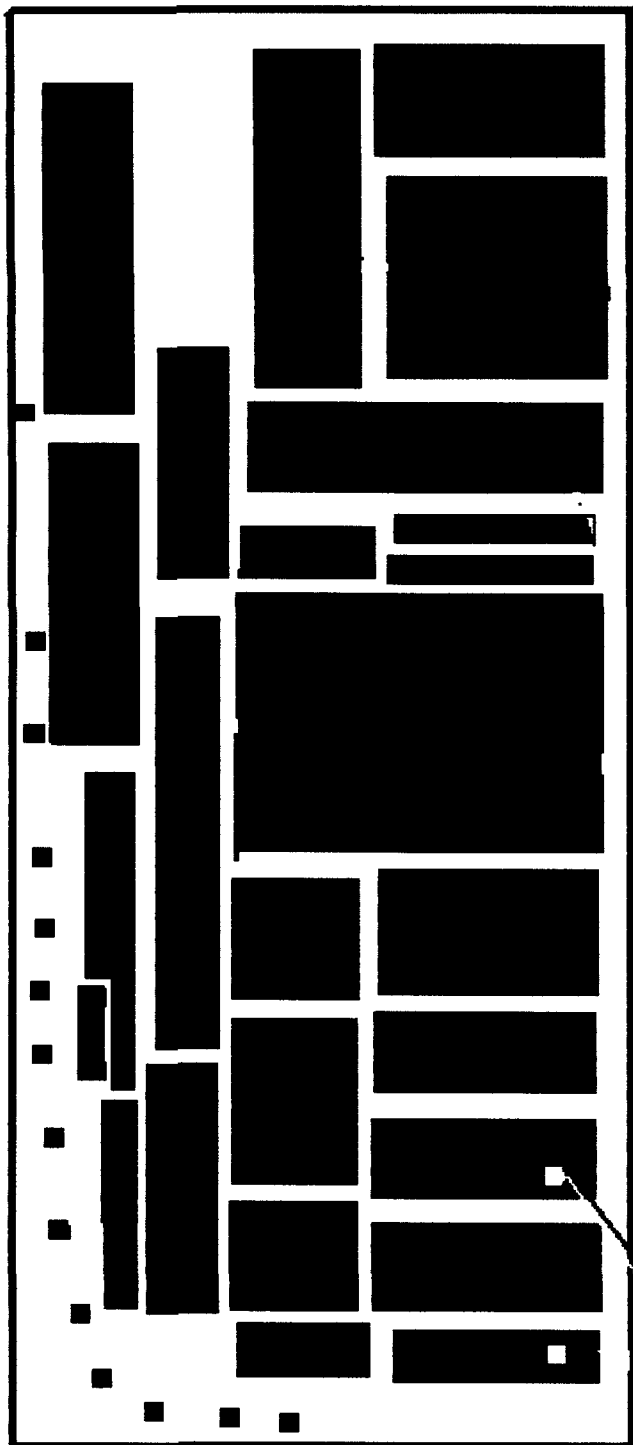
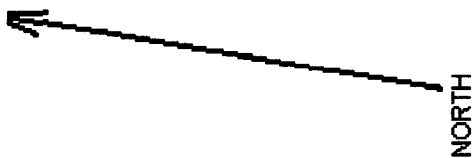
Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
If you require additional information, please contact me at the Facility
334-6186 or email at mtalovich@keyenergy.com

Best Regards:

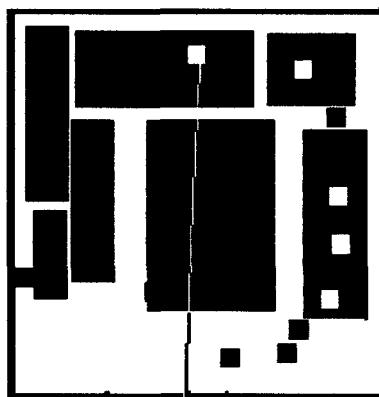
Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. WA Baker Key Energy
Mr. Brandon Powell NMOCD

JULY 19 2006



CELL #2 SAMPLE POINT



CELL #1 SAMPLE POINT

MAJ. 8-2-06

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 20, 2006

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Dear Mr. Talovich,

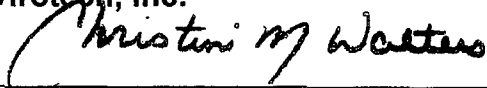
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm; Cell #1 & Cell #2". Two soil samples were collected by Key Energy Service designated personnel on 7/19/06, and received by the Envirotech laboratory on 7/19/06 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 1221. The samples were assigned Laboratory Nos. 37892 (Cell #1) and 37893 (Cell #2) for tracking purposes.

The samples were analyzed 7/20/06 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.



Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

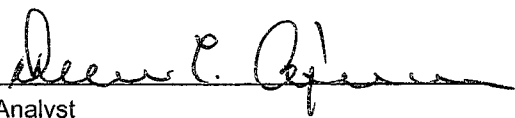
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-20-06
Laboratory Number:	37892	Date Sampled:	07-19-06
Chain of Custody No:	1221	Date Received:	07-19-06
Sample Matrix:	Soil	Date Extracted:	07-19-06
Preservative:	Cool	Date Analyzed:	07-20-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

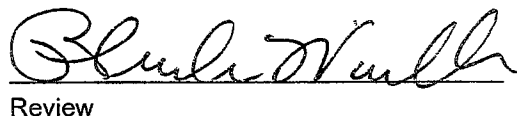
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-20-06
Laboratory Number:	37893	Date Sampled:	07-19-06
Chain of Custody No:	1221	Date Received:	07-19-06
Sample Matrix:	Soil	Date Extracted:	07-19-06
Preservative:	Cool	Date Analyzed:	07-20-06
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: **Landfarm**


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:	07-20-06 QA/QC	Date Reported:	07-20-06
Laboratory Number:	37886	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-20-06
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	9.9647E+002	9.9747E+002	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	9.9603E+002	9.9802E+002	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

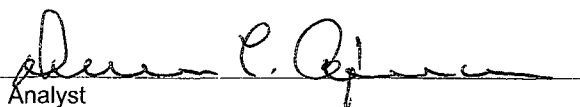
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	99.8%	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 37886 - 37890, 37892 - 37893


Analyst


Review

ENVIROTECH LABS

ANALYTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-20-06
Laboratory Number:	37892	Date Sampled:	07-19-06
Chain of Custody:	1221	Date Received:	07-19-06
Sample Matrix:	Soil	Date Analyzed:	07-20-06
Preservative:	Cool	Date Extracted:	07-19-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

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: Landfarm


Analyst


Review

ENVIROTECH LABS

ENVIRONMENTAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-20-06
Laboratory Number:	37893	Date Sampled:	07-19-06
Chain of Custody:	1221	Date Received:	07-19-06
Sample Matrix:	Soil	Date Analyzed:	07-20-0606
Preservative:	Cool	Date Extracted:	07-19-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

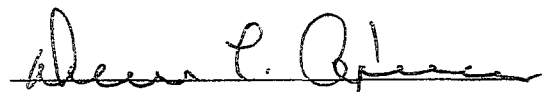
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Landfarm


Analyst


Review

ENVIROTECH LABS

ENVIRONMENTAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-20-BTEX QA/QC	Date Reported:	07-20-06
Laboratory Number:	37889	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-20-06
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	6.4374E+007	6.4503E+007	0.2%	ND	0.2
Toluene	8.4692E+007	8.4862E+007	0.2%	ND	0.2
Ethylbenzene	3.8484E+007	3.8561E+007	0.2%	ND	0.2
p,m-Xylene	1.5205E+008	1.5235E+008	0.2%	ND	0.2
o-Xylene	7.9842E+007	8.0002E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	9.8	9.7	1.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	52.7	52.6	0.2%	0 - 30%	2.2
o-Xylene	22.4	22.3	0.4%	0 - 30%	1.0

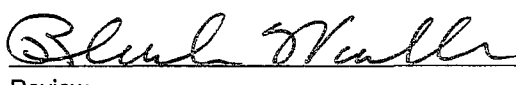
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	9.8	50.0	59.8	100.0%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	52.7	100	152	99.7%	46 - 148
o-Xylene	22.4	50.0	72.3	99.9%	46 - 148

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 37889, 37892 - 37893


Analyst


Review

1221

san juan reproduction 578-129



UNLOCK YOUR POTENTIAL

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

January 23, 2006

Fourth Quarter 2005

Ed Martin
Environmental Engineer
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Mr. Martin:

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
If you require additional information, please contact me at the Facility
334-6186 or email at mtalovich@keyenergy.com

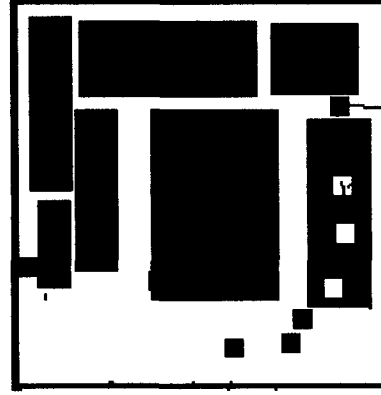
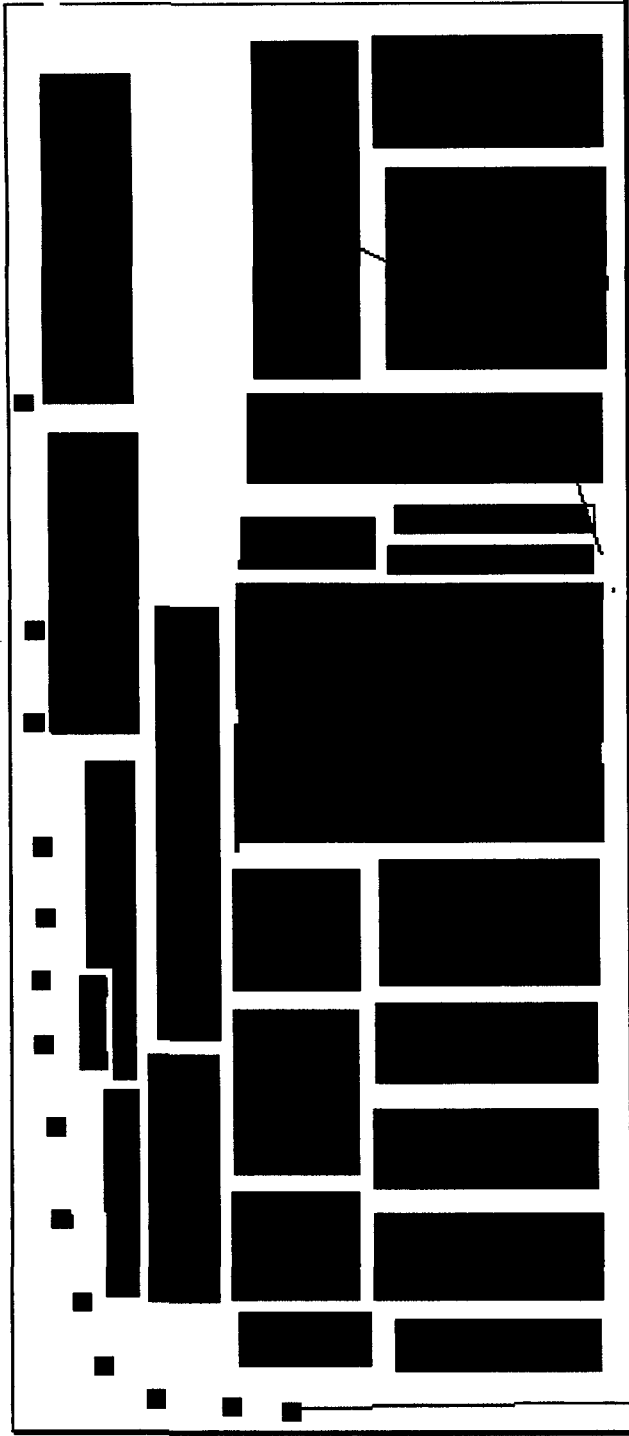
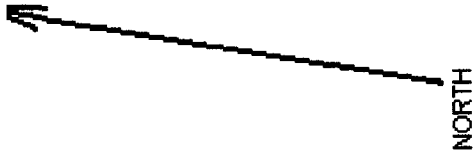
Best Regards:

A handwritten signature in black ink, appearing to read "Michael Talovich".

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Fuller KEY
Mr. Foust NMOCD

JAN 23, 2006



CELL #1 SAMPLE POINT

CELL #2 SAMPLE POINT



January 23, 2006

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Dear Mr. Talovich,

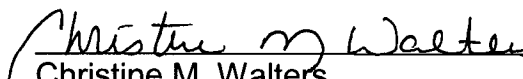
Enclosed are the analytical results for the samples collected from the location designated as "Cell #1 & Cell #2". Two soil samples were collected by Key Energy Service designated personnel on 1/16/06, and received by the Envirotech laboratory on 1/17/06 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 15380. The samples were assigned Laboratory Nos. 35766 (Cell #1) and 35767 (Cell #2) for tracking purposes.

The samples were analyzed 1/19/06 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

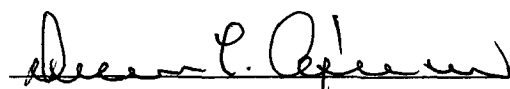
Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #1	Date Reported:	01-19-06
Laboratory Number:	35766	Date Sampled:	01-16-06
Chain of Custody No:	15380	Date Received:	01-17-06
Sample Matrix:	Soil	Date Extracted:	01-17-06
Preservative:	Cool	Date Analyzed:	01-19-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

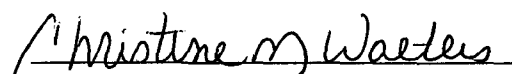
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Cell #1; #2.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

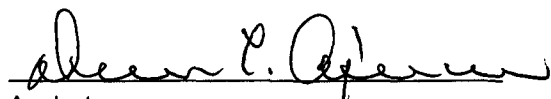
Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #2	Date Reported:	01-19-06
Laboratory Number:	35767	Date Sampled:	01-16-06
Chain of Custody No:	15380	Date Received:	01-17-06
Sample Matrix:	Soil	Date Extracted:	01-17-06
Preservative:	Cool	Date Analyzed:	01-19-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

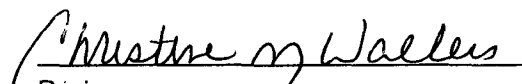
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Cell #1; #2.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-19-06 QA/QC	Date Reported:	01-19-06
Laboratory Number:	35766	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-06
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	9.9890E+002	9.9990E+002	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.0011E+003	1.0031E+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

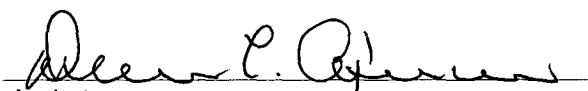
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

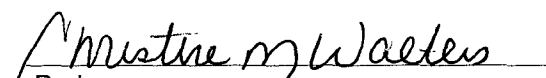
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 35766 - 35767, 35770 - 35773, 35776 - 35777.


Analyst


Review

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #1	Date Reported:	01-19-06
Laboratory Number:	35766	Date Sampled:	01-16-06
Chain of Custody:	15380	Date Received:	01-17-06
Sample Matrix:	Soil	Date Analyzed:	01-19-06
Preservative:	Cool	Date Extracted:	01-17-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

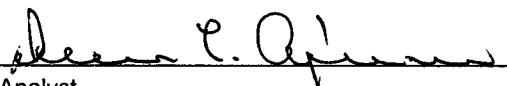
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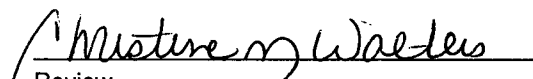
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Cell #1; #2.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98056-004
Sample ID:	Cell #2	Date Reported:	01-19-06
Laboratory Number:	35767	Date Sampled:	01-16-06
Chain of Custody:	15380	Date Received:	01-17-06
Sample Matrix:	Soil	Date Analyzed:	01-19-06
Preservative:	Cool	Date Extracted:	01-17-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

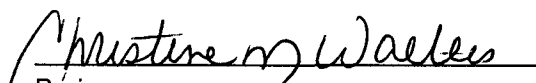
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Cell #1; #2.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	01-19-BTEX QA/QC	Date Reported:	01-19-06
Laboratory Number:	35766	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-06
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	5.2469E+007	5.2574E+007	0.2%	ND	0.2
Toluene	5.2959E+007	5.3065E+007	0.2%	ND	0.2
Ethylbenzene	3.8868E+007	3.8946E+007	0.2%	ND	0.2
p,m-Xylene	7.8013E+007	7.8170E+007	0.2%	ND	0.2
o-Xylene	3.7245E+007	3.7320E+007	0.2%	ND	0.1

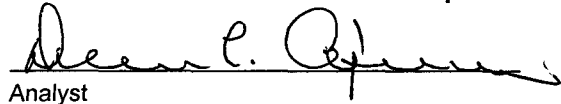
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

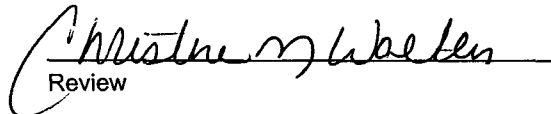
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	50.0	100.0%	46 - 148
Ethylbenzene	ND	50.0	50.0	100.0%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 35766 - 35767, 35769 - 35770, 35772 - 35773, 35776 - 35777


Analyst


Review

15380

san juan reproduction 578-129



UNLOCK YOUR POTENTIAL

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

November 21, 2005

Third Quarter 2005

Ed Martin
Environmental Engineer
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

NM-1-009

Mr. Martin:

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

If you require additional information, please contact me at the Facility
334-6186 or email at mtalovich@keyenergy.com

Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

RECEIVED

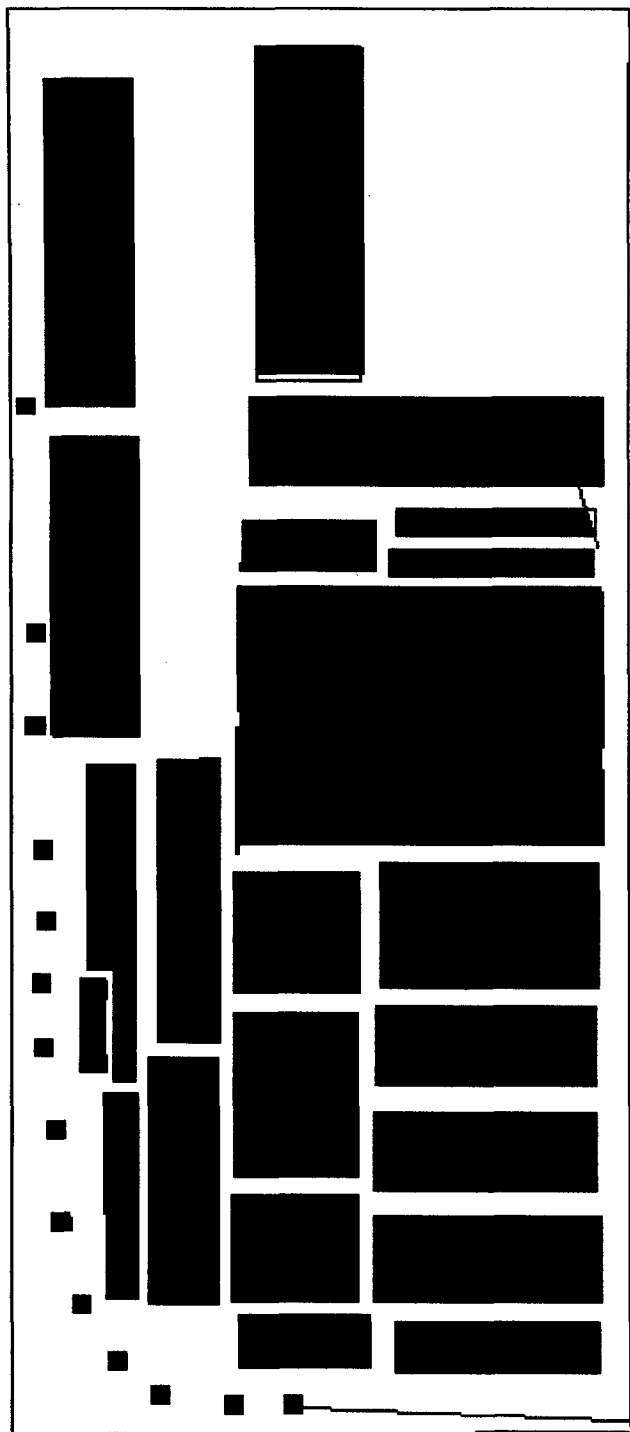
NOV 23 2005

**OIL CONSERVATION
DIVISION**

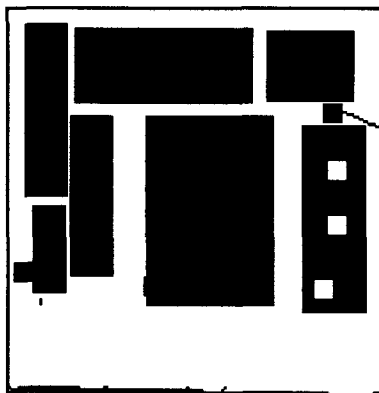
cc: Mr. Fuller KEY
Mr. Foust NMOCD

NOV 21 2005

NORTH



CELL #2 SAMPLE POINT



CELL #1 SAMPLE POINT

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

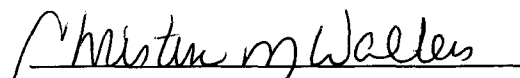
Client:	Key Energy Services	Project #:	98065-004
Sample ID:	Landfarm Cell #1	Date Reported:	10-18-05
Laboratory Number:	34682	Date Sampled:	10-17-05
Chain of Custody No:	14926	Date Received:	10-17-05
Sample Matrix:	Soil	Date Extracted:	10-18-05
Preservative:	Cool	Date Analyzed:	10-18-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.2	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.2	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: ~~Injection Pump A.F.~~


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

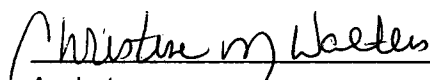
Client:	Key Energy Services	Project #:	98065-004
Sample ID:	Landfarm Cell #2	Date Reported:	10-18-05
Laboratory Number:	34683	Date Sampled:	10-17-05
Chain of Custody No:	14926	Date Received:	10-17-05
Sample Matrix:	Soil	Date Extracted:	10-18-05
Preservative:	Cool	Date Analyzed:	10-18-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

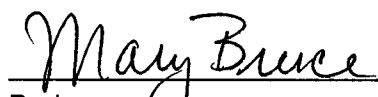
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.2	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.2	0.2

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: ~~Injection Pump A.F.~~


 Analyst


 Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-18-05 QA/QC	Date Reported:	10-18-05
Laboratory Number:	34677	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-18-05
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	1.5212E+003	1.5227E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	1.0968E+003	1.0990E+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 34677 - 34679, 34682 - 34683 and 34687.

Christine M. Walters
Analyst

Mary Bruce
Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy Service	Project #:	98065-004
Sample ID:	Landfarm Cell #1	Date Reported:	10-18-05
Laboratory Number:	34682	Date Sampled:	10-17-05
Chain of Custody:	14926	Date Received:	10-17-05
Sample Matrix:	Soil	Date Analyzed:	10-18-05
Preservative:	Cool	Date Extracted:	10-18-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	9.8	1.8
Toluene	23.7	1.7
Ethylbenzene	95.6	1.5
p,m-Xylene	75.7	2.2
o-Xylene	20.3	1.0
Total BTEX	225	

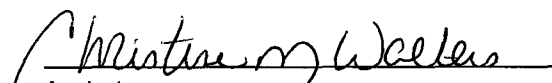
ND - Parameter not detected at the stated detection limit.

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: ~~Injection Pump~~ A.F.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy Service	Project #:	98065-004
Sample ID:	Landfarm Cell #2	Date Reported:	10-18-05
Laboratory Number:	34683	Date Sampled:	10-17-05
Chain of Custody:	14926	Date Received:	10-17-05
Sample Matrix:	Soil	Date Analyzed:	10-18-05
Preservative:	Cool	Date Extracted:	10-18-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	17.8	1.7
Ethylbenzene	93.5	1.5
p,m-Xylene	73.7	2.2
o-Xylene	21.6	1.0
Total BTEX	207	

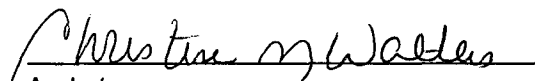
ND - Parameter not detected at the stated detection limit.

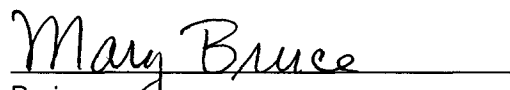
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Injection Pump A.F.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	10-18-BTEX QA/QC	Date Reported:	10-18-05
Laboratory Number:	34678	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-18-05
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	1.6551E+007	1.6584E+007	0.2%	ND	0.2
Toluene	4.5759E+007	4.5850E+007	0.2%	ND	0.2
Ethylbenzene	3.5120E+007	3.5190E+007	0.2%	ND	0.2
p,m-Xylene	7.2148E+007	7.2293E+007	0.2%	ND	0.2
o-Xylene	3.4076E+007	3.4144E+007	0.2%	ND	0.1

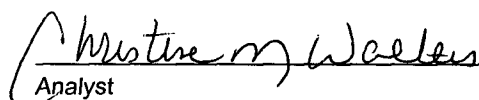
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	7.3	7.2	1.4%	0 - 30%	1.8
Toluene	137	137	0.0%	0 - 30%	1.7
Ethylbenzene	5,450	5,450	0.0%	0 - 30%	1.5
p,m-Xylene	5,290	5,290	0.0%	0 - 30%	2.2
o-Xylene	2,000	2,010	0.5%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	7.3	50.0	57.2	99.8%	39 - 150
Toluene	137	50.0	186	99.8%	46 - 148
Ethylbenzene	5,450	50.0	5,490	99.8%	32 - 160
p,m-Xylene	5,290	100	5,380	99.8%	46 - 148
o-Xylene	2,000	50.0	2,050	100.0%	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 34678 and 34682 - 34683.


Analyst


Review



UNLOCK YOUR POTENTIAL

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

August 3, 2005 Second Quarter 2005

Ed Martin
Environmental Engineer
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

NM-1-009

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Mr. Martin:

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
If you require additional information, please contact me at the Facility
334-6186 or email at mtalovich@keyenergy.com

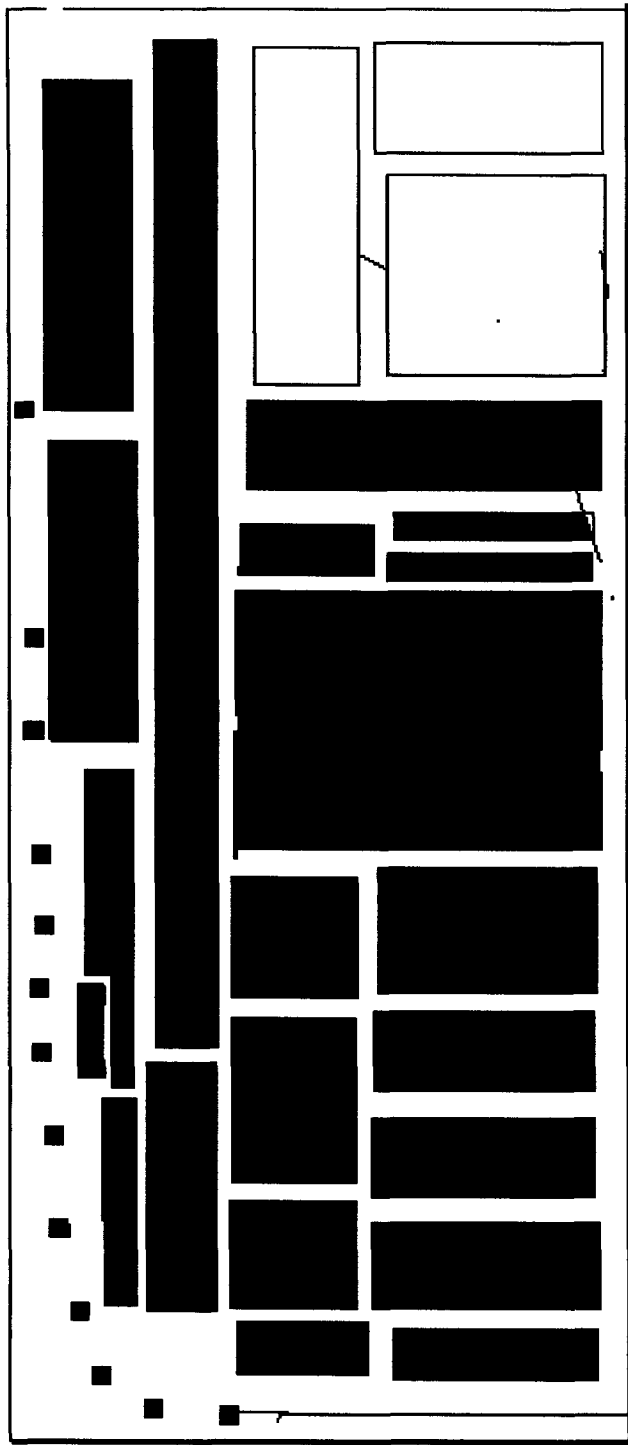
Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

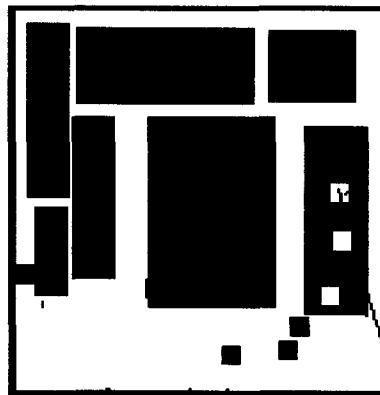
cc: Mr. Fuller KEY
Mr. Foust NMOCD

August 3, 2005

NORTH



CELL #2 SAMPLE POINT



CELL #1 SAMPLE POINT

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 22, 2005

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Dear Mr. Talovich,

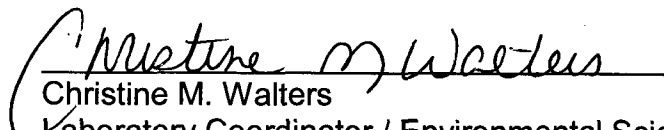
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 07/15/05, and received by the Envirotech laboratory on 07/15/05 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 14292. The samples were assigned Laboratory Nos. 33706 (Cell #1) and 33707 (Cell #2) for tracking purposes.

The samples were analyzed 07/20/05 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-20-05
Laboratory Number:	33706	Date Sampled:	07-15-05
Chain of Custody No:	14292	Date Received:	07-15-05
Sample Matrix:	Soil	Date Extracted:	07-19-05
Preservative:	Cool	Date Analyzed:	07-20-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

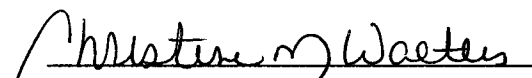
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

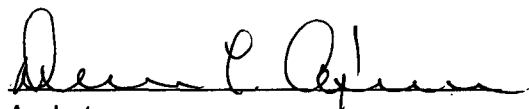
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-20-05
Laboratory Number:	33707	Date Sampled:	07-15-05
Chain of Custody No:	14292	Date Received:	07-15-05
Sample Matrix:	Soil	Date Extracted:	07-19-05
Preservative:	Cool	Date Analyzed:	07-20-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

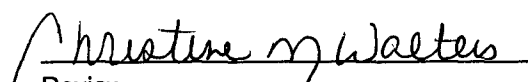
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-20-05 QA/QC	Date Reported:	07-20-05
Laboratory Number:	33609	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-20-05
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	9.9780E+002	9.9880E+002	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	9.9999E+002	1.0020E+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

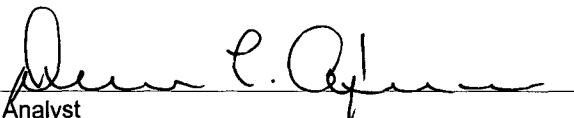
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

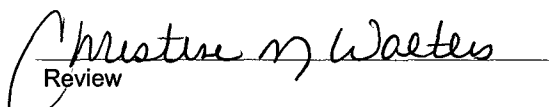
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 33609 - 33613, 33693 - 33695, 33706 - 33707.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-20-05
Laboratory Number:	33706	Date Sampled:	07-15-05
Chain of Custody:	14292	Date Received:	07-15-05
Sample Matrix:	Soil	Date Analyzed:	07-20-05
Preservative:	Cool	Date Extracted:	07-19-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	ND	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	ND	1.5
o-Xylene	ND	2.2
Total BTEX	ND	

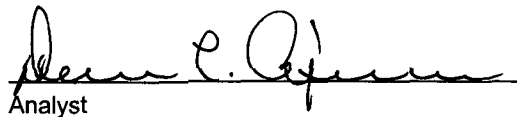
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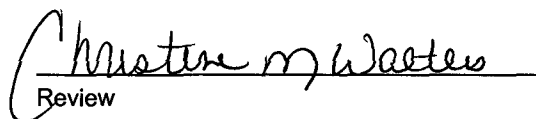
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Landfarm.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-20-05
Laboratory Number:	33707	Date Sampled:	07-15-05
Chain of Custody:	14292	Date Received:	07-15-05
Sample Matrix:	Soil	Date Analyzed:	07-20-05
Preservative:	Cool	Date Extracted:	07-19-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	ND	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	ND	1.5
o-Xylene	ND	2.2
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

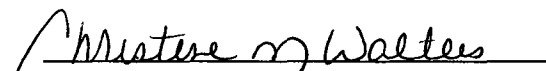
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Landfarm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	07-20-BTEX QA/QC	Date Reported:	07-20-05
Laboratory Number:	33609	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-20-05
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	1.7739E+007	1.7775E+007	0.2%	ND	0.2
Toluene	5.7365E+007	5.7480E+007	0.2%	ND	0.2
Ethylbenzene	4.4327E+007	4.4416E+007	0.2%	ND	0.2
p,m-Xylene	9.1117E+007	9.1300E+007	0.2%	ND	0.2
o-Xylene	4.5778E+007	4.5870E+007	0.2%	ND	0.2

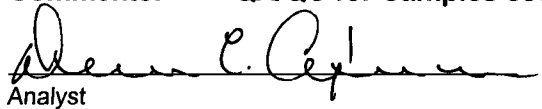
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	2.0
Toluene	14.6	14.5	0.7%	0 - 30%	2.0
Ethylbenzene	3.9	3.8	2.6%	0 - 30%	2.0
p,m-Xylene	14.8	14.7	0.7%	0 - 30%	2.0
o-Xylene	4.8	4.7	2.1%	0 - 30%	2.0

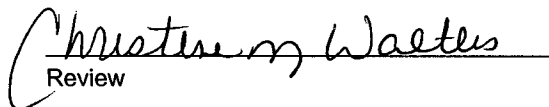
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	14.6	50.0	64.5	99.8%	46 - 148
Ethylbenzene	3.9	50.0	53.9	100.0%	32 - 160
p,m-Xylene	14.8	100	114.7	99.9%	46 - 148
o-Xylene	4.8	50.0	54.7	99.8%	46 - 148

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 33609 - 33613, 33693, 33706 - 33707, 33709.


Analyst


Review

14292

san juan reproduction 578-129



UNLOCK YOUR POTENTIAL

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

May 3, 2005 First Quarter 2005

Ed Martin
Environmental Engineer
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

NM-1-009

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Mr. Martin:

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
If you require additional information, please contact me at the Facility
334-6186 or email at mtalovich@keyenergy.com

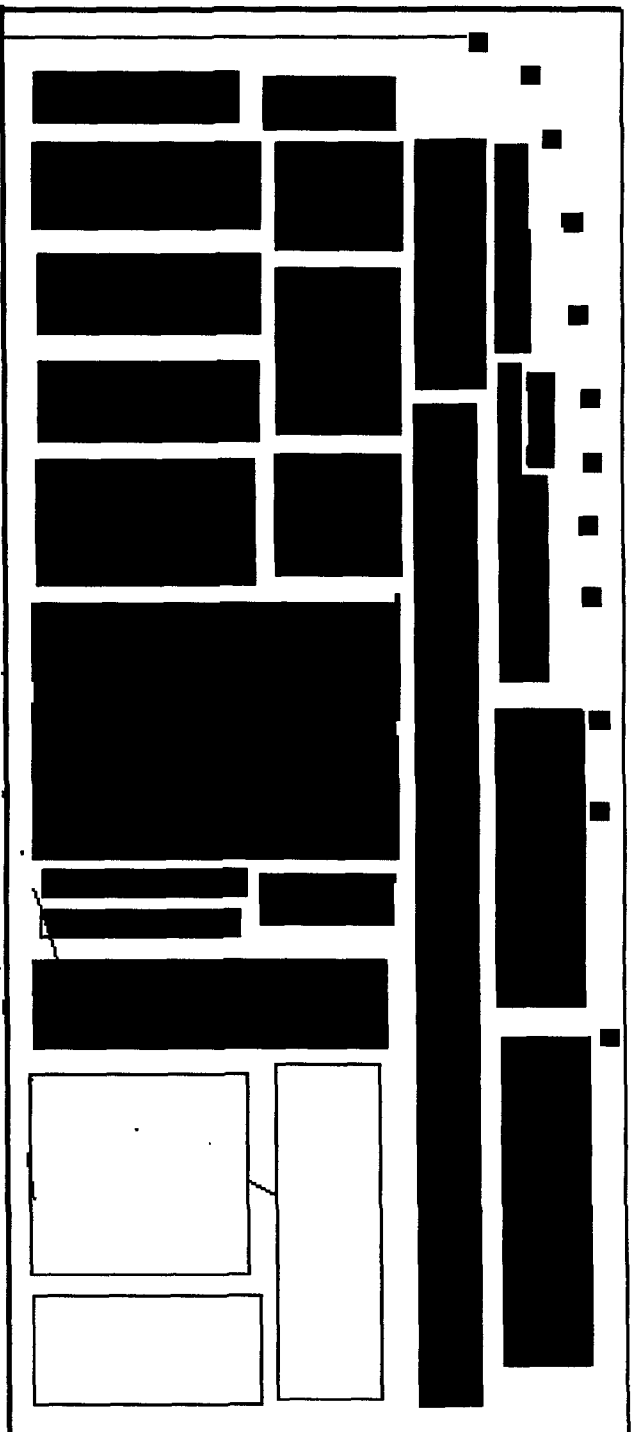
Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Coberly KEY
Mr. Foust NMOCD

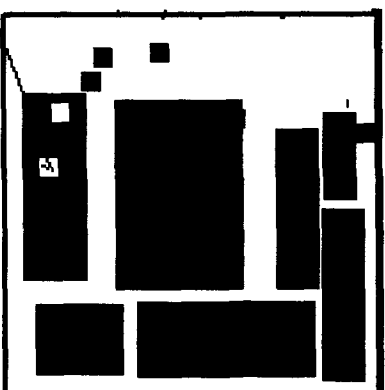
MAY 3, 2005

NORTH



CELL #2 SAMPLE POINT

CELL #1 SAMPLE POINT



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 29, 2005

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Dear Mr. Talovich,

Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 04/26/05, and received by the Envirotech laboratory on 04/27/05 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

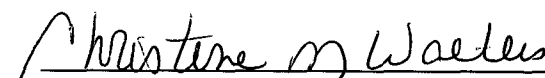
The samples were documented on Envirotech Chain of Custody No. 13989. The samples were assigned Laboratory Nos. 32783 (Cell #1) and 32784 (Cell #2) for tracking purposes.

The samples were analyzed 04/28/05 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,

Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	04-28-05
Laboratory Number:	32783	Date Sampled:	04-26-05
Chain of Custody:	13989	Date Received:	04-27-05
Sample Matrix:	Soil	Date Analyzed:	04-28-05
Preservative:	Cool	Date Extracted:	04-27-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	ND	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	ND	1.5
o-Xylene	ND	2.2
Total BTEX	ND	

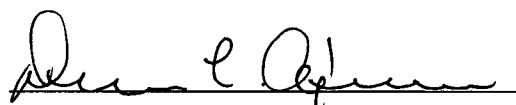
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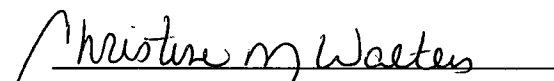
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Landfarm.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	04-28-05
Laboratory Number:	32784	Date Sampled:	04-26-05
Chain of Custody:	13989	Date Received:	04-27-05
Sample Matrix:	Soil	Date Analyzed:	04-28-05
Preservative:	Cool	Date Extracted:	04-27-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	ND	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	ND	1.5
o-Xylene	ND	2.2
Total BTEX	ND	

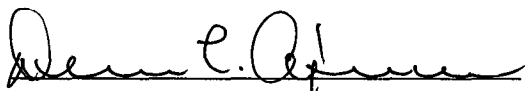
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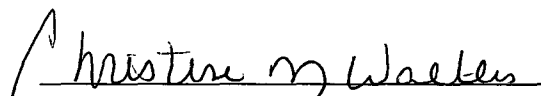
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Landfarm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	04-28-BTEX QA/QC	Date Reported:	04-28-05
Laboratory Number:	32783	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-28-05
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	2.7013E+007	2.7067E+007	0.2%	ND	0.2
Toluene	5.9393E+007	5.9512E+007	0.2%	ND	0.2
Ethylbenzene	4.4459E+007	4.4548E+007	0.2%	ND	0.2
p,m-Xylene	9.1791E+007	9.1975E+007	0.2%	ND	0.2
o-Xylene	4.4888E+007	4.4978E+007	0.2%	ND	0.1

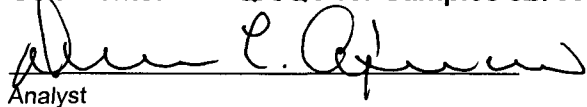
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

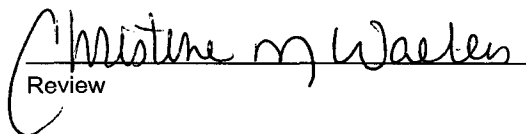
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 32783 - 32784, 32786.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

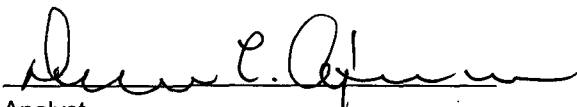
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	04-28-05
Laboratory Number:	32783	Date Sampled:	04-26-05
Chain of Custody No:	13989	Date Received:	04-27-05
Sample Matrix:	Soil	Date Extracted:	04-27-05
Preservative:	Cool	Date Analyzed:	04-28-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

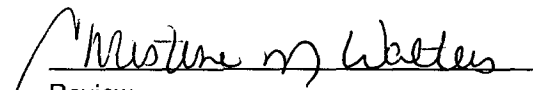
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

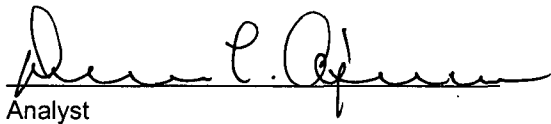
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	04-28-05
Laboratory Number:	32784	Date Sampled:	04-26-05
Chain of Custody No:	13989	Date Received:	04-27-05
Sample Matrix:	Soil	Date Extracted:	04-27-05
Preservative:	Cool	Date Analyzed:	04-28-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

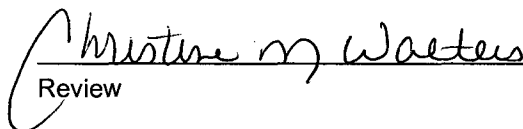
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-28-05 QA/QC	Date Reported:	04-28-05
Laboratory Number:	32783	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-28-05
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	9.9900E+002	1.0000E+003	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	9.9936E+002	1.0014E+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

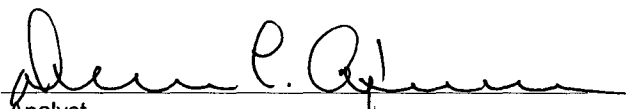
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

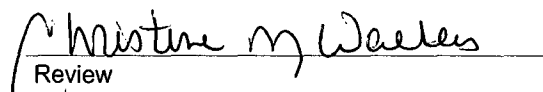
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 32783 - 32784, 32786.


Analyst


Review

13989

san juan reproduction 578-129



UNLOCK YOUR POTENTIAL

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

February 14, 2005 Forth Quarter 2004

Ed Martin
Environmental Engineer
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RECEIVED
FEB 05 2005
Per *[Signature]*

RE: Key Energy Landfarm Subsurface Report — *NM-1-009*

Mr. Martin:

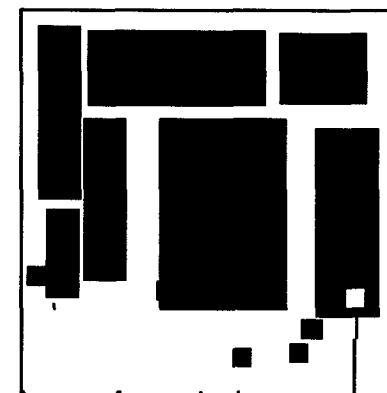
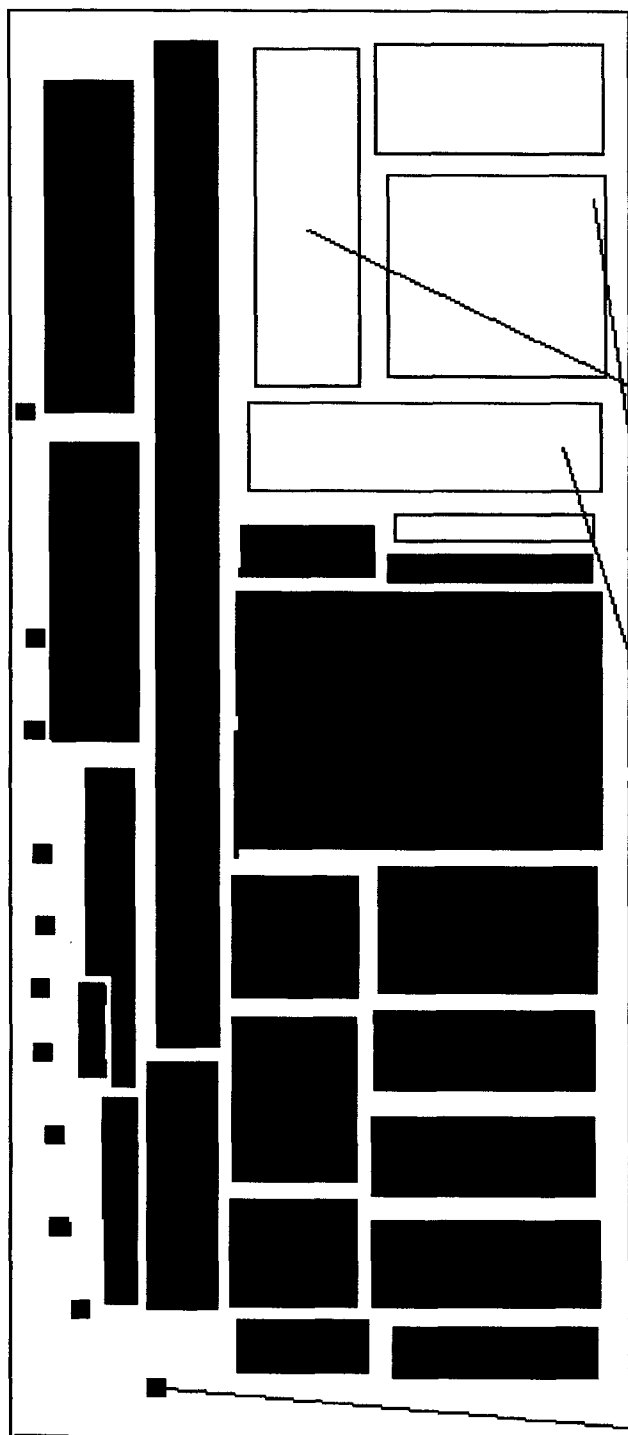
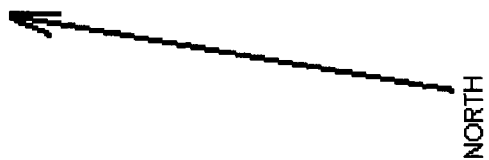
Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
If you require additional information, please contact me at the Office 334-6416 or at the Facility
334-6186 or email at mtalovich@keyenergy.com

Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Coberly KEY
Mr. Foust NMOCD

FEB. 14 2005



cleared areas

LANDFARM CELL #2 SAMPLE POINT

LANDFARM CELL #1 SAMPLE
POINT

January 21, 2005

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 01/19/05, and received by the Envirotech laboratory on 01/19/05 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

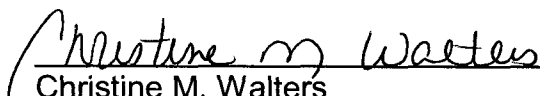
The samples were documented on Envirotech Chain of Custody No. 13496. The samples were assigned Laboratory Nos. 31706 (Cell #1) and 31707 (Cell #2) for tracking purposes.

The samples were analyzed 01/20/05 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,

Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	01-20-05
Laboratory Number:	31706	Date Sampled:	01-19-05
Chain of Custody:	13496	Date Received:	01-19-05
Sample Matrix:	Soil	Date Analyzed:	01-20-05
Preservative:	Cool	Date Extracted:	01-19-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	ND	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	ND	1.5
o-Xylene	ND	2.2
Total BTEX	ND	

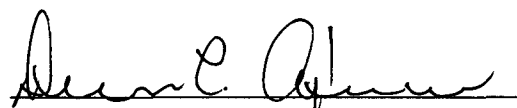
ND - Parameter not detected at the stated detection limit.

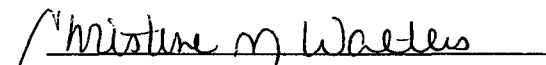
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.8 %
	1,4-difluorobenzene	99.8 %
	Bromochlorobenzene	99.8 %

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: Landfarm.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	01-20-05
Laboratory Number:	31707	Date Sampled:	01-19-05
Chain of Custody:	13496	Date Received:	01-19-05
Sample Matrix:	Soil	Date Analyzed:	01-20-05
Preservative:	Cool	Date Extracted:	01-19-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	ND	1.8
Ethylbenzene	ND	1.7
p,m-Xylene	ND	1.5
o-Xylene	ND	2.2
Total BTEX	ND	

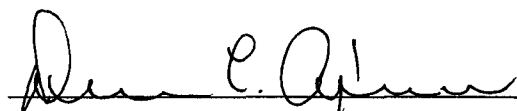
ND - Parameter not detected at the stated detection limit.

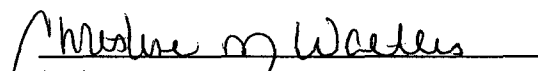
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.8 %
	1,4-difluorobenzene	99.8 %
	Bromochlorobenzene	99.8 %

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: Landfarm.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	N/A	Project #:	N/A
Sample ID:	01-20-BTEX QA/QC	Date Reported:	01-20-05
Laboratory Number:	31709	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-20-05
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	8.8990E+005	8.9257E+005	0.30%	ND	0.2
Toluene	6.9359E+005	6.9568E+005	0.30%	ND	0.2
Ethylbenzene	4.3968E+005	4.4100E+005	0.30%	ND	0.2
p,m-Xylene	1.0544E+006	1.0576E+006	0.30%	ND	0.2
o-Xylene	4.0623E+005	4.0746E+005	0.30%	ND	0.1

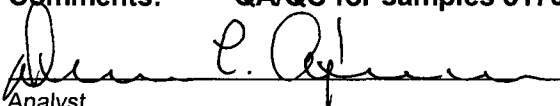
Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff.	Accept Limit
Benzene	41.8	41.7	0.2%	0 - 30%
Toluene	9.0	8.9	1.1%	0 - 30%
Ethylbenzene	45.3	45.2	0.2%	0 - 30%
p,m-Xylene	24.9	24.8	0.4%	0 - 30%
o-Xylene	17.2	17.1	0.6%	0 - 30%

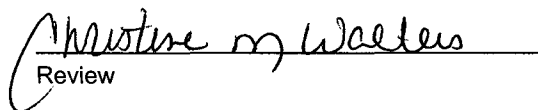
Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	41.8	50.0	91.7	99.9%	39 - 150
Toluene	9.0	50.0	58.9	99.8%	46 - 148
Ethylbenzene	45.3	50.0	95.2	99.9%	32 - 160
p,m-Xylene	24.9	100	124	99.5%	46 - 148
o-Xylene	17.2	50.0	67.1	99.9%	46 - 148

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 31709 - 31711, 31705 - 31707.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

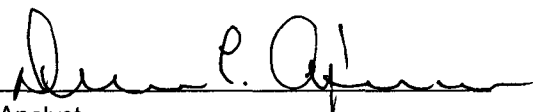
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	01-20-05
Laboratory Number:	31706	Date Sampled:	01-19-05
Chain of Custody No:	13496	Date Received:	01-19-05
Sample Matrix:	Soil	Date Extracted:	01-19-05
Preservative:	Cool	Date Analyzed:	01-20-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

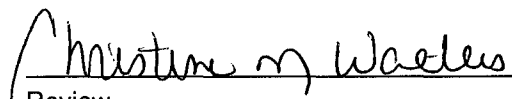
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

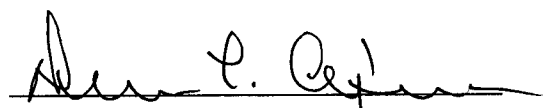
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	01-20-05
Laboratory Number:	31707	Date Sampled:	01-19-05
Chain of Custody No:	13496	Date Received:	01-19-05
Sample Matrix:	Soil	Date Extracted:	01-19-05
Preservative:	Cool	Date Analyzed:	01-20-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

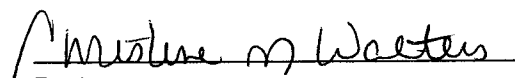
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-20-TPH QA/QC	Date Reported:	01-20-05
Laboratory Number:	31706	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-20-05
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	1.5131E-002	1.5116E-002	0.10%	0 - 15%
Diesel Range C10 - C28	02-19-04	1.5356E-002	1.5340E-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

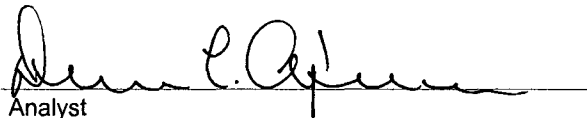
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

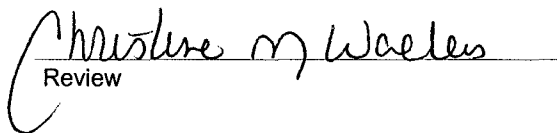
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 31706 - 31707.


Analyst


Review

13496

san juan reproduction 578-129



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Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

2004 NOV 12 PM 2:10
Phone: 505-327-4935
Fax: 505-327-4962

November 10, 2004 Third Quarter 2004

Ed Martin
Environmental Engineer
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

NM-1-0009

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RECEIVED
NOV 15 2004
Per. *[Signature]*

RE: Key Energy Landfarm Subsurface Report

Mr. Martin:

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.
Please note that the original CELL #1 sampled on 10-18-04 indicated abnormal levels of Btex. It was then decided to resample Cell #1 5' adjacent the 1st sample spot. This change of location is indicated on the Land Farm drawing.
It is my belief that the 1st sample was accidentally contaminated while recovering the sample soil.

If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186 or email at mtalovich@keyenergy.com

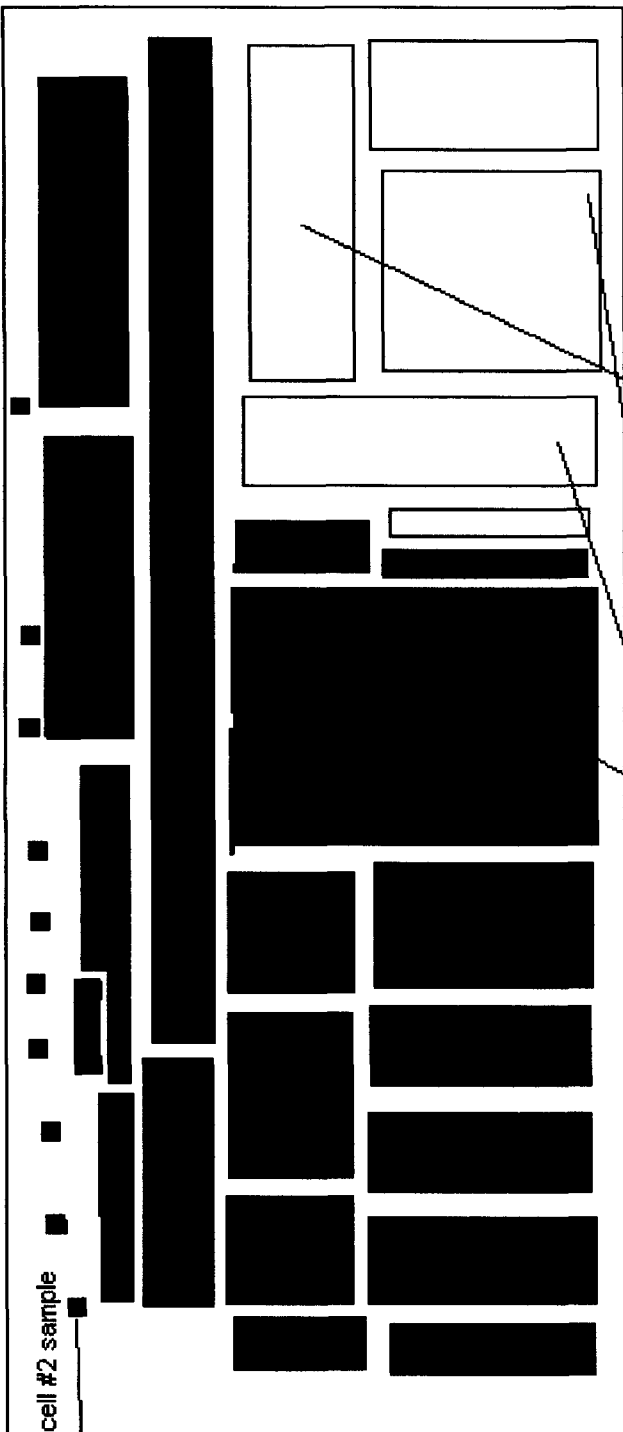
Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

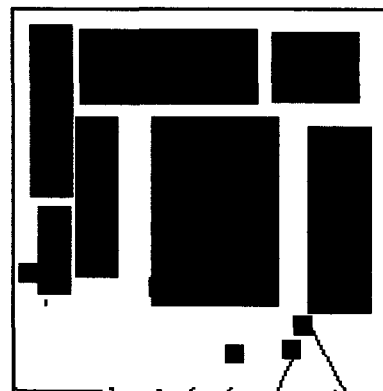
cc: Mr. Coberly KEY
Mr. Foust NMOCD

Nov 10 2004

Landfarm cell #2 sample
point



NORTH



Original
Landfarm cell #1 sample point

2nd Test sample point on 11-03-04 CELL #1

October 21, 2004

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

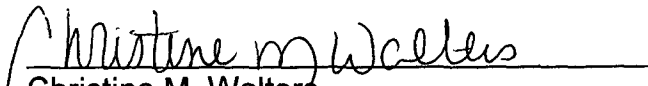
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm.". Two soil samples were collected by Key Energy Service designated personnel on 10/18/04, and received by the Envirotech laboratory on 10/18/04 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 13200. The samples were assigned Laboratory Nos. 31008 (Cell #1) and 31009 (Cell #2) for tracking purposes.

The samples were analyzed 10/21/04 and 4/23/04 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

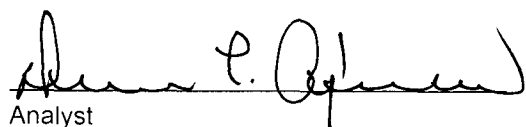
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	10-21-04
Laboratory Number:	31008	Date Sampled:	10-18-04
Chain of Custody No:	13200	Date Received:	10-18-04
Sample Matrix:	Soil	Date Extracted:	10-20-04
Preservative:	Cool	Date Analyzed:	10-21-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

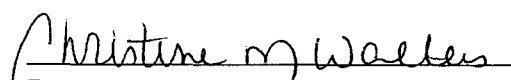
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

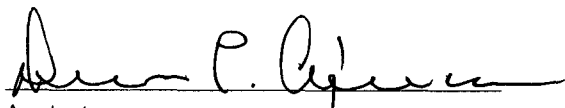
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	10-21-04
Laboratory Number:	31009	Date Sampled:	10-18-04
Chain of Custody No:	13200	Date Received:	10-18-04
Sample Matrix:	Soil	Date Extracted:	10-20-04
Preservative:	Cool	Date Analyzed:	10-21-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

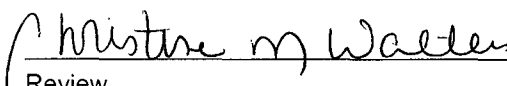
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-21-TPH QA/QC	Date Reported:	10-21-04
Laboratory Number:	30876	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-21-04
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

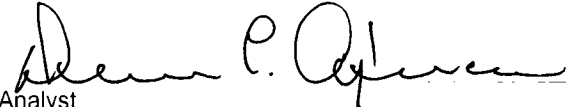
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

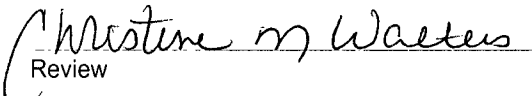
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 30876, 31008 - 31009, 31027 - 31028.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	10-21-04
Laboratory Number:	31008	Date Sampled:	10-18-04
Chain of Custody:	13200	Date Received:	10-18-04
Sample Matrix:	Soil	Date Analyzed:	10-21-04
Preservative:	Cool	Date Extracted:	10-20-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	18.8	1.8
Toluene	18.6	1.7
Ethylbenzene	18.7	1.5
p,m-Xylene	35.8	2.2
o-Xylene	15.2	1.0
Total BTEX	107	

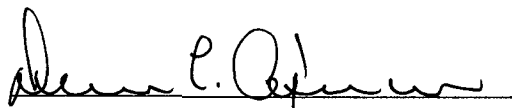
ND - Parameter not detected at the stated detection limit.

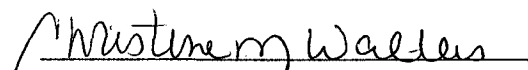
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Landfarm.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	10-21-04
Laboratory Number:	31009	Date Sampled:	10-18-04
Chain of Custody:	13200	Date Received:	10-18-04
Sample Matrix:	Soil	Date Analyzed:	10-21-04
Preservative:	Cool	Date Extracted:	10-20-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

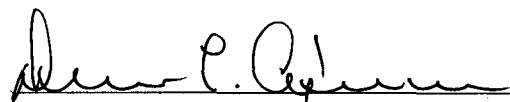
ND - Parameter not detected at the stated detection limit.

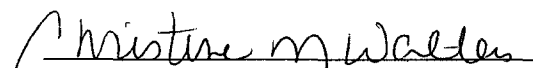
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Landfarm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	10-21-BTEX QA/QC	Date Reported:	10-21-04
Laboratory Number:	30876	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-21-04
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	2.8990E-001	2.9077E-001	0.3%	ND	0.2
Toluene	2.5460E-002	2.5511E-002	0.2%	ND	0.2
Ethylbenzene	3.8451E-002	3.8567E-002	0.3%	ND	0.2
p,m-Xylene	3.2988E-002	3.3088E-002	0.3%	ND	0.2
o-Xylene	3.3333E-002	3.3400E-002	0.2%	ND	0.1

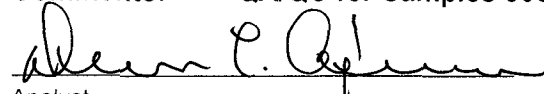
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

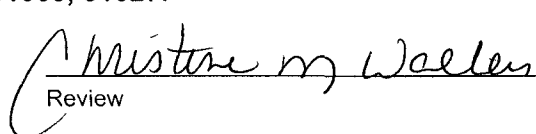
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	50.0	100.0%	46 - 148
Ethylbenzene	ND	50.0	50.0	100.0%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	50.0	100.0%	46 - 148

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 30876, 31008 - 31009, 31027.


Analyst


Review

13200

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

2ND Sample

November 5, 2004

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

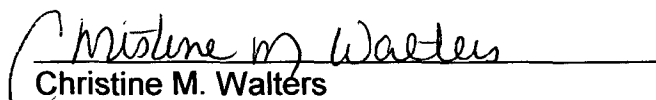
Enclosed are the analytical results for the sample collected from the location designated as "Cell #1". One soil sample was collected by Key Energy Service designated personnel on 11/03/04, and received by the Envirotech laboratory on 11/03/04 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The sample was documented on Envirotech Chain of Custody No. 13238. The sample was assigned Laboratory Nos. 31122 (Cell #1) for tracking purposes.

The sample was analyzed 11/04/04 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

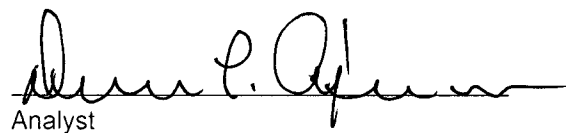
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	11-04-04
Laboratory Number:	31122	Date Sampled:	11-03-04
Chain of Custody No:	13238	Date Received:	11-03-04
Sample Matrix:	Soil	Date Extracted:	11-04-04
Preservative:	Cool	Date Analyzed:	11-04-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

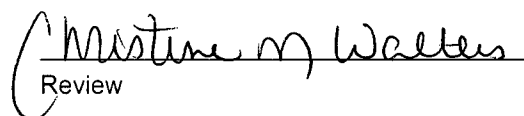
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Cell #1.


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-04-TPH QA/QC	Date Reported:	11-04-04
Laboratory Number:	31076	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-04-04
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

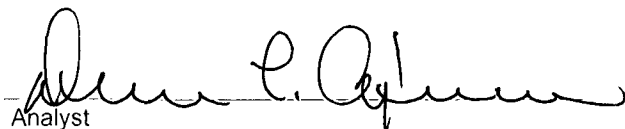
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

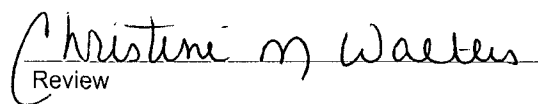
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 31076 - 31081, 31122.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	11-04-04
Laboratory Number:	31122	Date Sampled:	11-03-03
Chain of Custody:	13238	Date Received:	11-03-03
Sample Matrix:	Soil	Date Analyzed:	11-04-04
Preservative:	Cool	Date Extracted:	11-04-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

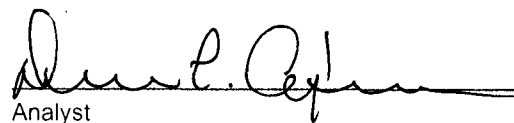
ND - Parameter not detected at the stated detection limit.

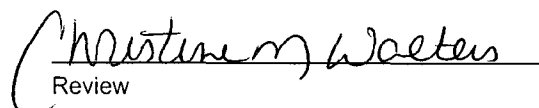
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

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: Cell #1.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	11-04-BTEX QA/QC	Date Reported:	11-04-04
Laboratory Number:	31123	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-04-04
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	8.1713E-002	8.1959E-002	0.3%	ND	0.2
Toluene	5.5302E-002	5.5413E-002	0.2%	ND	0.2
Ethylbenzene	8.4042E-002	8.4295E-002	0.3%	ND	0.2
p,m-Xylene	7.6479E-002	7.6710E-002	0.3%	ND	0.2
o-Xylene	8.6529E-002	8.6703E-002	0.2%	ND	0.1

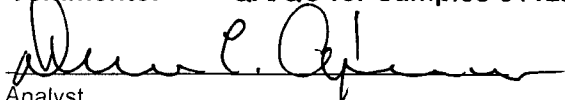
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	102	100	2.1%	0 - 30%	1.7
Ethylbenzene	6.5	6.3	3.1%	0 - 30%	1.5
p,m-Xylene	155	153	1.2%	0 - 30%	2.2
o-Xylene	86.9	85.9	1.2%	0 - 30%	1.0

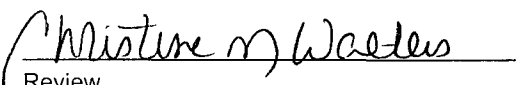
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	102	50.0	151	99.3%	46 - 148
Ethylbenzene	6.5	50.0	56.4	99.8%	32 - 160
p,m-Xylene	155	100	254	99.7%	46 - 148
o-Xylene	86.9	50.0	136	99.6%	46 - 148

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 31122 - 31123.


Analyst


Review

13238

san juan reproduction 578-129



RECEIVED

AUG 03 2004

OIL CONSERVATION
DIVISION

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

July 27, 2004

Second Quarter 2004

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

NM-1-0009

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

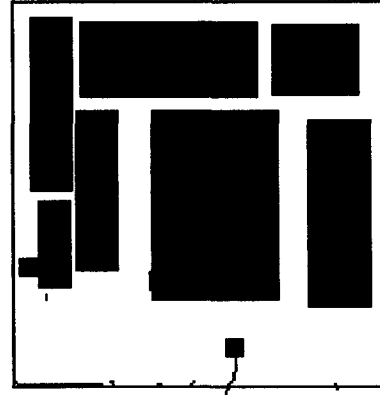
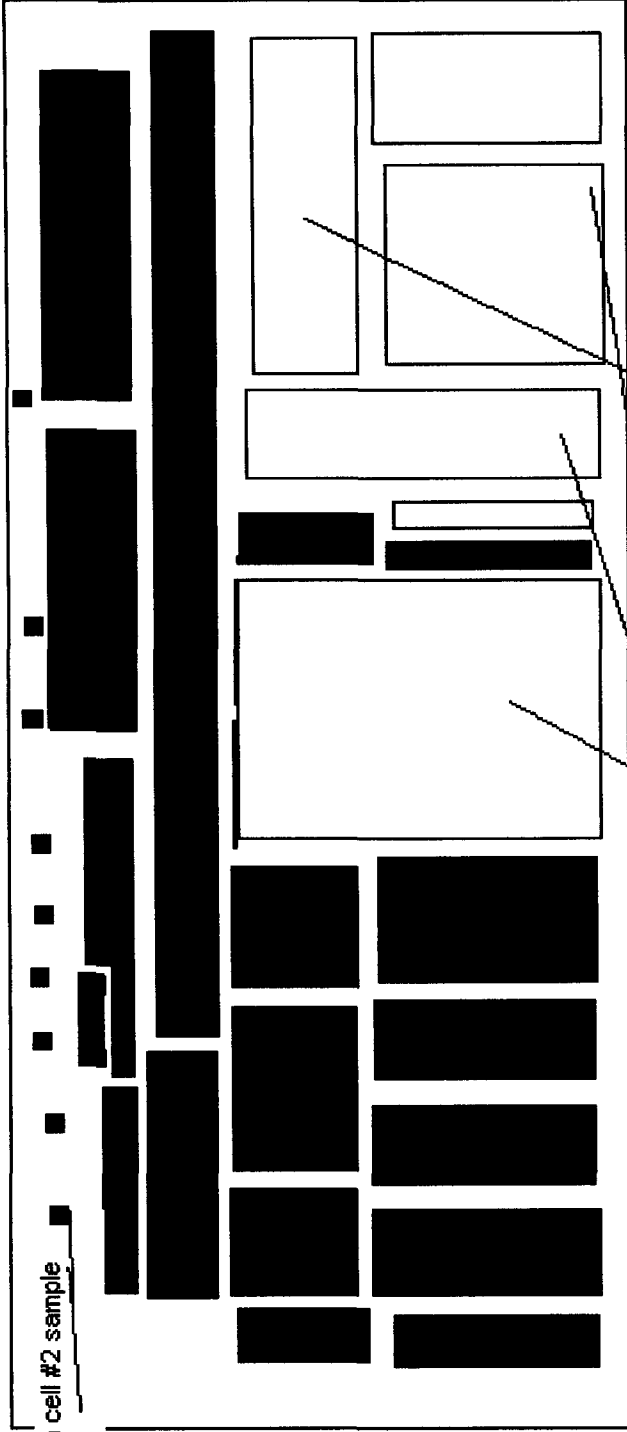
If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

Best Regards:

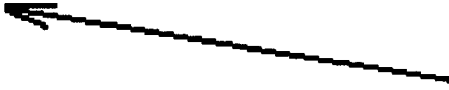
Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Putman KEY
Mr. Foust NMOCD

JULY 27, 2004



NORTH



Landfarm cell #1 sample point

Landfarm cell #2 sample point

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 21, 2004

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

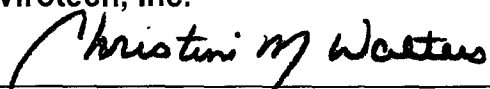
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 7/15/04, and received by the Envirotech laboratory on 7/19/04 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 12599. The samples were assigned Laboratory Nos. 29574 (Cell #1) and 29575 (Cell #2) for tracking purposes.

The samples were analyzed on 7/20/04 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

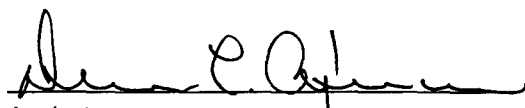
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-20-04
Laboratory Number:	29574	Date Sampled:	07-15-04
Chain of Custody No:	12599	Date Received:	07-19-04
Sample Matrix:	Soil	Date Extracted:	07-20-04
Preservative:	Cool	Date Analyzed:	07-20-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

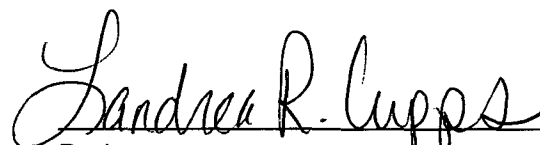
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

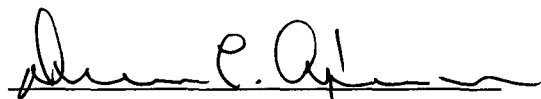
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-20-04
Laboratory Number:	29575	Date Sampled:	07-15-04
Chain of Custody No:	12599	Date Received:	07-19-04
Sample Matrix:	Soil	Date Extracted:	07-20-04
Preservative:	Cool	Date Analyzed:	07-20-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

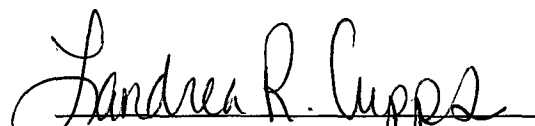
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-20-TPH QA/QC	Date Reported:	07-20-04
Laboratory Number:	29565	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-20-04
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

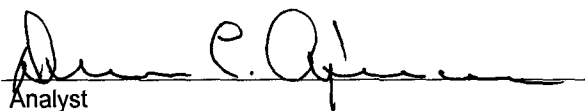
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	12.9	12.8	0.8%	0 - 30%

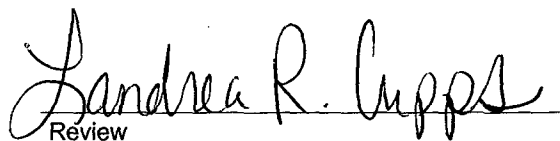
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	12.9	250	262	99.8%	75 - 125%

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 29565 - 29567, 29574 - 29575.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-20-04
Laboratory Number:	29574	Date Sampled:	07-15-04
Chain of Custody:	12599	Date Received:	07-19-04
Sample Matrix:	Soil	Date Analyzed:	07-20-04
Preservative:	Cool	Date Extracted:	07-20-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

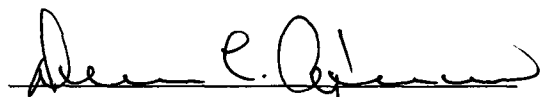
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Landfarm.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-20-04
Laboratory Number:	29575	Date Sampled:	07-15-04
Chain of Custody:	12599	Date Received:	07-19-04
Sample Matrix:	Soil	Date Analyzed:	07-20-04
Preservative:	Cool	Date Extracted:	07-20-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

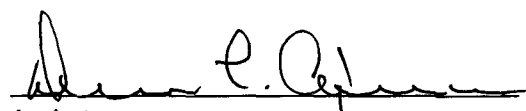
ND - Parameter not detected at the stated detection limit.

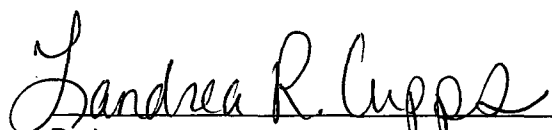
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Landfarm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	07-20-BTEX QA/QC	Date Reported:	07-20-04
Laboratory Number:	29566	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-20-04
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

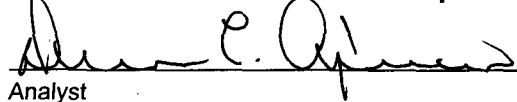
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	2.6	2.5	3.8%	0 - 30%	1.7
Ethylbenzene	30.6	30.0	2.0%	0 - 30%	1.5
p,m-Xylene	71.8	74.0	3.1%	0 - 30%	2.2
o-Xylene	35.7	36.8	3.1%	0 - 30%	1.0

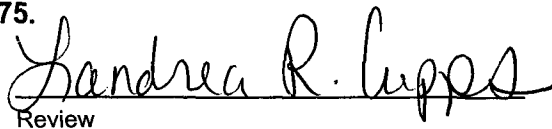
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	2.6	50.0	52.5	99.8%	46 - 148
Ethylbenzene	30.6	50.0	80.5	99.9%	32 - 160
p,m-Xylene	71.8	100	171	99.4%	46 - 148
o-Xylene	35.7	50.0	85.5	99.8%	46 - 148

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 29566, 29574 - 29575.


Analyst


Review

12599

San Juan reproduction 578-129



RECEIVED

MAY 07 2004
Environmental Bureau
Oil Conservation Division

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

May 6, 2004

First Quarter 2004

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

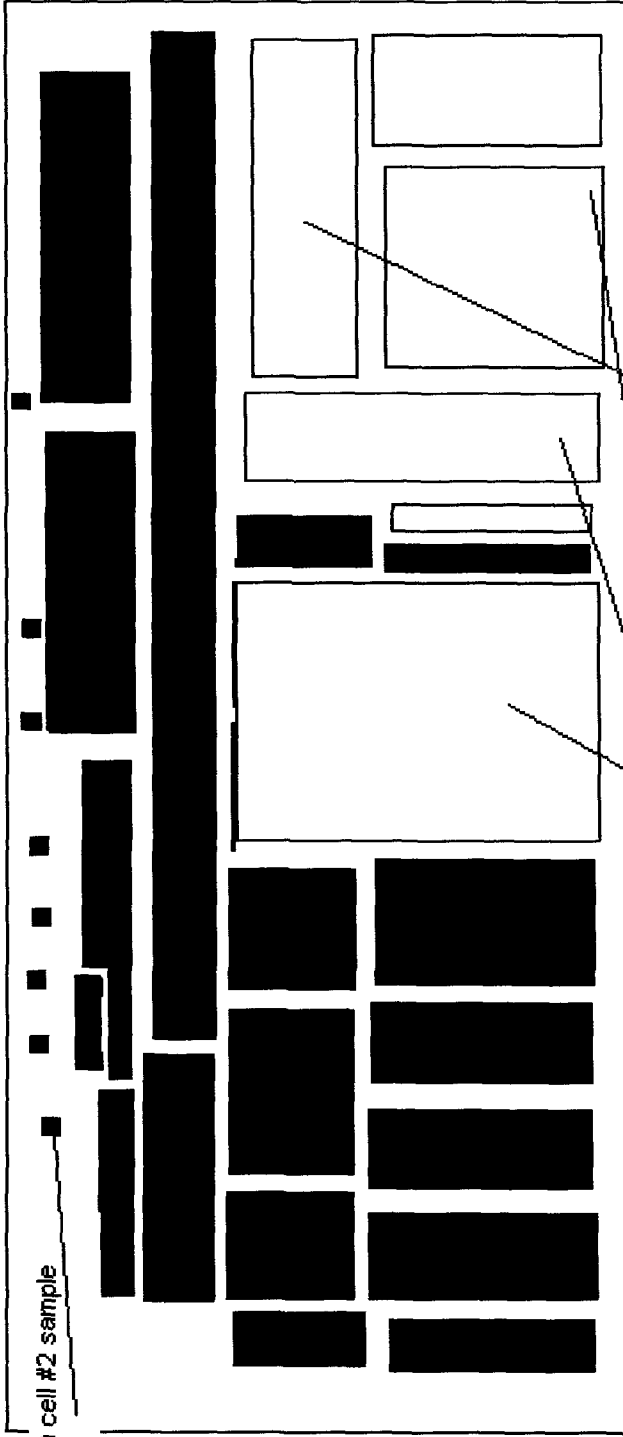
If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

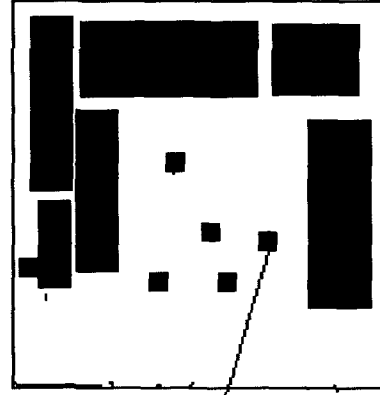
cc: Mr. Putman KEY
Mr. Foust NMOCD

May 6, 2004



Landfarm cell #2 sample point

cleared areas



Landfarm cell #1 sample point

NORTH

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 23, 2004

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

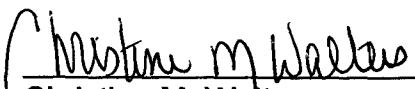
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 4/19/04, and received by the Envirotech laboratory on 4/20/04 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 12023. The samples were assigned Laboratory Nos. 28425 (Cell #1) and 28426 (Cell #2) for tracking purposes.

The samples were analyzed on 4/21/04 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	04-21-04
Laboratory Number:	28425	Date Sampled:	04-19-04
Chain of Custody:	12023	Date Received:	04-20-04
Sample Matrix:	Soil	Date Analyzed:	04-21-04
Preservative:	Cool	Date Extracted:	04-21-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

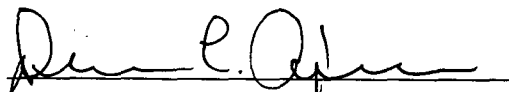
ND - Parameter not detected at the stated detection limit.

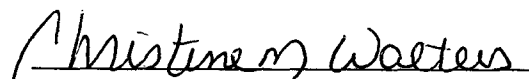
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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: Land Farm.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	04-21-04
Laboratory Number:	28426	Date Sampled:	04-19-04
Chain of Custody:	12023	Date Received:	04-20-04
Sample Matrix:	Soil	Date Analyzed:	04-21-04
Preservative:	Cool	Date Extracted:	04-21-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

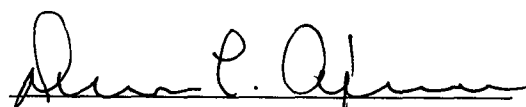
ND - Parameter not detected at the stated detection limit.

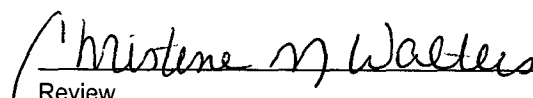
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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: Land Farm.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-21-BTEX QA/QC	Date Reported:	04-21-04
Laboratory Number:	28391	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-21-04
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

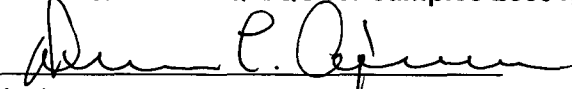
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

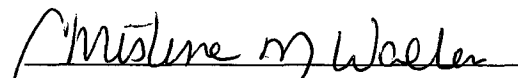
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 28391, 28422 - 28423, 28425 - 28426.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

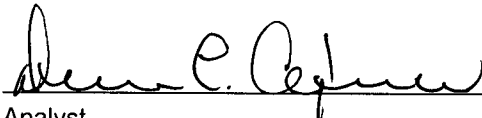
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	04-21-04
Laboratory Number:	28425	Date Sampled:	04-19-04
Chain of Custody No:	12023	Date Received:	04-20-04
Sample Matrix:	Soil	Date Extracted:	04-21-04
Preservative:	Cool	Date Analyzed:	04-21-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

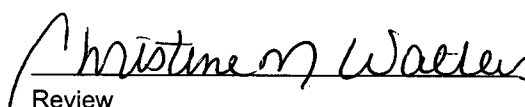
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Land Farm.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

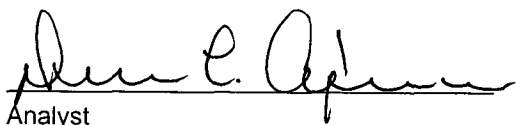
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	04-21-04
Laboratory Number:	28426	Date Sampled:	04-19-04
Chain of Custody No:	12023	Date Received:	04-20-04
Sample Matrix:	Soil	Date Extracted:	04-21-04
Preservative:	Cool	Date Analyzed:	04-21-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

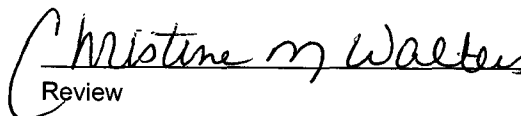
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Land Farm.**


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:	04-21-TPH QA/QC	Date Reported:	04-21-04
Laboratory Number:	28391	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-21-04
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

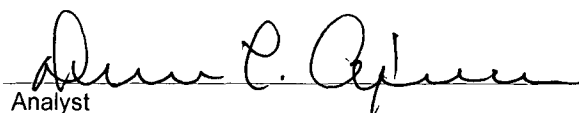
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

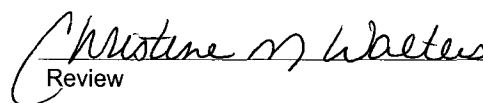
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 28391, 28421 - 28423, 28425 - 28426, 28434 - 28436.


Analyst


Review

12023

san juan reproduction 578-129



RECEIVED

JAN 28 2004
Environmental Bureau
Oil Conservation Division

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

January 27, 2004

Fourth Quarter 2003

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

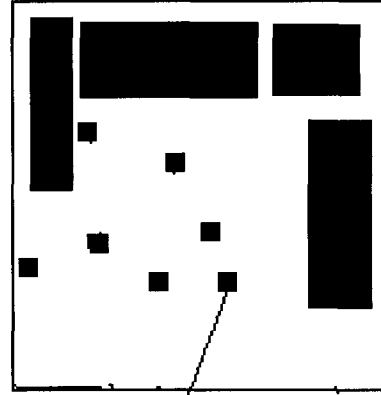
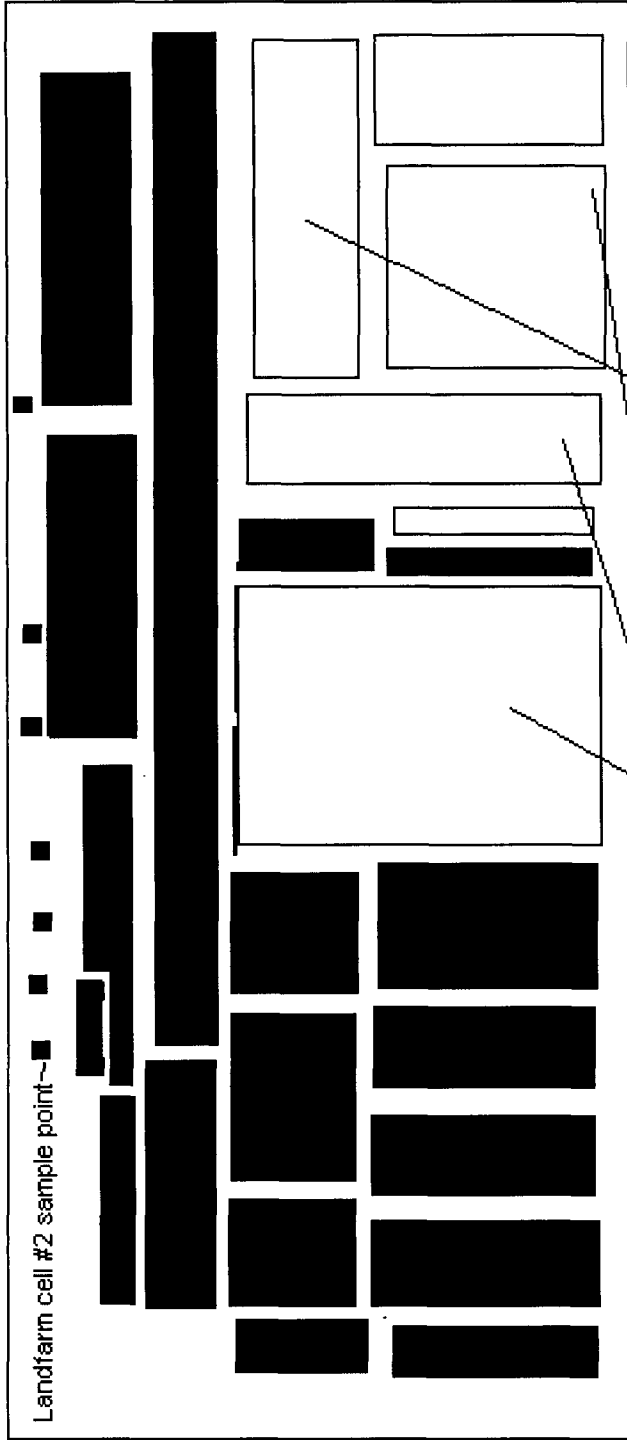
Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Putman KEY
Mr. Foust NMOCD

JANUARY 26, 2004

NORTH



Landfarm cell #1 sample point

cleared areas

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 20, 2004

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

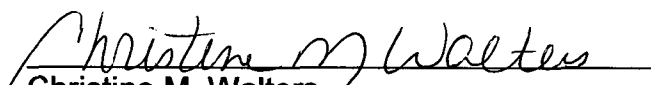
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 1/19/04, and received by the Envirotech laboratory on 1/20/04 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 11748. The samples were assigned Laboratory Nos. 27578 (Cell #1) and 27579 (Cell #2) for tracking purposes.

The samples were analyzed on 1/20/04 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.



Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

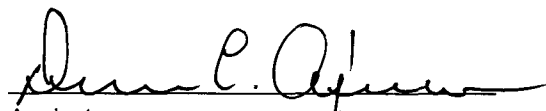
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	01-20-04
Laboratory Number:	27578	Date Sampled:	01-19-04
Chain of Custody No:	11748	Date Received:	01-20-04
Sample Matrix:	Soil	Date Extracted:	01-20-04
Preservative:	Cool	Date Analyzed:	01-20-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

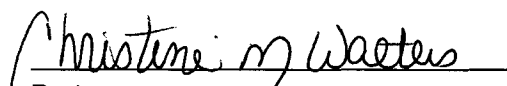
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Land Farm.**


Analyst


Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

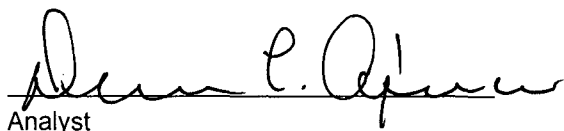
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	01-20-04
Laboratory Number:	27579	Date Sampled:	01-19-04
Chain of Custody No:	11748	Date Received:	01-20-04
Sample Matrix:	Soil	Date Extracted:	01-20-04
Preservative:	Cool	Date Analyzed:	01-20-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

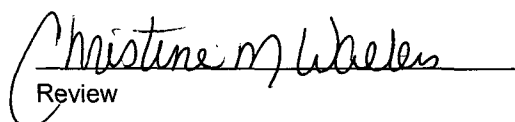
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Land Farm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-20-TPH QA/QC	Date Reported:	01-20-04
Laboratory Number:	27574	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-20-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	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

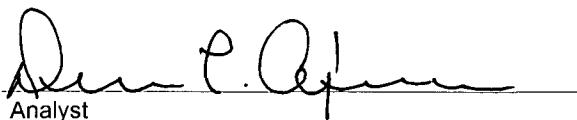
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

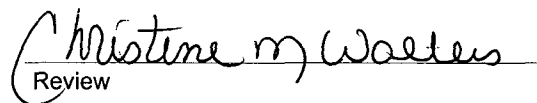
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 27574 - 27576, 27578 - 27579, 27590.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	01-20-04
Laboratory Number:	27578	Date Sampled:	01-19-04
Chain of Custody:	11748	Date Received:	01-20-04
Sample Matrix:	Soil	Date Analyzed:	01-20-04
Preservative:	Cool	Date Extracted:	01-20-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

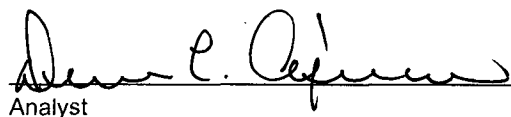
ND - Parameter not detected at the stated detection limit.

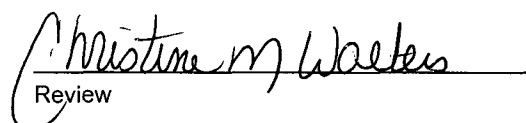
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Land Farm.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	01-20-04
Laboratory Number:	27579	Date Sampled:	01-19-04
Chain of Custody:	11748	Date Received:	01-20-04
Sample Matrix:	Soil	Date Analyzed:	01-20-04
Preservative:	Cool	Date Extracted:	01-20-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

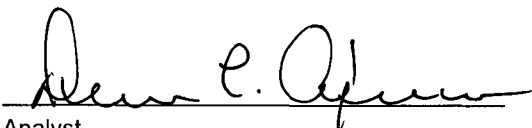
ND - Parameter not detected at the stated detection limit.

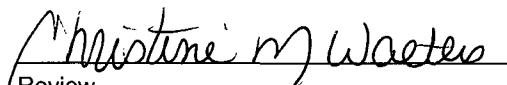
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Land Farm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	01-20-BTEX QA/QC	Date Reported:	01-20-04
Laboratory Number:	27576	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-20-04
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

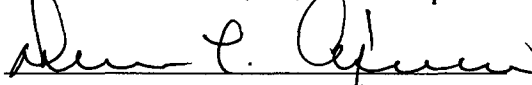
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	27.4	28.1	2.6%	0 - 30%	1.8
Toluene	276	271	2.0%	0 - 30%	1.7
Ethylbenzene	196	192	2.0%	0 - 30%	1.5
p,m-Xylene	1,340	1,380	3.0%	0 - 30%	2.2
o-Xylene	836	857	2.5%	0 - 30%	1.0

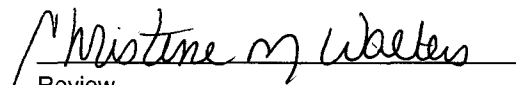
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	27.4	50.0	77.3	99.9%	39 - 150
Toluene	276	50.0	325	99.5%	46 - 148
Ethylbenzene	196	50.0	245	99.4%	32 - 160
p,m-Xylene	1,340	100	1,430	99.3%	46 - 148
o-Xylene	836	50.0	885	99.8%	46 - 148

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 27576, 27578 - 27579.


Analyst


Review

11748

[illegible]

16754 West 75th Place
Arvada, CO 80007
Phone: 303-910-8497
Fax: 303-456-9558

*Denver**Ft. Collins*

To: Martyn Kieling Fax: 505-476-3462
From: Tom K. Martella Date: 12/03/03
Re: Analytical results M&M Truck Stop Pages (including cover): 15
CC: _____

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Notes: Attached are the analytical results for June. I haven't received the results from the most recent sampling event. Benzene concentrations are, in most cases, below detection limits or below the MCL. However, monitor well MW-20 does exceed the limit, but is not located near the wells where Enhanced Fluids Recovery (EFR) is performed. I've also enclosed a map of the property. Diesel fuel is recovered from the sumps in back of the property and degraded gasoline is recovered from MW-10R, located in the front of the property. I'll also e-mail the historic analytical data for your review. Let me know if you need anything else.

Thanks

TK

CONFIDENTIAL

Capco Analytical Services Incorporated (CAS)
1536 Eastman Avenue, Suite B
Ventura, CA. 93003
(805) 644-1095

Prepared For: Innovative Solutions Tech. June 19, 2003
1401 Blake Suite 200
Denver, CO 80202

ATTENTION: Tom Martella

Laboratory No: 031243 Job No: B05541
Date Received: 27-MAY-03 Sampled By: Client
Project: M&M Truck Stop ID: See Below

RESULTS

On May 27, 2003 twelve (12) samples were received for analysis by Capco Analytical Services Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 13 pages excluding the cover letter, and the Chain of Custody.

<u>SAMPLE DESCRIPTION</u>	<u>CAS LAB NUMBER</u>
MW-1	03124301
MW-5R	03124302
MW-12R	03124303
MW-16	03124304
MW-18	03124305
MW-20	03124306
MW-22	03124307
MW-23	03124308
MW-25	03124309
MW-26	03124310
MW-27	03124311
MW-28	03124312


Dan A. Farah, Ph.D.
Director - Analytical Operations

This report shall not be reproduced except in full without the written approval of Capco Analytical Services Inc. The test results reported represent only the items being tested and may not represent the entire material from which the sample was taken.

CAPCO
Analytical
Services, Inc.

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

AROMATIC VOLATILE COMPOUNDS - EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L	Surrogate Rec. (%)
----------	-----------------------	--------------------	-------------	-----------------------

CAS Lab #: 03124301
Sample ID: MW-1

Date Analyzed: 05/27/03

Benzene	0.79	1.0	0.3	--
Toluene	0.37	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	1.48	1.0	0.6	--
MTBE	5.56	1.0	5	--

4-Bromofluorobenzene

98

CAS Lab #: 03124302
Sample ID: MW-5R

Date Analyzed: 05/27/03

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	0.87	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

102

Surrogate Control Limits: 80 - 110%

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Amsay
Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

AROMATIC VOLATILE COMPOUNDS - EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L	Surrogate Rec. (%)
----------	-----------------------	--------------------	-------------	-----------------------

CAS Lab #: 03124303

Date Analyzed: 05/27/03

Sample ID: MW-12R

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	BQL	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

102

CAS Lab #: 03124304

Date Analyzed: 05/27/03

Sample ID: MW-16

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	1.56	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

105

Surrogate Control Limits: 80 - 110%

PQL: Practical Quantitation Limit

BQL: Below Practical Quantitation Limit

Am Jay
Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

AROMATIC VOLATILE COMPOUNDS - EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L	Surrogate Rec. (%)
----------	-----------------------	--------------------	-------------	-----------------------

CAS Lab #: 03124305
Sample ID: MW-18

Date Analyzed: 05/27/03

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	BQL	1.0	0.6	--
MTBE	480	10	50	--

4-Bromofluorobenzene

103

CAS Lab #: 03124306
Sample ID: MW-20

Date Analyzed: 05/27/03

Benzene	2600	100	30	--
Toluene	260	100	30	--
Ethylbenzene	350	100	30	--
Xylenes	4980	100	60	--
MTBE	1200	100	500	--

4-Bromofluorobenzene

88

Surrogate Control Limits: 80 - 110%

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Amy Joy
Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

AROMATIC VOLATILE COMPOUNDS - EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L	Surrogate Rec. (%)
----------	-----------------------	--------------------	-------------	-----------------------

CAS Lab #: 03124307
Sample ID: MW-22

Date Analyzed: 05/27/03

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	1.27	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

100

CAS Lab #: 03124308
Sample ID: MW-23

Date Analyzed: 05/27/03

Benzene	2	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	1.0	1.0	0.3	--
Xylenes	13.9	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

94

Surrogate Control Limits: 80 - 110%

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

Amy Jay
Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

AROMATIC VOLATILE COMPOUNDS - EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L	Surrogate Rec. (%)
----------	-----------------------	--------------------	-------------	-----------------------

CAS Lab #: 03124309
Sample ID: MW-25

Date Analyzed: 05/27/03

Benzene	0.62	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	0.5	1.0	0.3	--
Xylenes	7.4	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

104

CAS Lab #: 03124310
Sample ID: MW-26

Date Analyzed: 05/27/03

Benzene	2.9	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	8.6	1.0	0.3	--
Xylenes	6.5	1.0	0.6	--
MTBE	139	10	50	--

4-Bromofluorobenzene

98

Surrogate Control Limits: 80 - 110%

PQL: Practical Quantitation Limit

BQL: Below Practical Quantitation Limit

Amy Joy
Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

AROMATIC VOLATILE COMPOUNDS - EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L	Surrogate Rec. (%)
----------	-----------------------	--------------------	-------------	-----------------------

CAS Lab #: 03124311
Sample ID: MW-27

Date Analyzed: 05/27/03

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	2.45	1.0	0.6	--
MTBE	28	1.0	5	--

4-Bromofluorobenzene

107

CAS Lab #: 03124312
Sample ID: MW-28

Date Analyzed: 05/27/03

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	1.78	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

104

Surrogate Control Limits: 80 - 110%

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

A m J a s
Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

AROMATIC VOLATILE COMPOUNDS - EPA Method 8020

Compound	Concentration ug/L	Dilution Factor	PQL ug/L	Surrogate Rec. (%)
----------	-----------------------	--------------------	-------------	-----------------------

CAS Lab #: 031243-MB

Date Analyzed: 05/27/03

Sample ID: Method Blank

Benzene	BQL	1.0	0.3	--
Toluene	BQL	1.0	0.3	--
Ethylbenzene	BQL	1.0	0.3	--
Xylenes	BQL	1.0	0.6	--
MTBE	BQL	1.0	5	--

4-Bromofluorobenzene

104

Surrogate Control Limits: 80 - 110%

PQL: Practical Quantitation Limit

BQL: Below Practical Quantitation Limit

Amjay
Principal Analyst

Capco Analytical Services INC. (CAS)
1536 Eastman Avenue, Suite B
Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
=====			
CAS Lab #: 03124301			Date Analyzed: 05/27/03
Sample ID: MW-1			
TPH as Gasoline	0.08	1.0	0.05
CAS Lab #: 03124302			Date Analyzed: 05/27/03
Sample ID: MW-5R			
TPH as Gasoline	BQL	1.0	0.05
CAS Lab #: 03124303			Date Analyzed: 05/27/03
Sample ID: MW-12R			
TPH as Gasoline	BQL	1.0	0.05
CAS Lab #: 03124304			Date Analyzed: 05/27/03
Sample ID: MW-16			
TPH as Gasoline	BQL	1.0	0.05

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AmJar
Principal Analyst

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(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
=====			
CAS Lab #: 03124305 Sample ID: MW-18			Date Analyzed: 05/27/03
TPH as Gasoline	0.46	1.0	0.05
CAS Lab #: 03124306 Sample ID: MW-20			Date Analyzed: 05/27/03
TPH as Gasoline	120	100	5
CAS Lab #: 03124307 Sample ID: MW-22			Date Analyzed: 05/27/03
TPH as Gasoline	BQL	1.0	0.05
CAS Lab #: 03124308 Sample ID: MW-23			Date Analyzed: 05/27/03
TPH as Gasoline	0.23	1.0	0.05

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AJ
Principal Analyst

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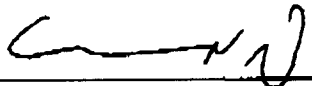
Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
=====			
CAS Lab #: 03124309 Sample ID: MW-25		Date Analyzed: 05/27/03	
TPH as Gasoline	0.10	1.0	0.05
CAS Lab #: 03124310 Sample ID: MW-26		Date Analyzed: 05/27/03	
TPH as Gasoline	1.23	1.0	0.05
CAS Lab #: 03124311 Sample ID: MW-27		Date Analyzed: 05/27/03	
TPH as Gasoline	BQL	1.0	0.05
CAS Lab #: 03124312 Sample ID: MW-28		Date Analyzed: 05/27/03	
TPH as Gasoline	BQL	1.0	0.05

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit


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(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: AJ
Date Received: 05/27/03

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L
=====			
CAS Lab #: 031243-MB		Date Analyzed: 05/27/03	
Sample ID: Method Blank			
TPH as Gasoline	BQL	1.0	0.05

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

A. M. Jay
Principal Analyst

CAPCO
Analytical
Services, Inc.

Capco Analytical Services INC. (CAS)
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(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

Analyst: JD
Date Received: 05/27/03

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L	Surrogate % Rec.
=====				
CAS Lab #: 03124302			Date Extracted: 06/03/03	
Client ID: MW-5R			Date Analyzed: 06/12/03	
TPH - Diesel	BQL	1.0	0.5	48*
CAS Lab #: 03124307			Date Extracted: 06/03/03	
Client ID: MW-22			Date Analyzed: 06/12/03	
TPH - Diesel	BQL	1.0	0.5	66
CAS Lab #: 03124308			Date Extracted: 06/03/03	
Client ID: MW-23			Date Analyzed: 06/12/03	
TPH - Diesel	16	2.0	1.0	81
CAS Lab #: 03124309			Date Extracted: 06/03/03	
Client ID: MW-25			Date Analyzed: 06/12/03	
TPH - Diesel	BQL	1.0	0.5	68

*Low surrogate recovery due to matrix interference
Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJag
Principal Analyst

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Ventura CA 93003
(805) 644-1095

Client: Innovative Solutions
Lab ID: 031243
Matrix: Water

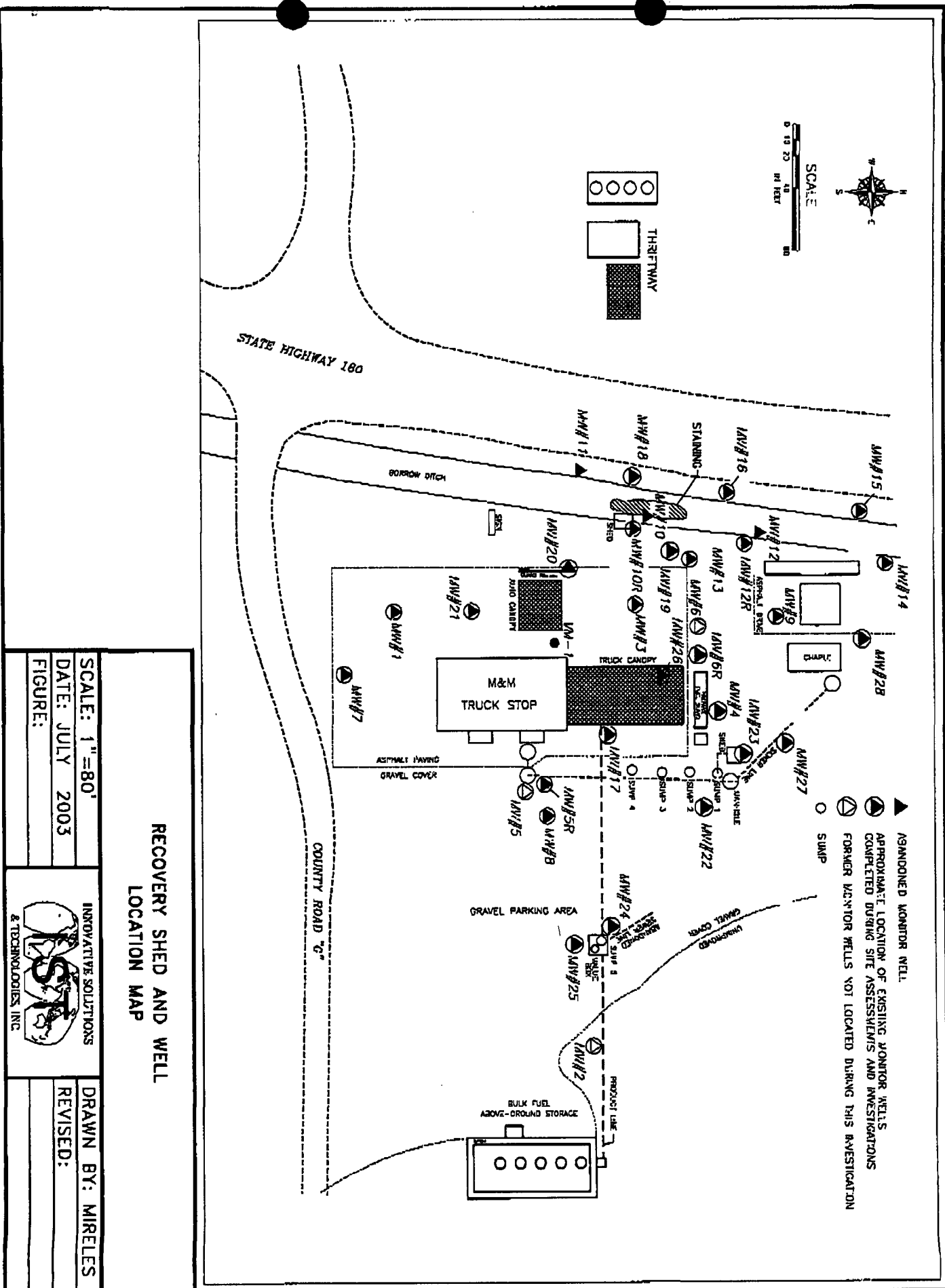
Analyst: JD
Date Received: 05/27/03

TOTAL PETROLEUM HYDROCARBONS
EPA METHOD 8015m

Compound	Concentration mg/L	Dilution Factor	PQL mg/L	Surrogate % Rec.
=====				
CAS Lab #: 03124310			Date Extracted: 06/03/03	
Client ID: MW-26			Date Analyzed: 06/12/03	
TPH - Diesel	2.4	1.0	0.5	84
CAS Lab #: 03124311			Date Extracted: 06/03/03	
Client ID: MW-27			Date Analyzed: 06/12/03	
TPH - Diesel	2.0	1.0	0.5	57
CAS Lab #: 03124312			Date Extracted: 06/03/03	
Client ID: MW-28			Date Analyzed: 06/12/03	
TPH - Diesel	BQL	1.0	0.5	82
CAS Lab #: 031243-MB			Date Extracted: 06/03/03	
Client ID: Method Blank			Date Analyzed: 06/12/03	
TPH - Diesel	BQL	1.0	0.5	101

Surrogate: n-Undecane
Surrogate Control Limits: 57 - 114 %
PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

A. H. J.
Principal Analyst



TRANSACTION REPORT

P.01

DEC-03-2003 WED 10:58 AM

FOR:

RECEIVE

DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE	M#	DP
DEC-03	10:56 AM	303 456 9558	1'53"	16	RECEIVE	OK		

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Appendix B Historic Analytical Results		MTBE (µg/L)	TVPH (mg/L)	TEPH (mg/L)	DO (mg/L)
				Ethyl benzene (µg/L)	Xylenes (µg/L)				
	OIS Limit	5.0	1000	680	10,000	NS	NS	NS	NS
MW-1	11/19/1998	0.33	0.60	BQL1	BQL2	NA	NA	BQL3	NA
	2/16/1999	18	0.51	BQL1	1.1	NA	NA	BQL3	NA
	5/18/1999	15	0.39	BQL1	0.73	NA	NA	BQL3	NA
	8/14/1999	BQL1	0.97	0.54	3.4	NA	BQL3	BQL3	NA
	12/8/1999	0.71	0.44	BQL1	0.62	NA	0.08	BQL3	NA
	2/29/2000	50	BQL1	0.34	BQL2	NA	0.26	BQL3	NA
	6/13/2000	110	0.52	0.34	1.7	NA	0.58	BQL3	2.54
	8/29/2000	BQL1	BQL1	BQL1	BQL2	NA	0.06	0.68	0.33
	11/13/2000	NA	NA	NA	NA	NA	NA	NA	NA
	2/21/2001	<0.8	<3.0	<0.4	<1.6	4.4	<0.10	0.7	3.28
	5/31/2001	NA	NA	NA	NA	NA	NA	NA	NA
	9/11/2001	73	BQL1	BQL1	BQL2	BQL5	BQL3	NA	0.06
	11/16/2001	84	0.96	0.83	1.3	NA	0.08	NA	1.58
	3/22/2002	1347	1.05	1.5	5.8	NA	0.19	6.0	0.75
	5/24/2002	23	0.51	0.4	1.5	<5	0.10	NA	0.31
	8/28/2002	BQL1	BQL1	BQL1	BQL2	BQL5	0.06	NA	0.23
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	0.13	NA	0.16
	2/18/2003	MC	MC	MC	MC	MC	MC	MC	MC
	5/20/2003	0.79	0.37	BQL1	1.48	5.56	0.08	NS	0.04
MW-3	11/19/1998	250	2.10	0.34	2	NA	NA	NA	NA
	2/16/1999	120	0.5	0.35	BQL2	NA	NA	0.50	NA
	5/18/1999	64	0.53	BQL1	BQL2	NA	NA	1.5	NA
	8/14/1999	BQL1	0.42	BQL1	1.2	NA	BQL3	0.69	NA
	12/8/1999	81	0.35	BQL1	0.7	NA	0.48	BQL3	NA
	2/29/2000	25	BQL1	BQL1	BQL2	NA	1.9	BQL3	NA
	6/13/2000	84	0.57	0.32	BQL2	NA	0.28	BQL3	0.96
	8/29/2000	2.1	BQL1	BQL1	BQL2	NA	0.25	1.9	0.76
	11/13/2000	4.9	BQL1	BQL1	BQL2	260	0.55	BQL3	1.35
	2/21/2001	118	<3.0	<0.4	<1.6	790	1.06	<0.6	2.12
	5/31/2001	BQL1	BQL1	BQL1	BQL2	BQL3	0.21	0.78	
	9/11/2001	BQL1	BQL1	BQL1	BQL2	ND	0.67	1.4	0.05
	11/16/2001	0.34	0.37	BQL1	1.6	NA	0.88	NA	1.59
	3/22/2002	3.92	0.9	BQL1	2.13	NA	2.82	0.6	1.10
	5/24/2002	0.82	<0.3	0.4	0.8	600	0.84	NA	0.80
	8/28/2002	0.59	BQL1	BQL1	BQL2	700	BQL3	NA	0.11
	11/21/2002	0.46	0.37	BQL1	BQL2	NA	0.7	NA	1.13
	11/21/2002	0.46	0.37	BQL1	BQL2	NA	0.7	NA	1.13
MW-4	9/11/2001	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	8.9	0.04
	11/16/2001	NA	NA	NA	NA	NA	NA	NA	1.34
	3/22/2002	NA	NA	NA	NA	NA	NA	NA	2.56
	5/23/2002	96	4	14	31	BQL5	1.9	5.0	0.8
	8/28/2002	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	BQL4	0.19
MW-5R	11/19/2002	BQL1	BQL1	BQL1	BQL2	NA	NA	7.9	0.29
	11/19/2002	BQL1	BQL1	BQL1	BQL2	NA	0.11	BQL4	2.1
	2/18/2003	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL4	1.31
MW-6R	5/20/2003	BQL1	BQL1	BQL1	0.87	BQL4	BQL3	BQL4	1.0
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	0.84	BQL4	2.75
MW-7	11/13/2000	BQL1	BQL1	BQL1	BQL2	BQL4	0.55	BQL3	NA
	2/21/2001	<0.8	<3.0	<0.4	<1.6	<0.4	<0.10	<0.6	4.84
	5/31/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	<0.5	
	11/16/2001	NA	NA	NA	NA	NA	NA	NA	NA
	3/22/2002	0.73	0.31	0.6	2.55	NA	0.07	BQL3	1.20
	8/28/2002	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	NA	0.07
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	0.13

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TVPH (mg/L)	TEPH (mg/L)	DO (mg/L)
	OIS Limit	5.0	1000	680	10,000	NS	NS	NS	NS
MW-8	3/22/2002	NA	NA	NA	NA	NA	NA	NA	1.05
	5/23/2002	1.2	8.7	4.6	10.6	BQL5	2.0	BQL4	0.14
	8/28/2002	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	NA	0.13
	11/19/2002	BQL1	BQL1	BQL1	BQL2	NA	NA	BQL4	3.37
MW-9	11/19/1998	BQL1	BQL1	BQL1	BQL2	NA	NA	BQL3	NA
	2/16/1999	BQL1	BQL1	BQL1	BQL2	NA	NA	BQL3	NA
	5/18/1999	BQL1	BQL1	BQL1	BQL2	NA	NA	BQL3	NA
	8/14/1999	BQL1	0.41	BQL1	1.5	NA	BQL3	BQL3	NA
	12/8/1999	BQL1	0.58	BQL1	BQL2	NA	BQL3	BQL3	NA
	2/29/2000	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL3	NA
	6/13/2000	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL3	2.85
	8/29/2000	BQL1	BQL1	BQL1	BQL2	NA	0.25	1.9	1.84
	11/13/2000	BQL1	BQL1	BQL1	BQL2	3.1	BQL3	BQL3	2.29
	2/21/2001	<0.8	<3.0	<0.4	<1.6	6.5	<0.10	<0.6	3.67
	5/31/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	<0.5	NA
	9/11/2001	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	NA	0.03
	11/16/2001	BQL1	BQL1	BQL1	0.9	NA	BQL3	NA	2.01
	3/22/2002	BQL1	BQL1	BQL1	2.28	NA	0.08	BQL3	2.08
	5/24/2002	BQL1	BQL1	BQL1	BQL2	16	BQL3	NA	1.23
	8/28/2002	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	NA	3.19
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	2.28
MW-10	11/19/1998	51	4.80	20	37	NA	NA	NA	NA
	2/16/1999	BQL1	BQL1	BQL1	BQL2	NA	NA	BQL3	NA
	5/18/1999	43	0.32	BQL1	0.76	NA	NA	BQL3	NA
	Abandoned								
MW-10R	6/13/2000	4500	3300	730	3100	NA	57	5.6	5.67
	8/29/2000	5200	570	590	2500	NA	31	130	0.28
	11/13/2000	8200	BQL	830	2800	2,600	34.3	BQL3	0.19
	2/21/2001	5400	260	760	2700	3,000	20.3	410	1.21
	5/31/2001	NA	NA	NA	NA	NA	NA	NA	NA
	9/11/2001	7300	45	1100	554	3,800	31	29	0.07
	11/16/2001	240	280	130	770	NA	27	NA	0.50
	3/22/2002	8866	1930	6296	18854	NA	893	92	1.61
	5/23/2002	NA	NA	NA	NA	NA	NA	NA	NA
	8/28/2002	NA	NA	NA	NA	NA	NA	NA	NA
	11/20/2002	FP	FP	FP	FP	FP	FP	FP	FP
	2/18/2003	FP	FP	FP	FP	FP	FP	FP	FP
	5/20/2003	FP	FP	FP	FP	FP	FP	FP	FP
MW-11	11/19/1998	NA	NA	NA	NA	NA	NA	NA	NA
	2/16/1999	370	5.2	11	75	NA	NA	BQL3	NA
	5/18/1999	BQL1	BQL1	BQL1	0.62	NA	NA	2.1	NA
MW-12	11/19/1998	2660	130	290	2250	NA	NA	9.1	NA
	2/16/1999	3960	92	430	1580	NA	NA	BQL3	NA
	5/18/1999	7400	110	BQL1	1700	NA	NA	BQL3	NA
	Abandoned								

Abandoned

Well ID	Date	Appendix B Historic Analytical Results							
		Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TPPH (mg/L)	TEPH (mg/L)	DO (mg/L)
	OIS Limit	5.0	1000	680	10,000	NS	NS	NS	NS
MW-12R	6/13/2000	BQL1	0.32	BQL1	1.1	NA	0.08	BQL3	5.39
	8/29/2000	BQL1	BQL1	4.0	2.2	NA	BQL3	BQL3	2.30
	11/13/2000	BQL1	BQL1	BQL1	BQL2	BQL4	BQL3	BQL3	0.84
	2/21/2001	<0.8	<3.0	<0.4	<1.6	<0.4	<0.10	<1.2	1.81
	5/31/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	<0.5	
	9/11/2001	ND	ND	ND	ND	ND	ND	ND	0.05
	11/16/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	0.94
	3/22/2002	BQL1	BQL1	BQL1	1.6	NA	BQL3	BQL3	1.18
	5/24/2002	BQL1	BQL1	BQL1	BQL2	BQL4	BQL3	NA	0.76
	8/28/2002	BQL1	BQL1	BQL1	BQL2	BQL4	BQL3	NA	1.47
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	0.13	NA	1.51
	2/18/2003	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	0.85
	5/20/2003	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	0.60
MW-13	6/13/2000	BQL1	BQL1	BQL1	0.75	NA	0.14	BQL3	5.68
	8/29/2000	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL3	1.36
	11/13/2000	BQL1	BQL1	BQL1	BQL2	64.1	BQL3	BQL3	1.18
	2/21/2001	<0.8	<3.0	<0.4	<1.6	120	<0.10	<1.2	3.12
	5/31/2001	BQL1	BQL1	BQL1	BQL2	NA	0.12	<0.5	
	9/11/2001	ND	ND	ND	ND	ND	ND	ND	0.08
	11/16/2001	BQL1	0.41	BQL1	0.90	NA	BQL3	NA	1.22
	3/22/2002	0.91	1.8	5.4	16.53	NA	0.45	BQL3	1.3
	5/24/2002	0.34	BQL1	BQL1	BQL2	120	BQL3	NA	1.24
	8/28/2002	BQL1	BQL1	BQL1	BQL2	22	BQL3	NA	0.81
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	0.19	NA	2.04
MW-14	6/13/2000	0.87	1.2	0.56	2.4	NA	0.09	BQL3	6.10
	8/29/2000	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL3	1.97
	11/13/2000	BQL1	BQL1	BQL1	BQL2	BQL4	BQL3	BQL3	1.60
	2/21/2001	<0.8	<3.0	<0.4	<1.6	<0.4	<0.10	<1.2	3.03
	5/31/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	<0.5	
	9/11/2001	ND	ND	ND	ND	ND	ND	ND	0.04
	11/16/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	2.21
	3/22/2002	BQL1	BQL1	BQL1	2.62	NA	0.06	BQL3	1.30
	5/24/2002	BQL1	BQL1	BQL1	BQL2	BQL4	BQL3	NA	0.37
	8/28/2002	BQL1	BQL1	BQL1	BQL2	BQL4	BQL3	NA	1.62
MW-15	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	1.47
	6/13/2000	BQL1	0.37	0.36	2.9	NA	0.16	BQL3	5.94
	8/29/2000	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL3	1.50
	11/13/2000	BQL1	BQL1	0.4	BQL2	BQL4	BQL3	BQL3	1.34
	2/21/2001	<0.4	<3.0	<0.4	<1.6	<0.4	<0.10	<1.2	2.67
	5/31/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	SB	
	9/11/2001	BQL1	BQL1	BQL1	BQL2	BQL4	BQL3	BQL3	0.05
	11/16/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	1.44
	3/22/2002	0.41	0.89	BQL1	1.95	NA	BQL3	BQL3	1.35
	5/23/2002	0.37	3	19	43	BQL5	2.2	NA	0.13
	8/29/2002	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	NA	2.41
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	1.91

Well ID	Date	Appendix B Historic Analytical Results							
		Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TVPH (mg/L)	TEPH (mg/L)	DO (mg/L)
	OIS Limit	5.0	1000	680	10,000	NS	NS	NS	NS
MW-16	6/13/2000	BQL1	0.31	BQL1	1.6	NA	0.24	BQL3	6.48
	8/29/2000	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL3	1.64
	11/13/2000	BQL1	BQL1	BQL1	BQL2	1.3	BQL3	BQL3	1.12
	2/21/2001	<0.8	<3.0	<0.4	<1.6	2	<0.10	<1.2	6.69
	5/31/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	<0.5	
	9/11/2001	ND	ND	ND	ND	ND	ND	ND	0.05
	11/16/2001	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	1.40
	3/22/2002	0.62	1.32	BQL1	2.11	NA	0.07	BQL3	1.30
	5/23/2002	BQL1	1.2	7.7	21	BQL5	1.1	NA	0.23
	8/29/2002	BQL1	BQL1	BQL1	BQL2	BQL5	BQL3	NA	1.16
	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	1.8
	2/18/2003	BQL1	BQL1	BQL1	BQL2	NA	BQL3	NA	2.27
	5/20/2003	BQL1	BQL1	BQL1	1.56	NA	BQL3	NA	0.42
MW-17	11/16/2001	8.0	0.78	0.75	0.83	NA	0.08	NA	1.33
	3/22/2002	BQL1	BQL1	BQL1	2.12	NA	1.49	3.0	1.66
	5/23/2002	6.1	0.74	6.1	12	34	2.1	NA	0.18
	8/28/2002	BQL1	BQL1	BQL1	BQL2	28	0.19	NA	0.07
	11/19/2002	16.3	BQL1	BQL1	BQL2	NA	NA	NA	NA
MW-18	3/22/2002	1.54	2.15	0.4	3.4	NA	3.53	BQL3	2.20
	5/23/2002	0.71	0.85	3.0	7	337	3.9	NA	0.15
	8/29/2002	0.94	0.65	BQL1	31.58	3,400	2.64	NA	1.04
	11/21/2002	0.41	BQL1	BQL1	BQL2	NA	0.24	NA	0.97
	2/18/2003	BQL1	BQL1	BQL1	BQL2	NA	0.77	NA	1.68
	5/20/2003	BQL1	BQL1	BQL1	BQL2	480	0.46	NA	0.53
MW-19	3/22/2002	388.22	27.57	8.1	55.52	NA	3.64	3.0	1.15
	5/23/2002	200	10	77	106	100	54	NA	0.06
	8/28/2002	160	3.5	2.2	7.7	100.0	3.3	NA	0.18
	11/20/2002	135	BQL1	0.44	3.32	NA	1.3	NA	0.55
MW-20	3/22/2002	4748	5710	348	3586	NA	68.51	26	2.54
	5/24/2002	16000	9000	580	5800	33,000	80	NA	0.46
	8/28/2002	FP	FP	FP	FP	FP	FP	FP	FP
	11/21/2002	FP	FP	FP	FP	FP	FP	FP	FP
	2/18/2003	FP	FP	FP	FP	FP	FP	FP	FP
MW-21	5/20/2003	2600	260	350	4980	1200	120	NA	0.03
	3/22/2002	2.46	4.69	0.7	7.09	NA	0.59	0.8	2.22
	5/24/2002	37	6.2	48	43	9	BQL3	NA	0.52
	8/28/2002	1	0.5	BQL1	BQL2	BQL5	0.1	NA	0.48
	11/21/2002	1.9	0.32	BQL1	0.67	NA	2.17	NA	NA
MW-22	8/28/2002	0.33	BQL1	0.5	BQL2	BQL5	0.06	2.7	0.96
	11/19/2002	BQL1	BQL1	BQL1	BQL2	NA	NA	BQL4	1.46
	2/18/2003	BQL1	BQL1	BQL1	BQL2	NA	0.09	BQL4	1.39
	5/20/2003	BQL1	BQL1	BQL1	1.27	NA	BQL3	BQL4	0.53
MW-23	8/28/2002	FP	FP	FP	FP	FP	FP	FP	FP
	11/19/2002	BQL1	BQL1	BQL1	BQL2	NA	NA	BQL4	0.69
	2/18/2003	MC	MC	MC	MC	MC	MC	MC	MC
	5/20/2003	2.0	BQL1	1.0	13.9	BQL5	0.23	16	0.63
MW-24	8/28/2002	BQL1	BQL1	BQL1	1.84	72	0.1	NA	1.12
	11/19/2002	FP	FP	FP	FP	FP	FP	FP	FP
	2/18/2003	MC	MC	MC	MC	MC	MC	MC	MC
	5/20/2003	FP	FP	FP	FP	FP	FP	FP	FP
MW-25	8/28/2002	BQL1	BQL1	BQL1	3.73	BQL5	BQL3	BQL4	1.48
	11/19/2002	BQL1	BQL1	BQL1	0.63	NA	NA	3.6	1.47
	2/18/2003	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL4	1.45
	5/20/2003	0.62	BQL1	0.5	7.4	NA	0.10	BQL4	1.34

Appendix B Historic Analytical Results									
Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TVPH (mg/L)	TEPH (mg/L)	DO (mg/L)
	OIS Limit	5.0	1000	680	10,000	NS	NS	NS	NS
MW-26	11/21/2002	BQL1	BQL1	BQL1	0.76	NA	4.2	3.7	2.08
	2/18/2003	2.55	BQL1	BQL1	0.8	NA	0.55	1.3	1.89
	5/20/2003	2.9	BQL1	8.6	6.5	139	1.23	2.4	0.85
MW-27	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	0.39	0.6	2.40
	2/18/2003	1.42	BQL1	0.4	BQL2	NA	0.18	BQL4	1.26
	5/20/2003	BQL1	BQL1	BQL1	2.45	28	BQL3	2.0	1.0
MW-28	11/21/2002	BQL1	BQL1	BQL1	BQL2	NA	0.14	BQL4	NA
	2/18/2003	BQL1	BQL1	BQL1	BQL2	NA	BQL3	BQL4	0.97
	5/20/2003	BQL1	BQL1	BQL1	1.78	NA	BQL3	BQL4	0.25
POND	5/23/2002	4.4	BQL1	0.4	1	BQL5	0.1	BQL4	NA

BQL1 = <0.3 ug/L

BQL2 = <0.6 ug/L

BQL3 = <0.05 mg/L

BQL4 = <0.5 mg/l

BQL5 = <5.0 ug/L

NS = No standard

NA = Not analyzed

SB = Sample broken.

FP = Free-Product, no sample taken

MC = Monument covered by standing water



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NOV 17 2003

OIL CONSERVATION
DIVISION

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

November 13, 2003

Third Quarter 2003

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

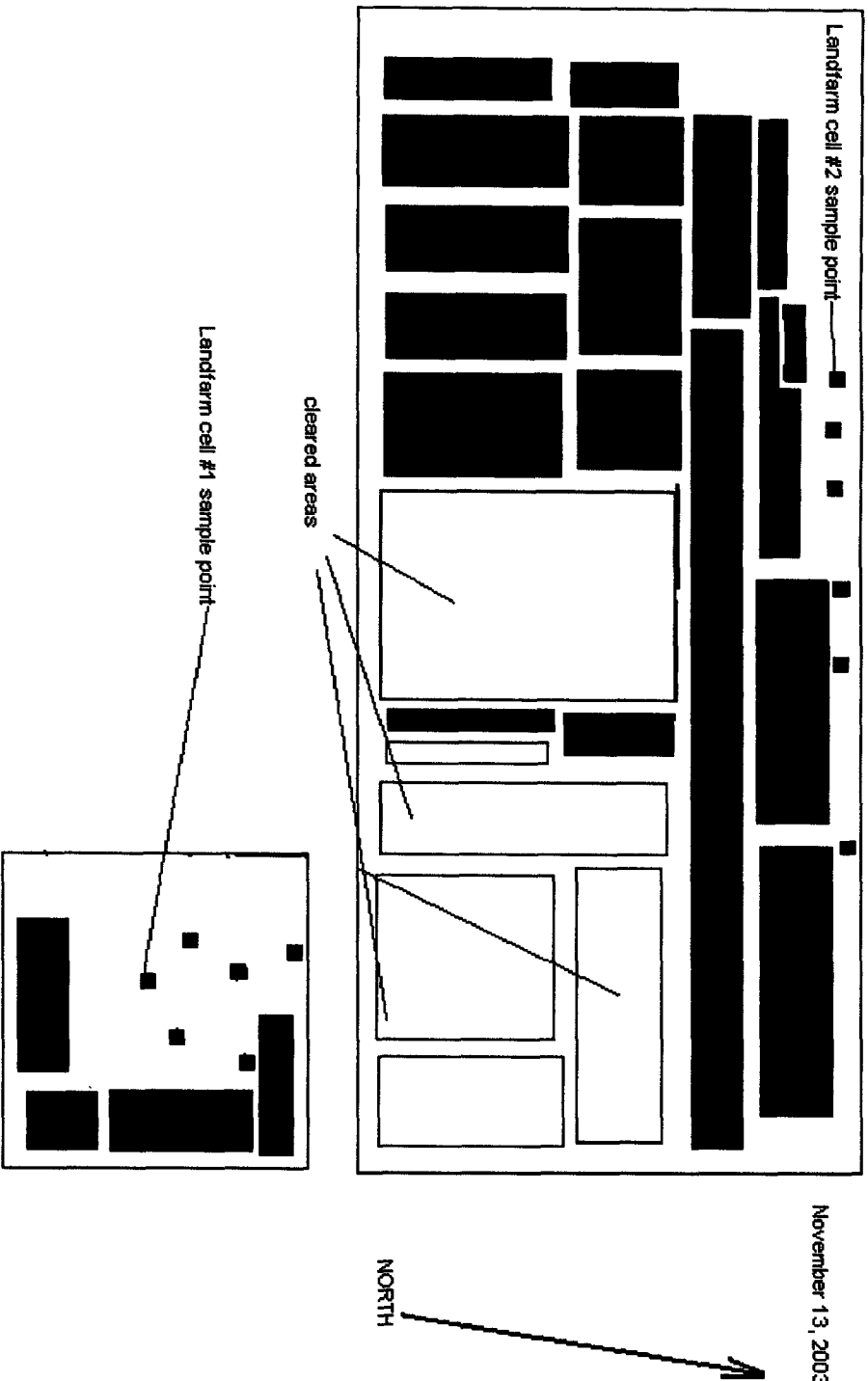
Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Putman KEY
Mr. Foust NMOCD



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 28 2003

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

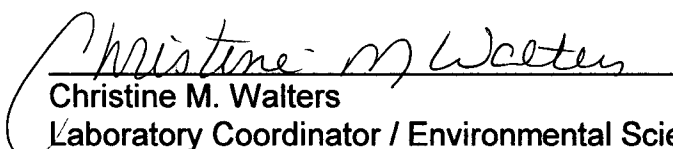
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 10/27/03, and received by the Envirotech laboratory on 10/28/03 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 11505. The samples were assigned Laboratory Nos. 26989 (Cell #1) and 26990 (Cell #2) for tracking purposes.

The samples were analyzed on 10/28/03 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

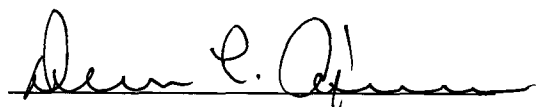
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	10-28-03
Laboratory Number:	26989	Date Sampled:	10-27-03
Chain of Custody No:	11505	Date Received:	10-28-03
Sample Matrix:	Soil	Date Extracted:	10-28-03
Preservative:	Cool	Date Analyzed:	10-28-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

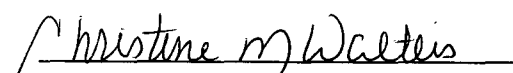
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Landfarm.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	10-28-03
Laboratory Number:	26990	Date Sampled:	10-27-03
Chain of Custody No:	11505	Date Received:	10-28-03
Sample Matrix:	Soil	Date Extracted:	10-28-03
Preservative:	Cool	Date Analyzed:	10-28-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

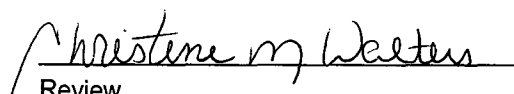
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Landfarm.


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-28-TPH QA/QC	Date Reported:	10-28-03
Laboratory Number:	26987	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	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

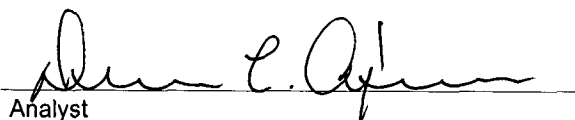
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	157	156	0.4%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

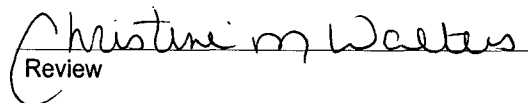
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	157	250	406	99.8%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 26987 - 26990.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	10-28-03
Laboratory Number:	26989	Date Sampled:	10-27-03
Chain of Custody:	11505	Date Received:	10-28-03
Sample Matrix:	Soil	Date Analyzed:	10-28-03
Preservative:	Cool	Date Extracted:	10-28-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

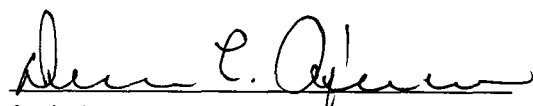
ND - Parameter not detected at the stated detection limit.

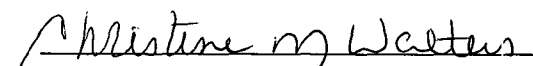
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

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: Landfarm.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	10-28-03
Laboratory Number:	26990	Date Sampled:	10-27-03
Chain of Custody:	11505	Date Received:	10-28-03
Sample Matrix:	Soil	Date Analyzed:	10-28-03
Preservative:	Cool	Date Extracted:	10-28-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

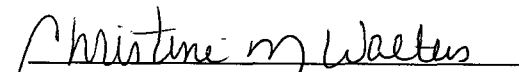
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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: Landfarm.


Analyst


Review

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-28-BTEX QA/QC	Date Reported:	10-28-03
Laboratory Number:	26987	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-03
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

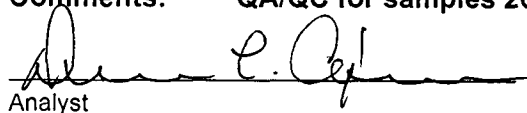
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	110	108	2.0%	0 - 30%	1.7
Ethylbenzene	396	388	2.0%	0 - 30%	1.5
p,m-Xylene	1,280	1,260	1.6%	0 - 30%	2.2
o-Xylene	768	759	1.1%	0 - 30%	1.0

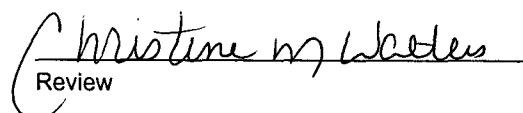
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	110	50.0	159	99.3%	46 - 148
Ethylbenzene	396	50.0	445	99.8%	32 - 160
p,m-Xylene	1,280	100	1,370	99.3%	46 - 148
o-Xylene	768	50.0	816	99.8%	46 - 148

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 26987 - 26990.


Analyst


Review

1505

PD # 71911



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Environmental Bureau
Oil Conservation Division

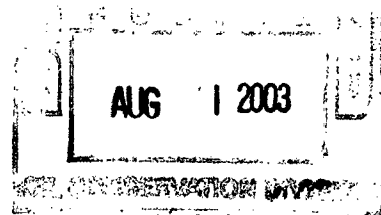
Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

July 29, 2003

Second Quarter 2003



Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

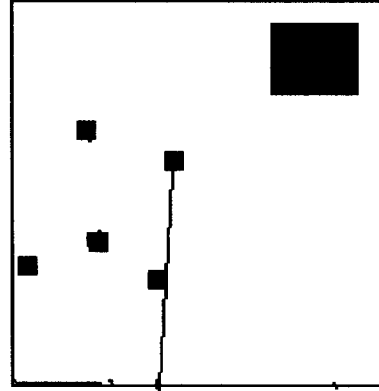
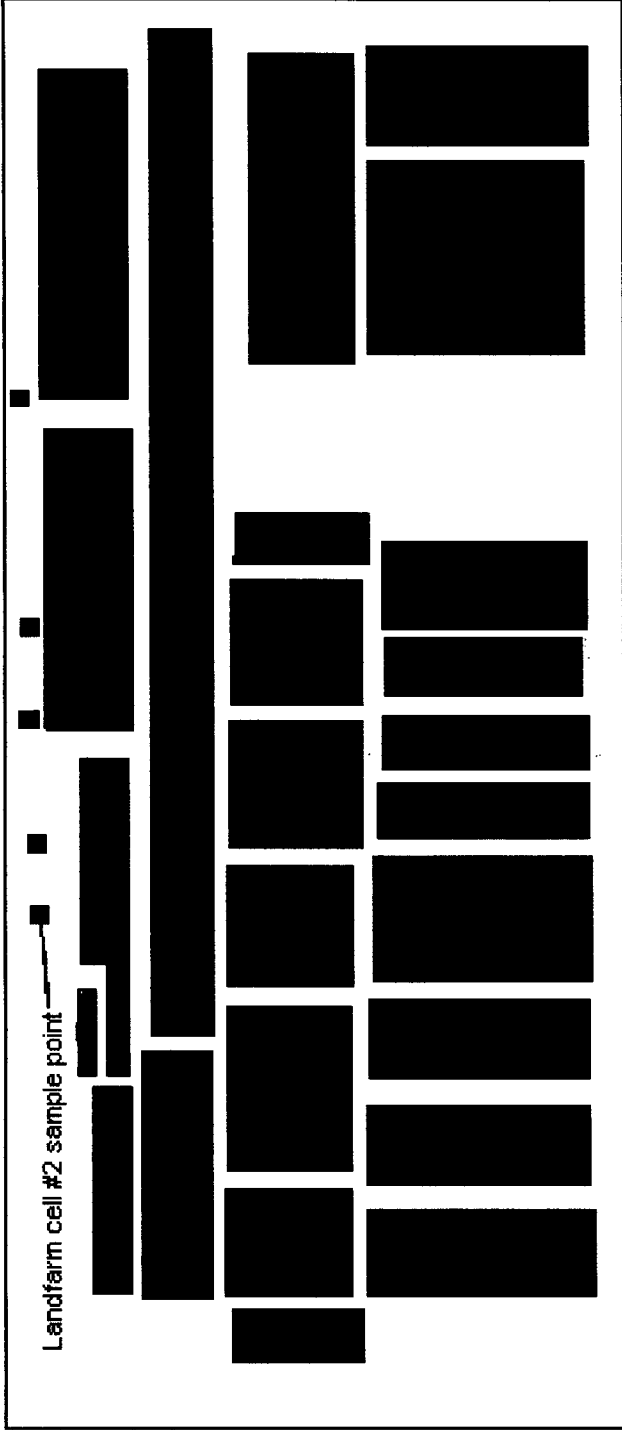
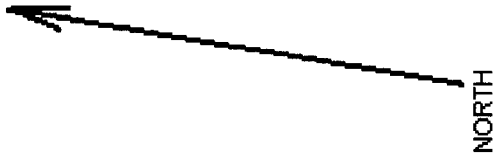
If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Lewis KEY
Mr. Foust NMOCD

JULY 29, 2003



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 23 2003

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

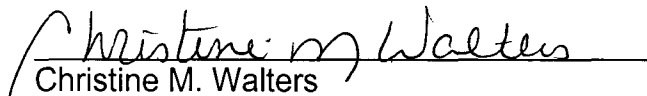
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 7/21/03, and received by the Envirotech laboratory on 7/22/03 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 11165. The samples were assigned Laboratory Nos. 26133 (Cell #1) and 26134 (Cell #2) for tracking purposes.

The samples were analyzed on 7/22/03 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

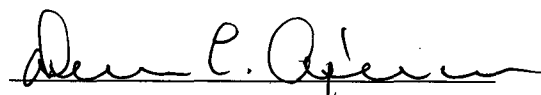
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Sample ID:	Cell #1	Date Reported:	07-22-03
Laboratory Number:	26133	Date Sampled:	07-21-03
Chain of Custody No:	11165	Date Received:	07-22-03
Sample Matrix:	Soil	Date Extracted:	07-22-03
Preservative:	Cool	Date Analyzed:	07-22-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

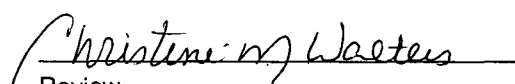
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

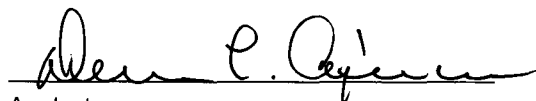
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-22-03
Laboratory Number:	26134	Date Sampled:	07-21-03
Chain of Custody No:	11165	Date Received:	07-22-03
Sample Matrix:	Soil	Date Extracted:	07-22-03
Preservative:	Cool	Date Analyzed:	07-22-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

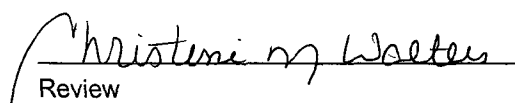
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-22-TPH QA/QC	Date Reported:	07-22-03
Laboratory Number:	26127	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-22-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	2.6312E-002	2.6286E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	2.5849E-002	2.5823E-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

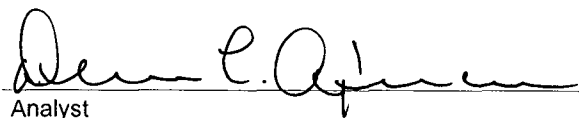
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

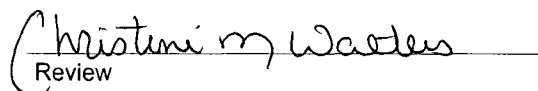
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 26127, 26129 - 26134.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-22-03
Laboratory Number:	26133	Date Sampled:	07-21-03
Chain of Custody:	11165	Date Received:	07-22-03
Sample Matrix:	Soil	Date Analyzed:	07-22-03
Preservative:	Cool	Date Extracted:	07-22-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

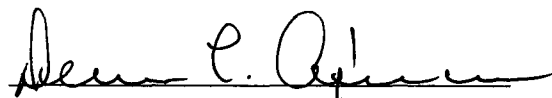
ND - Parameter not detected at the stated detection limit.

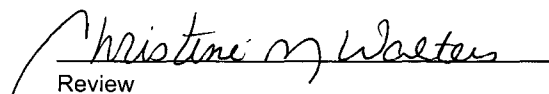
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Landfarm.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-22-03
Laboratory Number:	26134	Date Sampled:	07-21-03
Chain of Custody:	11165	Date Received:	07-22-03
Sample Matrix:	Soil	Date Analyzed:	07-22-03
Preservative:	Cool	Date Extracted:	07-22-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

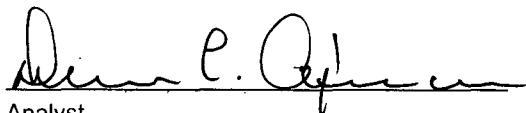
ND - Parameter not detected at the stated detection limit.

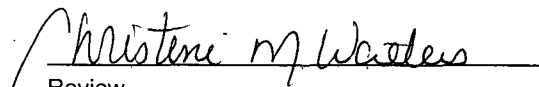
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

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: Landfarm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	07-22-BTEX QA/QC	Date Reported:	07-22-03
Laboratory Number:	26127	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-22-03
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	3.7241E-002	3.7353E-002	0.3%	ND	0.2
Toluene	4.4375E-002	4.4464E-002	0.2%	ND	0.2
Ethylbenzene	7.5434E-002	7.5661E-002	0.3%	ND	0.2
p,m-Xylene	6.7602E-002	6.7806E-002	0.3%	ND	0.2
o-Xylene	5.7973E-002	5.8089E-002	0.2%	ND	0.1

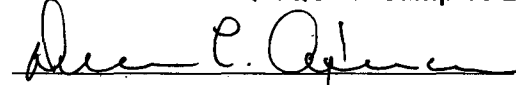
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	26.5	26.0	1.9%	0 - 30%	1.7
Ethylbenzene	16.2	15.9	1.9%	0 - 30%	1.5
p,m-Xylene	40.8	41.7	2.2%	0 - 30%	2.2
o-Xylene	10.8	11.0	1.9%	0 - 30%	1.0

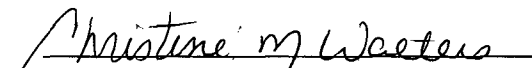
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	26.5	50.0	76.3	99.7%	46 - 148
Ethylbenzene	16.2	50.0	66.1	99.8%	32 - 160
p,m-Xylene	40.8	100	140	99.2%	46 - 148
o-Xylene	10.8	50.0	60.7	99.8%	46 - 148

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 26127, 26132 - 26134.


Analyst


Review

11165

ENVIROTECH INC.

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



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MAY 12 2003
Environmental Bureau
Oil Conservation Division

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

May 7, 2003

First Quarter 2003

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

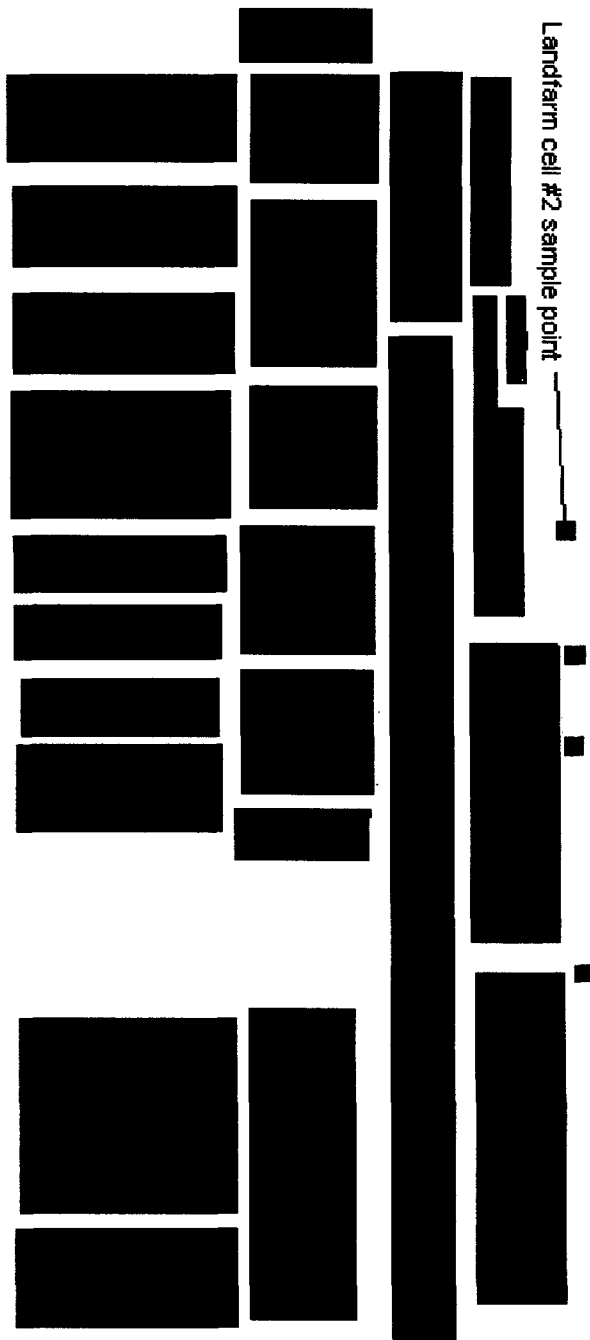
Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Lewis KEY
Mr. Foust NMOCD

my
5-20-03

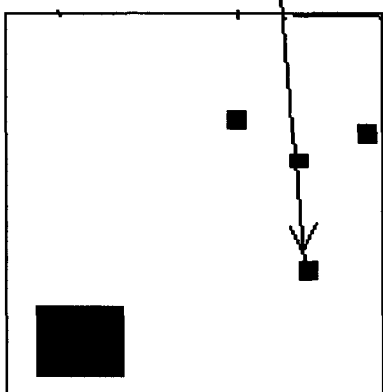
Landfarm cell #2 sample point



MAY 7, 2003

NORTH

Landfarm cell #1 sample point



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 29, 2003

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

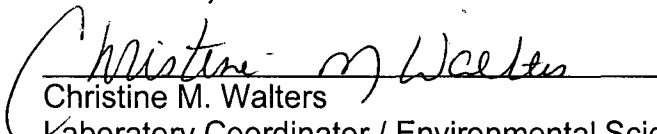
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 4/25/03, and received by the Envirotech laboratory on 4/25/03 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The samples were documented on Envirotech Chain of Custody No. 10851. The samples were assigned Laboratory Nos. 25470 (Cell #1) and 25471 (Cell #2) for tracking purposes.

The samples were analyzed on 4/29/03 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

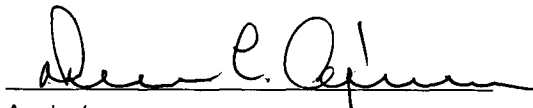
Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #1	Date Reported:	04-29-03
Laboratory Number:	25470	Date Sampled:	04-25-03
Chain of Custody No:	10851	Date Received:	04-25-03
Sample Matrix:	Soil	Date Extracted:	04-28-03
Preservative:	Cool	Date Analyzed:	04-29-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

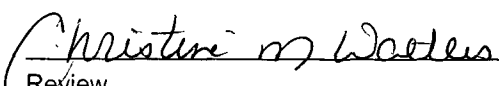
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #2	Date Reported:	04-29-03
Laboratory Number:	25471	Date Sampled:	04-25-03
Chain of Custody No:	10851	Date Received:	04-25-03
Sample Matrix:	Soil	Date Extracted:	04-28-03
Preservative:	Cool	Date Analyzed:	04-29-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

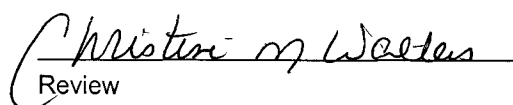
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-29-TPH QA/QC	Date Reported:	04-29-03
Laboratory Number:	25470	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-29-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	2.6312E-002	2.6286E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	2.5849E-002	2.5823E-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

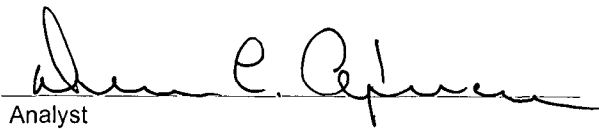
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

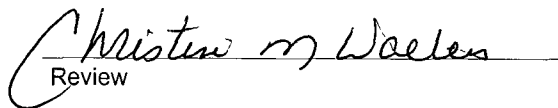
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 25470 - 25472, 25475.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #1	Date Reported:	04-29-03
Laboratory Number:	25470	Date Sampled:	04-25-03
Chain of Custody:	10851	Date Received:	04-25-03
Sample Matrix:	Soil	Date Analyzed:	04-29-03
Preservative:	Cool	Date Extracted:	04-28-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

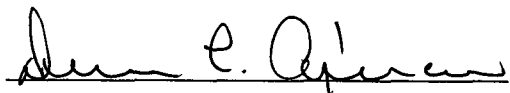
ND - Parameter not detected at the stated detection limit.

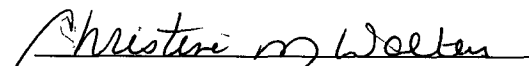
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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: Landfarm.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #2	Date Reported:	04-29-03
Laboratory Number:	25471	Date Sampled:	04-25-03
Chain of Custody:	10851	Date Received:	04-25-03
Sample Matrix:	Soil	Date Analyzed:	04-29-03
Preservative:	Cool	Date Extracted:	04-28-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

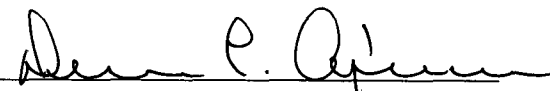
ND - Parameter not detected at the stated detection limit.

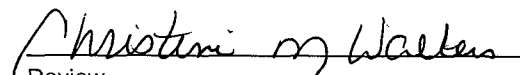
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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: Landfarm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	04-29-BTEX QA/QC	Date Reported:	04-29-03
Laboratory Number:	25470	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-29-03
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	3.7241E-002	3.7353E-002	0.3%	ND	0.2
Toluene	4.4375E-002	4.4464E-002	0.2%	ND	0.2
Ethylbenzene	7.5434E-002	7.5661E-002	0.3%	ND	0.2
p,m-Xylene	6.7602E-002	6.7806E-002	0.3%	ND	0.2
o-Xylene	5.7973E-002	5.8089E-002	0.2%	ND	0.1

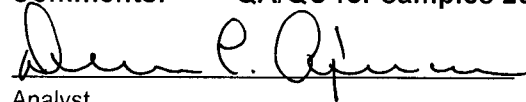
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

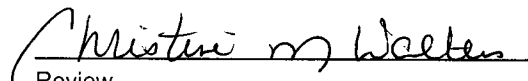
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.8	99.8%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 25470 - 25471, 25475.


Analyst


Review

10851

ENVIROTECH INC.

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



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FEB 19 2003
Environmental Bureau
Oil Conservation Division

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

February 10, 2003

Fourth Quarter 2002

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Stone
Mr. Foust

mjk
2-28-03

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 27, 2003

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

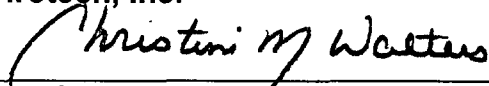
Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 1/23/03, and received by the Envirotech laboratory on 1/23/03 for BTEX 8021 and TPH 8015 analysis.

The samples were documented on Envirotech Chain of Custody No. 10574. The samples were assigned Laboratory Nos. 24631 (Cell #1) and 24632 (Cell #2) for tracking purposes.

The samples were analyzed on 1/24/03 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.



Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	01-24-03
Laboratory Number:	24631	Date Sampled:	01-23-03
Chain of Custody:	10574	Date Received:	01-23-03
Sample Matrix:	Soil	Date Analyzed:	01-24-03
Preservative:	Cool	Date Extracted:	01-24-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

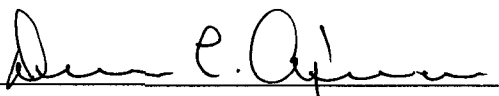
ND - Parameter not detected at the stated detection limit.

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: Landfarm Cell #1.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	01-24-03
Laboratory Number:	24632	Date Sampled:	01-23-03
Chain of Custody:	10574	Date Received:	01-23-03
Sample Matrix:	Soil	Date Analyzed:	01-24-03
Preservative:	Cool	Date Extracted:	01-24-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

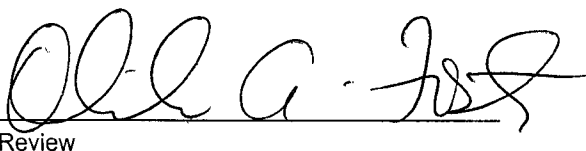
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Landfarm Cell #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:	01-24-BTEX QA/QC	Date Reported:	01-24-03
Laboratory Number:	24631	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-24-03
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	2.6914E-002	2.6995E-002	0.3%	ND	0.2
Toluene	3.3709E-002	3.3777E-002	0.2%	ND	0.2
Ethylbenzene	5.8262E-002	5.8438E-002	0.3%	ND	0.2
p,m-Xylene	7.1891E-002	7.2107E-002	0.3%	ND	0.2
o-Xylene	5.4522E-002	5.4631E-002	0.2%	ND	0.1

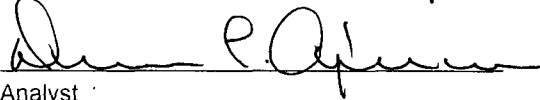
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

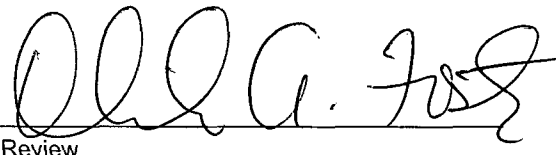
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.7	99.7%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 24631 - 24632.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

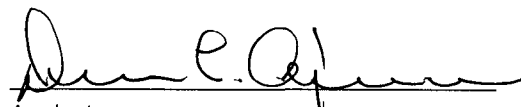
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	01-24-03
Laboratory Number:	24631	Date Sampled:	01-23-03
Chain of Custody No:	10574	Date Received:	01-23-03
Sample Matrix:	Soil	Date Extracted:	01-24-03
Preservative:	Cool	Date Analyzed:	01-24-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

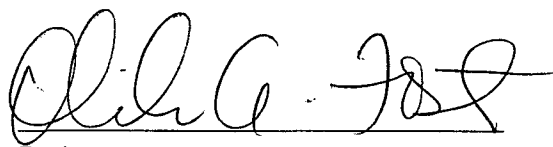
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm Cell #1.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

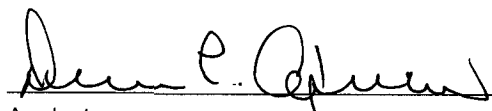
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	01-24-03
Laboratory Number:	24632	Date Sampled:	01-23-03
Chain of Custody No:	10574	Date Received:	01-23-03
Sample Matrix:	Soil	Date Extracted:	01-24-03
Preservative:	Cool	Date Analyzed:	01-24-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

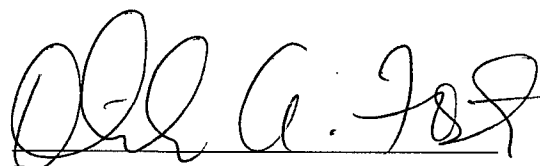
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Landfarm Cell #2.


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-24-TPH QA/QC	Date Reported:	01-24-03
Laboratory Number:	24631	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-24-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	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

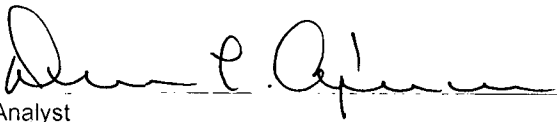
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	99.4%	75 - 125%
Diesel Range C10 - C28	ND	250	249	99.4%	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 24631 - 24632, 24637.


Analyst

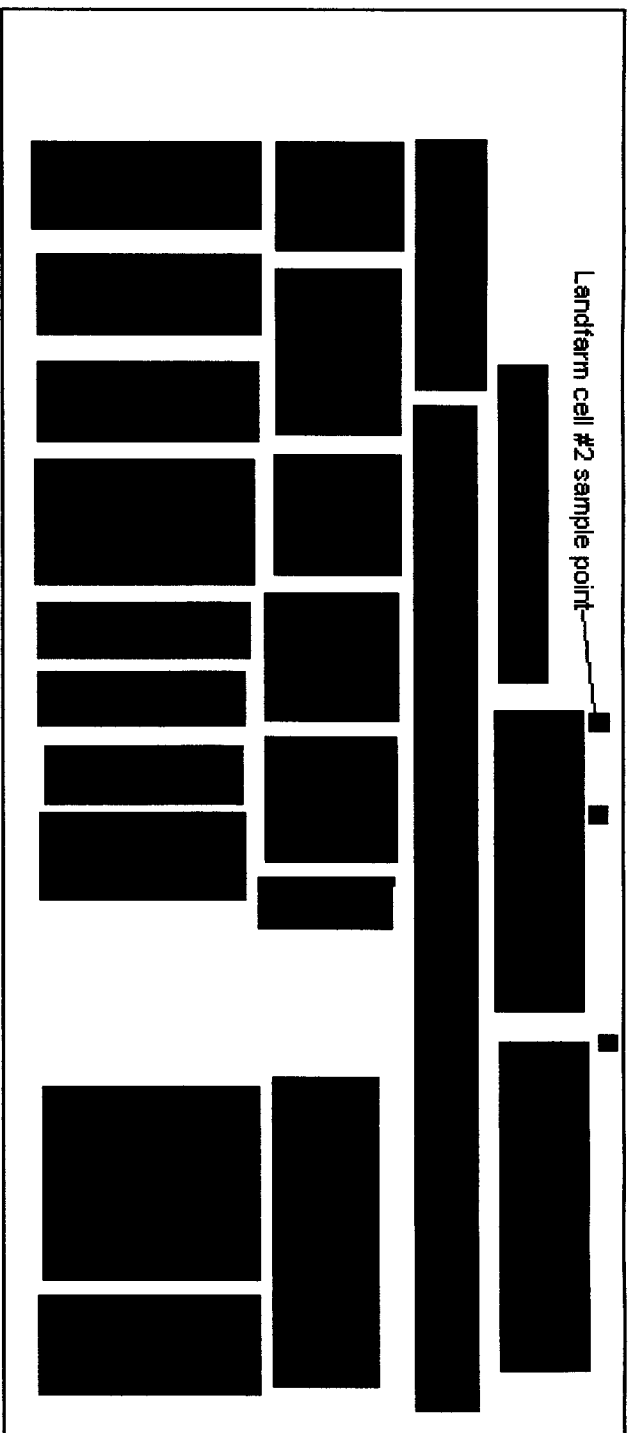

Review

10574

ENVIROTECH INC.

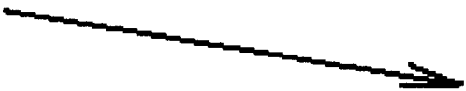
5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Landfarm cell #2 sample point

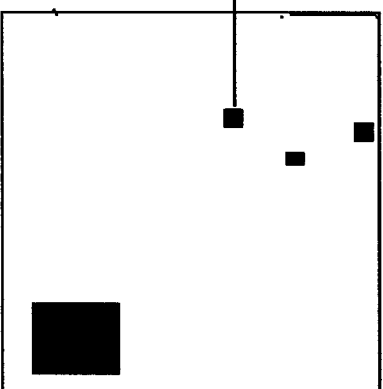


JANUARY 27, 2003

NORTH



Landfarm cell #1 sample point





RECEIVED

OCT 29 2002
Environmental Bureau
Oil Conservation Division

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

October 23, 2002

Third Quarter 2002

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

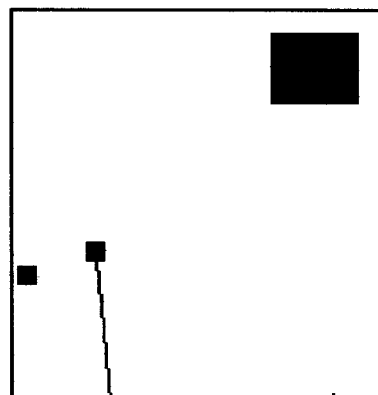
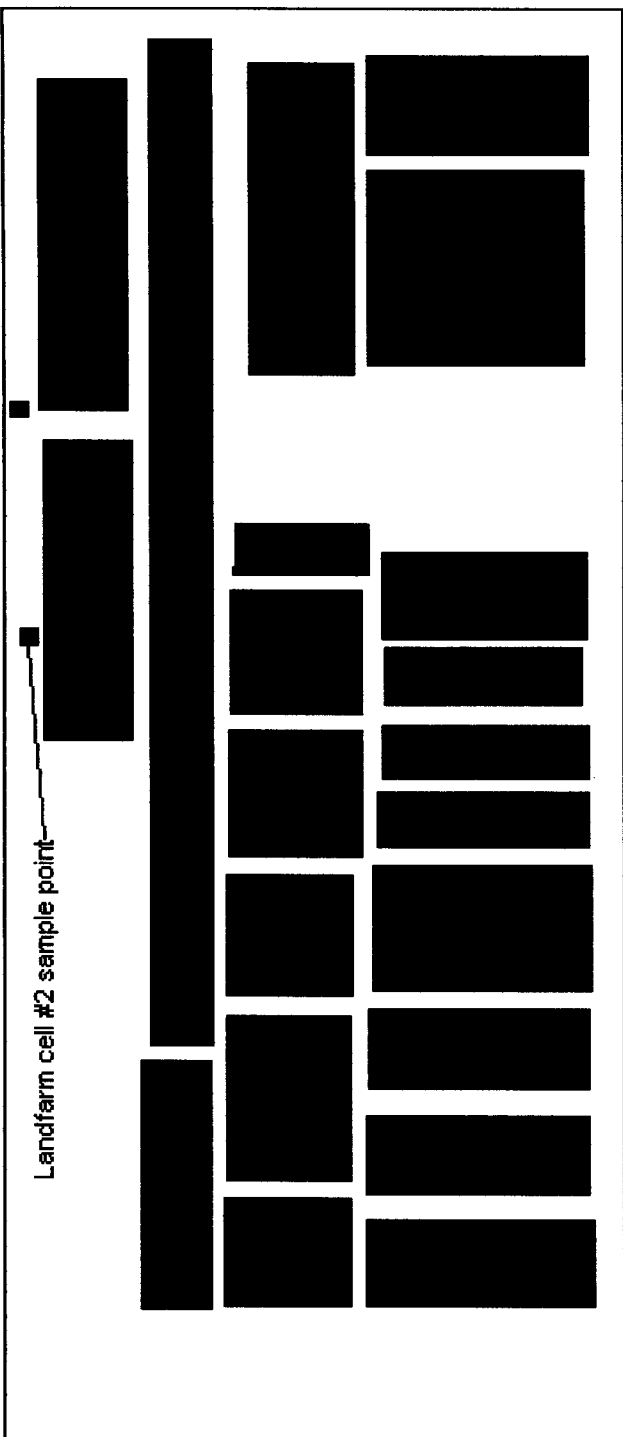
If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

Best Regards:

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Stone
Mr. Foust

October 23 2002



Landfarm cell #1 sample point

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 21, 2002

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Dear Mr. Talovich,

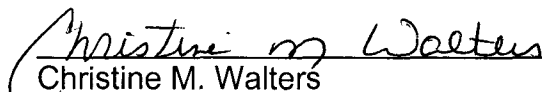
Enclosed are the analytical results for the sample collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 10/15/02, and received by the Envirotech laboratory on 10/15/02 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021 analysis.

The samples were documented on Envirotech Chain of Custody No. 10333. The samples were assigned Laboratory Nos. 24039 (Cell #1) and 24040 (Cell #2) for tracking purposes.

The samples were analyzed 10/18/02 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client: Key Energy
Sample ID: Cell #1
Laboratory Number: 24039
Chain of Custody No: 10333
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

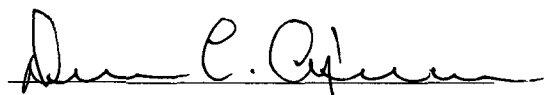
Project #: 98065-004
Date Reported: 10-18-02
Date Sampled: 10-15-02
Date Received: 10-15-02
Date Extracted: 10-16-02
Date Analyzed: 10-18-02
Analysis Requested: 8015 TPH

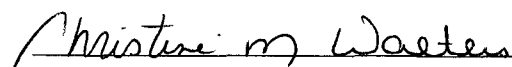
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Landfarm.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Key Energy
Sample ID: Cell #2
Laboratory Number: 24040
Chain of Custody No: 10333
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

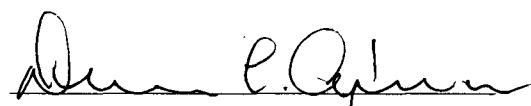
Project #: 98065-004
Date Reported: 10-18-02
Date Sampled: 10-15-02
Date Received: 10-15-02
Date Extracted: 10-16-02
Date Analyzed: 10-18-02
Analysis Requested: 8015 TPH

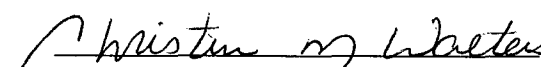
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Landfarm.


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-18-TPH QA/QC	Date Reported:	10-18-02
Laboratory Number:	24039	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-18-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	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%

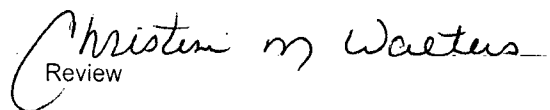
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 24039 - 24040, 24050 - 24051, 24054 - 24055.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	10-18-02
Laboratory Number:	24039	Date Sampled:	10-15-02
Chain of Custody:	10333	Date Received:	10-15-02
Sample Matrix:	Soil	Date Analyzed:	10-18-02
Preservative:	Cool	Date Extracted:	10-16-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

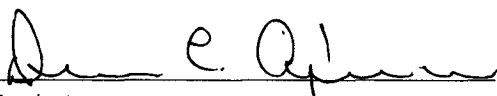
ND - Parameter not detected at the stated detection limit.

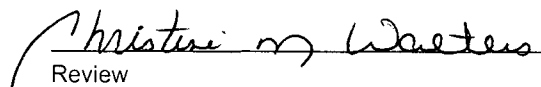
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

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: Landfarm.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	10-18-02
Laboratory Number:	24040	Date Sampled:	10-15-02
Chain of Custody:	10333	Date Received:	10-15-02
Sample Matrix:	Soil	Date Analyzed:	10-18-02
Preservative:	Cool	Date Extracted:	10-16-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

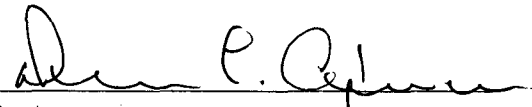
ND - Parameter not detected at the stated detection limit.

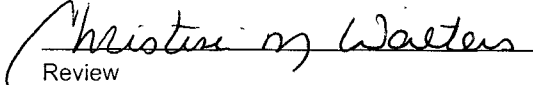
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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: Landfarm.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	10-18-BTEX QA/QC	Date Reported:	10-18-02
Laboratory Number:	24039	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-18-02
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	2.6914E-002	2.6995E-002	0.3%	ND	0.2
Toluene	3.3709E-002	3.3777E-002	0.2%	ND	0.2
Ethylbenzene	5.8262E-002	5.8438E-002	0.3%	ND	0.2
p,m-Xylene	7.1891E-002	7.2107E-002	0.3%	ND	0.2
o-Xylene	5.4522E-002	5.4631E-002	0.2%	ND	0.1

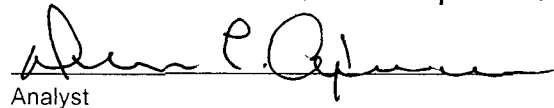
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

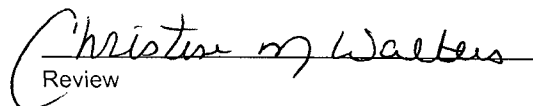
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.8	99.8%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 24039 - 24040, 24050, 24054.


Analyst


Review

10335

ENVIROTECH INC.

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



Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

July 30, 2002

Second Quarter 2002

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

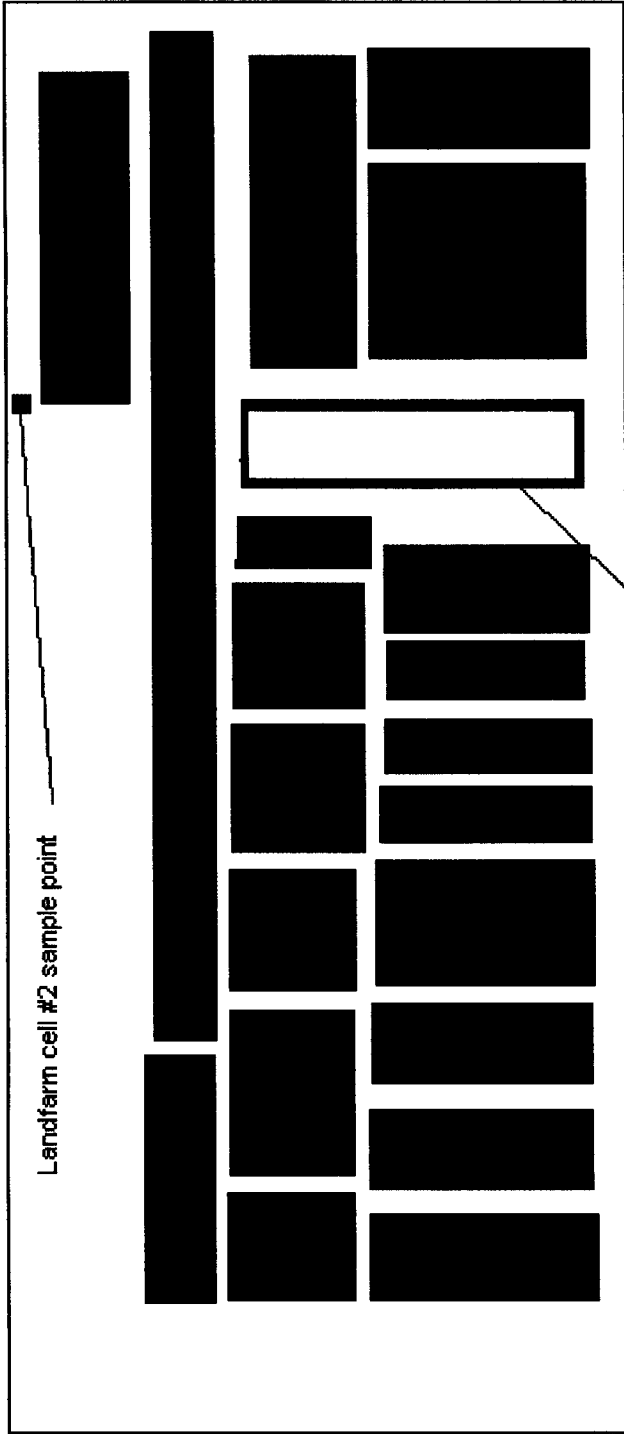
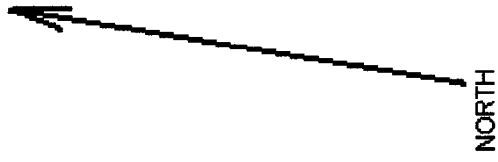
Best Regards:

A handwritten signature in cursive script, appearing to read "Michael Talovich".

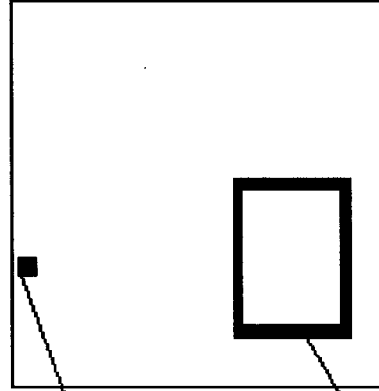
Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Stone
Mr. Foust

myh
p-14-a



Landfarm cell #2 sample point



Cell #2 soil to be cleared

Cell #1 soil to be cleared

Land farm cell #1 sample point

7-30-02

Un. 2.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 24, 2002

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-004

Job No.: 806504

Dear Mr. Talovich,

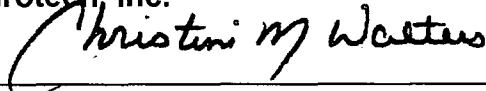
Enclosed are the analytical results for the sample collected from the location designated as "Land Farm". Two soil samples were collected by Key Energy Service designated personnel on 07/22/02, and received by the Envirotech laboratory on 7/22/02 for analysis of 8021 BTEX and 8015 TPH.

The samples were documented on Envirotech Chain of Custody No. 10118. The samples were assigned Laboratory No. 23403 (Cell #1) and Laboratory No. 23404 (Cell #2) for tracking purposes.

The samples were analyzed 7/23/02 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.



Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-23-02
Laboratory Number:	23403	Date Sampled:	07-22-02
Chain of Custody:	10118	Date Received:	07-22-02
Sample Matrix:	Soil	Date Analyzed:	07-23-02
Preservative:	Cool	Date Extracted:	07-22-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	20.0	1.7
Ethylbenzene	3.5	1.5
p,m-Xylene	70.4	2.2
o-Xylene	2.7	1.0
Total BTEX	96.6	

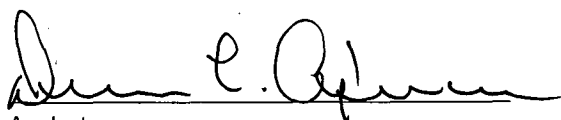
ND - Parameter not detected at the stated detection limit.

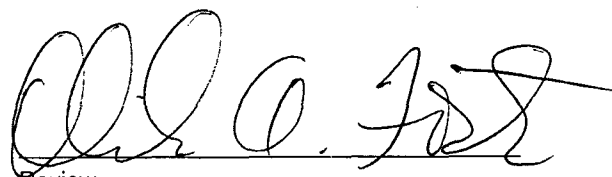
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Landfarm.


Analyst


Review

Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-23-02
Laboratory Number:	23404	Date Sampled:	07-22-02
Chain of Custody:	10118	Date Received:	07-22-02
Sample Matrix:	Soil	Date Analyzed:	07-23-02
Preservative:	Cool	Date Extracted:	07-22-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	6.4	1.7
Ethylbenzene	4.6	1.5
p,m-Xylene	73.6	2.2
o-Xylene	ND	1.0
Total BTEX	84.6	

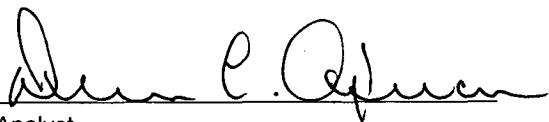
ND - Parameter not detected at the stated detection limit.

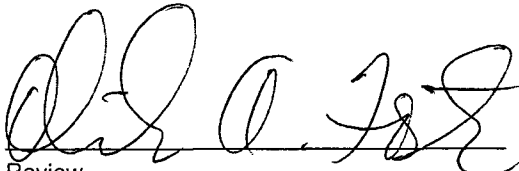
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Landfarm.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

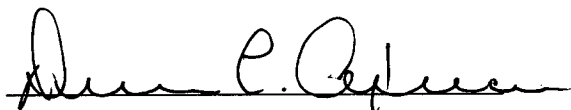
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #2	Date Reported:	07-23-02
Laboratory Number:	23404	Date Sampled:	07-22-02
Chain of Custody No:	10118	Date Received:	07-22-02
Sample Matrix:	Soil	Date Extracted:	07-22-02
Preservative:	Cool	Date Analyzed:	07-23-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

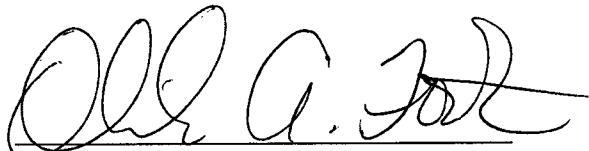
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

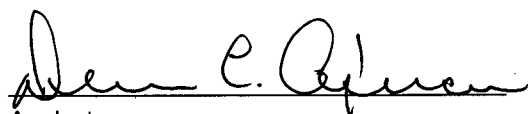
Client:	Key Energy	Project #:	98065-004
Sample ID:	Cell #1	Date Reported:	07-23-02
Laboratory Number:	23403	Date Sampled:	07-22-02
Chain of Custody No:	10118	Date Received:	07-22-02
Sample Matrix:	Soil	Date Extracted:	07-22-02
Preservative:	Cool	Date Analyzed:	07-23-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

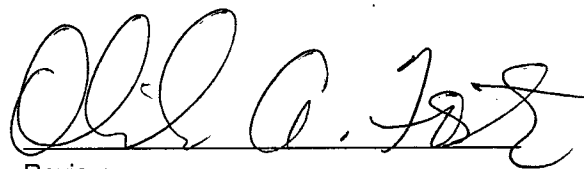
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm.**


Analyst


Review

10118

ENVIROTECH INC.

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

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-23-TPH QA/QC	Date Reported:	07-23-02
Laboratory Number:	23381	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	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

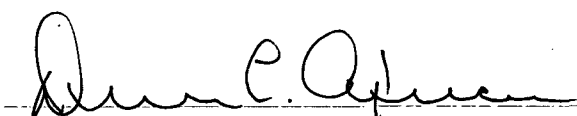
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.4	0.4	0.0%	0 - 30%
Diesel Range C10 - C28	0.7	0.7	0.0%	0 - 30%

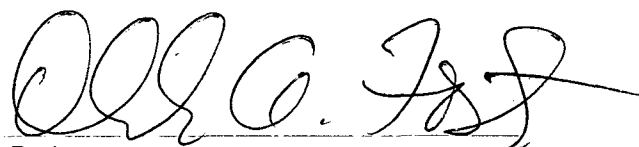
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.4	250	250	99.8%	75 - 125%
Diesel Range C10 - C28	0.7	250	250	99.8%	75 - 125%

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 23381 - 23386, 23401 - 23404.


Analyst


Review

Client:	N/A	Project #:	N/A
Sample ID:	07-23-BTEX QA/QC	Date Reported:	07-23-02
Laboratory Number:	23381	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range 0 - 15%	%Diff.	Blank Conc	Detect. Limit
Benzene	2.6914E-002	2.6995E-002	0.3%	ND	0.2
Toluene	3.3709E-002	3.3777E-002	0.2%	ND	0.2
Ethylbenzene	5.8262E-002	5.8438E-002	0.3%	ND	0.2
p,m-Xylene	7.1891E-002	7.2107E-002	0.3%	ND	0.2
o-Xylene	5.4522E-002	5.4631E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	11.0	11.0	0.0%	0 - 30%	1.8
Toluene	27.1	26.6	1.8%	0 - 30%	1.7
Ethylbenzene	35.9	35.2	1.9%	0 - 30%	1.5
p,m-Xylene	115	116	0.6%	0 - 30%	2.2
o-Xylene	10.0	10.0	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	11.0	50.0	60.9	99.8%	39 - 150
Toluene	27.1	50.0	77.0	99.9%	46 - 148
Ethylbenzene	35.9	50.0	85.8	99.9%	32 - 160
p,m-Xylene	115	100	214	99.4%	46 - 148
o-Xylene	10.0	50.0	59.9	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 23381 - 23383, 23385 - 23386, 23401 - 23404

Analyst

Review



RECEIVED

MAY 07 2002

Environmental Bureau
Oil Conservation Division

Key Energy Services, Inc.

Four Corners Division
5651 US Highway 64
P.O. Box 900
Farmington, NM 87499

Phone: 505-327-4935
Fax: 505-327-4962

May 3, 2002

First Quarter 2002

Martyne J. Kieling
Environmental Geologist
New Mexico OCD
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87504

Denny Foust
Environmental Geologist
New Mexico OCD
Aztec, New Mexico 87410

RE: Key Energy Landfarm Subsurface Report

Dear Martyne,

Please find attached our Quarterly Treatment Zone Analysis.
Included is a simple drawing of the locations the samples were taken.

If you require additional information, please contact me at the Office 334-6416 or at the Facility 334-6186

Best Regards:

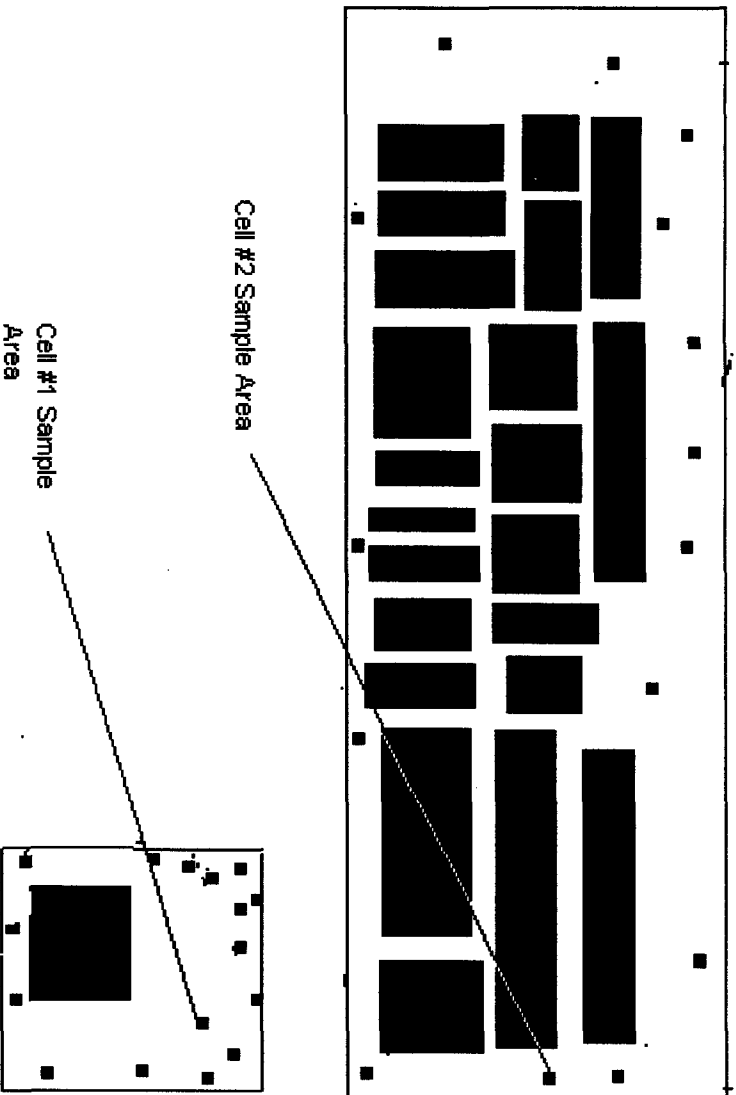
A handwritten signature in dark ink, appearing to read "Michael Talovich", written in a cursive, flowing style.

Michael Talovich
Disposal Manager
Key Energy Services

cc: Mr. Stone
Mr. Foust

5-03-02

NORTH



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 30, 2002

Mr. Mike Talovich
Key Energy Service, Inc.
P.O. Box 900
Farmington, NM 87499

Phone: (505) 327-0416

Client No.: 98065-001

Job No.: 806501

Dear Mr. Talovich,

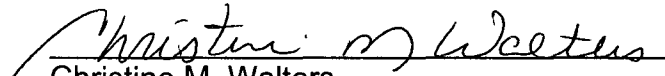
Enclosed are the analytical results for the sample collected from the location designated as "Landfarm". Two soil samples were collected by Key Energy Service designated personnel on 4/22/02, and received by the Envirotech laboratory on 4/22/02 for Total Metals RCRA list, Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015, BTEX per USEPA Method 8021 and Cation / Anion analysis.

The samples were documented on Envirotech Chain of Custody No. 9883. The samples were assigned Laboratory Nos. 22573 (Cell #1) and 22574 (Cell #2) for tracking purposes.

The samples were analyzed 4/24/02 through 4/26/02 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/key.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #1	Date Reported:	04-24-02
Laboratory Number:	22573	Date Sampled:	04-22-02
Chain of Custody:	9883	Date Received:	04-22-02
Sample Matrix:	Soil	Date Analyzed:	04-24-02
Preservative:	Cool	Date Extracted:	04-23-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

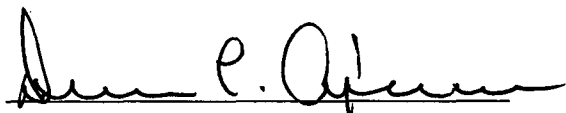
ND - Parameter not detected at the stated detection limit.

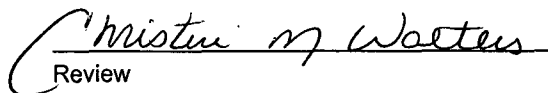
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	98 %

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: Landfarm.


Analyst


Review

Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #2	Date Reported:	04-24-02
Laboratory Number:	22574	Date Sampled:	04-22-02
Chain of Custody:	9883	Date Received:	04-22-02
Sample Matrix:	Soil	Date Analyzed:	04-24-02
Preservative:	Cool	Date Extracted:	04-23-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	24.6	2.2
o-Xylene	6.7	1.0
Total BTEX	31.3	

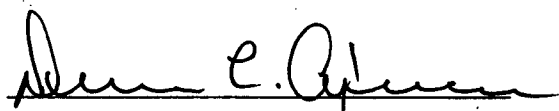
ND - Parameter not detected at the stated detection limit.

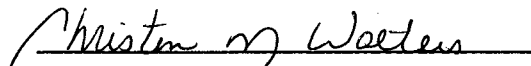
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	98 %

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: Landfarm.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-24-BTEX QA/QC	Date Reported:	04-24-02
Laboratory Number:	22573	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-24-02
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	6.9839E-002	7.0049E-002	0.3%	ND	0.2
Toluene	5.0724E-002	5.0825E-002	0.2%	ND	0.2
Ethylbenzene	8.2086E-002	8.2333E-002	0.3%	ND	0.2
p,m-Xylene	7.1064E-002	7.1278E-002	0.3%	ND	0.2
o-Xylene	6.2661E-002	6.2787E-002	0.2%	ND	0.1

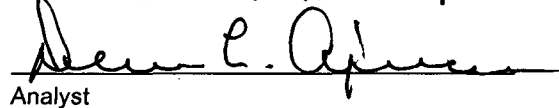
Duplicate Conc.: (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

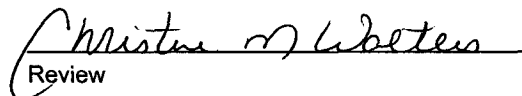
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.8	99.6%	39 - 150
Toluene	ND	50.0	49.8	99.6%	46 - 148
Ethylbenzene	ND	50.0	49.8	99.6%	32 - 160
p,m-Xylene	ND	100	99.5	99.5%	46 - 148
o-Xylene	ND	50.0	49.8	99.6%	46 - 148

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 22573 - 22574, 22578 and 22582 - 22585.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

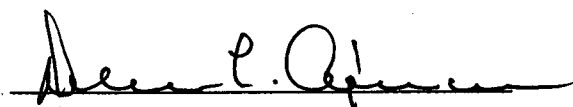
Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #1	Date Reported:	04-24-02
Laboratory Number:	22573	Date Sampled:	04-22-02
Chain of Custody No:	9883	Date Received:	04-22-02
Sample Matrix:	Soil	Date Extracted:	04-23-02
Preservative:	Cool	Date Analyzed:	04-24-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

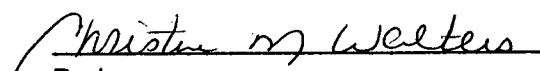
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Landfarm.


Analyst


Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

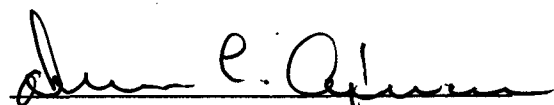
Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #2	Date Reported:	04-24-02
Laboratory Number:	22574	Date Sampled:	04-22-02
Chain of Custody No:	9883	Date Received:	04-22-02
Sample Matrix:	Soil	Date Extracted:	04-23-02
Preservative:	Cool	Date Analyzed:	04-24-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

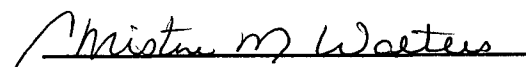
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Landfarm.


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-24-TPH QA/QC	Date Reported:	04-24-02
Laboratory Number:	22573	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-24-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	01-07-02	2.5028E-002	2.5003E-002	0.10%	0 - 15%
Diesel Range C10 - C28	01-07-02	1.2696E-002	1.2671E-002	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

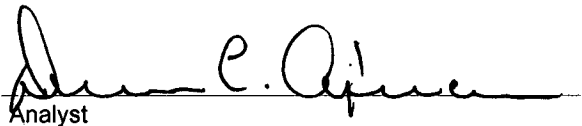
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

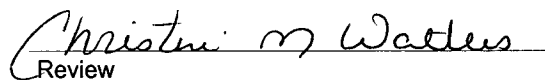
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	249	99.6%	75 - 125%

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 22573 - 22574, 22578 - 22580, 22582 - 22585.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

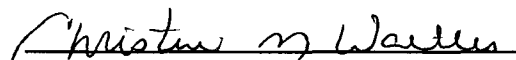
CATION / ANION ANALYSIS

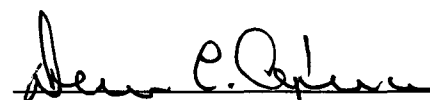
Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #1	Date Reported:	04-29-02
Laboratory Number:	22573	Date Sampled:	04-22-02
Chain of Custody:	9883	Date Received:	04-22-02
Sample Matrix:	Soil Extract	Date Extracted:	04-25-02
Preservative:	Cool	Date Analyzed:	04-26-02
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units
pH	6.60	s.u.	
Conductivity @ 25° C	51.5	umhos/cm	
Total Dissolved Solids @ 180C	32.0	mg/L	
Total Dissolved Solids (Calc)	28.8	mg/L	
SAR	1.0	ratio	
Total Alkalinity as CaCO3	14.0	mg/L	
Total Hardness as CaCO3	9.60	mg/L	
Bicarbonate as HCO3	14.0	mg/L	0.23 meq/L
Carbonate as CO3	<0.1	mg/L	0.00 meq/L
Hydroxide as OH	<0.1	mg/L	0.00 meq/L
Nitrate Nitrogen	0.4	mg/L	0.01 meq/L
Nitrite Nitrogen	0.027	mg/L	0.00 meq/L
Chloride	7.6	mg/L	0.21 meq/L
Fluoride	<0.01	mg/L	0.00 meq/L
Phosphate	1.4	mg/L	0.04 meq/L
Sulfate	<0.1	mg/L	0.00 meq/L
Iron	0.008	mg/L	0.00 meq/L
Calcium	3.84	mg/L	0.19 meq/L
Magnesium	<0.01	mg/L	0.00 meq/L
Potassium	<0.1	mg/L	0.00 meq/L
Sodium	7.0	mg/L	0.30 meq/L
Cations			0.50 meq/L
Anions			0.50 meq/L
Cation/Anion Difference			0.26%

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Landfarm.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

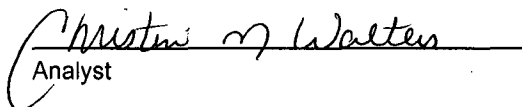
CATION / ANION ANALYSIS

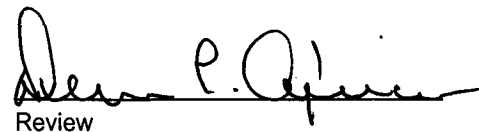
Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #2	Date Reported:	04-29-02
Laboratory Number:	22574	Date Sampled:	04-22-02
Chain of Custody:	9883	Date Received:	04-22-02
Sample Matrix:	Soil Extract	Date Extracted:	04-25-02
Preservative:	Cool	Date Analyzed:	04-26-02
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units
pH	6.93	s.u.	
Conductivity @ 25° C	54.0	umhos/cm	
Total Dissolved Solids @ 180C	36.0	mg/L	
Total Dissolved Solids (Calc)	34.4	mg/L	
SAR	0.8	ratio	
Total Alkalinity as CaCO3	17.2	mg/L	
Total Hardness as CaCO3	14.0	mg/L	
Bicarbonate as HCO3	17.2	mg/L	0.28 meq/L
Carbonate as CO3	<0.1	mg/L	0.00 meq/L
Hydroxide as OH	<0.1	mg/L	0.00 meq/L
Nitrate Nitrogen	0.2	mg/L	0.00 meq/L
Nitrite Nitrogen	0.004	mg/L	0.00 meq/L
Chloride	5.6	mg/L	0.16 meq/L
Fluoride	<0.01	mg/L	0.00 meq/L
Phosphate	<0.1	mg/L	0.00 meq/L
Sulfate	6.3	mg/L	0.13 meq/L
Iron	<0.001	mg/L	0.00 meq/L
Calcium	4.32	mg/L	0.22 meq/L
Magnesium	0.78	mg/L	0.06 meq/L
Potassium	<0.1	mg/L	0.00 meq/L
Sodium	6.8	mg/L	0.30 meq/L
Cations			0.58 meq/L
Anions			0.57 meq/L
Cation/Anion Difference			0.21%

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: Landfarm.


Analyst


Review

Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #1	Date Reported:	04-24-02
Laboratory Number:	22573	Date Sampled:	04-22-02
Chain of Custody:	9883	Date Received:	04-22-02
Sample Matrix:	Soil	Date Analyzed:	04-24-02
Preservative:	Cool	Date Digested:	04-23-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.035	0.001	5.0
Barium	4.93	0.001	100
Cadmium	0.029	0.001	1.0
Chromium	2.07	0.001	5.0
Lead	2.75	0.001	5.0
Mercury	0.001	0.001	0.2
Selenium	0.019	0.001	1.0
Silver	ND	0.001	5.0

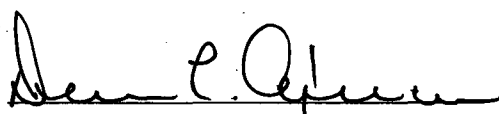
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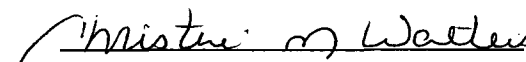
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Landfarm.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Key Energy	Project #:	98065-001
Sample ID:	Cell #2	Date Reported:	04-24-02
Laboratory Number:	22574	Date Sampled:	04-22-02
Chain of Custody:	9883	Date Received:	04-22-02
Sample Matrix:	Soil	Date Analyzed:	04-24-02
Preservative:	Cool	Date Digested:	04-23-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.059	0.001	5.0
Barium	6.51	0.001	100
Cadmium	0.052	0.001	1.0
Chromium	2.33	0.001	5.0
Lead	3.42	0.001	5.0
Mercury	0.001	0.001	0.2
Selenium	0.028	0.001	1.0
Silver	ND	0.001	5.0

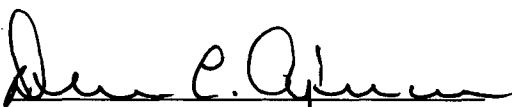
ND - Parameter not detected at the stated detection limit.

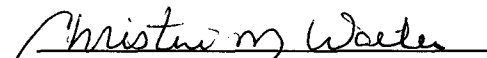
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Landfarm.**


Analyst


Review

TRACE METAL ANALYSIS
Quality Control /
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-24-TM QA/QC	Date Reported:	04-24-02
Laboratory Number:	22572	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	04-24-02
Condition:	N/A	Date Digested:	04-23-02

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.036	0.036	0.0%	0% - 30%
Barium	ND	ND	0.001	3.22	3.20	0.6%	0% - 30%
Cadmium	ND	ND	0.001	0.027	0.027	0.0%	0% - 30%
Chromium	ND	ND	0.001	2.19	2.17	0.9%	0% - 30%
Lead	ND	ND	0.001	1.66	1.65	0.6%	0% - 30%
Mercury	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

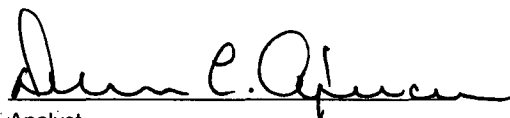
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.036	0.534	99.6%	80% - 120%
Barium	0.500	3.22	3.70	99.5%	80% - 120%
Cadmium	0.500	0.027	0.525	99.6%	80% - 120%
Chromium	0.500	2.19	2.66	98.9%	80% - 120%
Lead	0.500	1.66	2.14	99.1%	80% - 120%
Mercury	0.050	0.002	0.051	98.1%	80% - 120%
Selenium	0.500	0.022	0.521	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

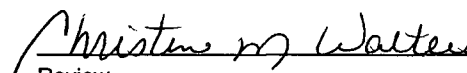
ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 22572 - 22574 and 22581.


Analyst


Review

09883

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