NM2 - 4

MONITORING REPORTS YEAR(S):

2003-2001

BMG

BENSON-MONTIN-GREER DRILLING CORP.

RECEIVED
JAN 22 2004
Environmental Bureau
Oil Conservation Division

January 13, 2004

Ms. Martyne J. Kieling
NMOCD
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Annual Report for Benson-Montin-Greer Drilling Corp. Centralized Surface Waste Management Facility (Permit No. NM-02-0004) located in NW/4 Section 20, Township 25 North, Range 1 East, NMPM, Rio Arriba County, New Mexico

Dear Ms. Kieling:

Benson-Montin-Greer Drilling Corp. (BMG) submits the following Annual Report for the BMG Centralized Surface Waste Management Facility located in the NW/4 of Section 20, Township 25 North, Range 1 East, NMPM, Rio Arriba County, New Mexico. This Annual Report is to be submitted before March 1, 2004 as required by Permit No. NM-02-0004.

1. Attachment I is treatment zone monitoring results.
2. Attachment II is Monthly Inspection of leak detection system.
3. There are no below grade sumps to monitor.
4. There were no spills of record at the facility in the past year.
5. BMG continues to maintain records at the facility with internal forms.
6. There were no new structures installed at the facility in the past year.

Should you have any questions or require additional information, please contact me at the letterhead address and telephone number.

Sincerely,

Mike Dimond

Mike Dimond
Vice-President

MD/tlp

cc: Mr. Denny Foust, NMOCD with attachments
AG, MD, BG, file

4900 College Boulevard, Farmington, NM 87402 (505) 325-8874 Fax (505) 327-9207

1-28-04

BMG

BENSON-MONTIN-GREER DRILLING CORP.

January 6, 2003 **Certified Mail No. 7001-0320-0003-0994-5421**

Ms. Martyne J. Kieling
NMOCD
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: Annual Report for Benson-Montin-Greer Drilling Corporation Centralized Surface Waste Management Facility (Permit No. NM-02-0004) located in NW/4 of Section 20, Township 25 North, Range 1 East, NMPM, Rio Arriba County, New Mexico.

Ms. Kieling,

Benson-Montin-Greer Drilling Corporation (BMG) submits the following Annual Report for the BMG Centralized Surface Waste Management Facility located in the NW/4 of Section 20, T. 25 N., R. 1 E., NMPM, Rio Arriba County, NM. This Annual Report is to be submitted before March 1, ~~2003~~ 2004 as required by Permit No. NM-02-0004.

1. Attachment I is treatment zone monitoring results.
2. Attachment II is Monthly Inspection of leak detection system.
3. There are no below grade sumps to monitor.
4. There were no spills of record at the facility in the past year.
5. BMG continues to maintain records at the facility with internal forms.
6. There were no new structures installed at the facility in the past year.

~~A closure sample was obtained on Cell #4 in the second quarter but did not meet closure requirements. We plan on obtaining additional closure samples during 2003.~~

Should you have any questions or require additional information please contact me at the letterhead address and telephone number.

Sincerely

Josh Cooper

Josh Cooper
Petroleum Engineer

cc: Mr. Denny Foust – NMOCD Aztec w/attachments, AG, MD, JC, BG, RM, file

ATTACHMENT I

2003 Quarterly Treatment Zone Sample Analysis Results

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 17, 2003

Mr. Josh Cooper
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Cooper,

Enclosed are the analytical results for the samples collected from the location designated as "LlavesYard". Three soil samples were collected by Benson Montin Greer personnel on 01/15/03, and received by the Envirotech laboratory on 01/15/03 for TPH per USEPA 8015 and BTEX per USEPA 8021 analysis.

The samples were documented on Envirotech Chain of Custody No. 10523 and assigned Laboratory Nos. 24564 (Cell #4), 24565 (Cell #3) and 24566 (Cell #1) for tracking purposes.

The samples were analyzed on 01/16/03 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

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	01-16-03
Laboratory Number:	24564	Date Sampled:	01-15-03
Chain of Custody:	10523	Date Received:	01-15-03
Sample Matrix:	Soil	Date Analyzed:	01-16-03
Preservative:	Cool	Date Extracted:	01-16-03
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	**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: **Llaves Yard. Landfarm Closure Sample, 5 Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	01-16-03
Laboratory Number:	24565	Date Sampled:	01-15-03
Chain of Custody:	10523	Date Received:	01-15-03
Sample Matrix:	Soil	Date Analyzed:	01-16-03
Preservative:	Cool	Date Extracted:	01-16-03
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: **Llaves Yard. Landfarm Closure Sample, 5 Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	01-16-03
Laboratory Number:	24566	Date Sampled:	01-15-03
Chain of Custody:	10523	Date Received:	01-15-03
Sample Matrix:	Soil	Date Analyzed:	01-16-03
Preservative:	Cool	Date Extracted:	01-16-03
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	**98 %**
	1,4-difluorobenzene	**98 %**
	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: **Llaves Yard. Landfarm Closure Sample, 5 Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-16-BTEX QA/QC	Date Reported:	01-16-03
Laboratory Number:	24564	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-16-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	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	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	49.8	99.6%	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 24564 - 24566.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	01-16-03
Laboratory Number:	24564	Date Sampled:	01-15-03
Chain of Custody No:	10523	Date Received:	01-15-03
Sample Matrix:	Soil	Date Extracted:	01-16-03
Preservative:	Cool	Date Analyzed:	01-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2.6**	**0.2**
Diesel Range (C10 - C28)	**23.8**	**0.1**
Total Petroleum Hydrocarbons	**26.4**	**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: **Llaves Yard. Landfarm Closure Sample, 5 Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	01-16-03
Laboratory Number:	24565	Date Sampled:	01-15-03
Chain of Custody No:	10523	Date Received:	01-15-03
Sample Matrix:	Soil	Date Extracted:	01-16-03
Preservative:	Cool	Date Analyzed:	01-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2.7**	**0.2**
Diesel Range (C10 - C28)	**7.1**	**0.1**
Total Petroleum Hydrocarbons	**9.8**	**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: **Llaves Yard. Landfarm Closure Sample, 5 Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	01-16-03
Laboratory Number:	24566	Date Sampled:	01-15-03
Chain of Custody No:	10523	Date Received:	01-15-03
Sample Matrix:	Soil	Date Extracted:	01-16-03
Preservative:	Cool	Date Analyzed:	01-16-03
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: **Llaves Yard. Landfarm Closure Sample, 5 Pt. Composite.**

Analyst

Review

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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:	01-16-TPH QA/QC	Date Reported:	01-16-03
Laboratory Number:	24564	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-16-03
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	**2.6**	**2.5**	**3.8%**	**0 - 30%**
Diesel Range C10 - C28	**23.8**	**23.7**	**0.4%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**2.6**	**250**	**252**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**23.8**	**250**	**273**	**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 24564 - 24566.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

10523

Client / Project Name	Project Location
Benson-Montin-Greer / Landfarm	Llaves Yard
Sampler: Josh Cooper	Client No. 99074-005

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX 8021	TPH 8015					Remarks
												Closure Samples.
Cell #4	1/15/03	9:30	24564	Soil	1	✓	✓					Samples are composites of 5 locations from each respective cell.
Cell #3	1/15/03	10:00	24565	"	1	✓	✓					
Cell #1	1/15/03	10:30	24566	"	1	✓	✓					5 pt. Composite

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Josh Cooper	1-15-03	14:50	Jamie L. Upton	1-15-03	14:50
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

March 6, 2003

Mr. Josh Cooper
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Cooper,

Enclosed are the analytical results for the samples collected from the location designated as "Liaves Landfarm". Four soil samples were collected by Benson Montin Greer personnel on 03/04/03, and received by the Envirotech laboratory on 03/04/03 for TPH per USEPA 8015 and BTEX per USEPA 8021 analysis.

The samples were documented on Envirotech Chain of Custody No. 10667 and assigned Laboratory Nos. 24991 (Cell #1), 24992 (Cell #2), 24993 (Cell #3) and 24994 (Cell #4) for tracking purposes.

The samples were analyzed on 03/05/03 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/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	03-06-03
Laboratory Number:	24991	Date Sampled:	03-04-03
Chain of Custody:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Analyzed:	03-05-03
Preservative:	Cool	Date Extracted:	03-05-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**160**	**1.8**
Toluene	**620**	**1.7**
Ethylbenzene	**571**	**1.5**
p,m-Xylene	**650**	**2.2**
o-Xylene	**450**	**1.0**
Total BTEX	**2,450**	

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: **Llaves Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	03-06-03
Laboratory Number:	24992	Date Sampled:	03-04-03
Chain of Custody:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Analyzed:	03-05-03
Preservative:	Cool	Date Extracted:	03-05-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**20.0**	**1.8**
Toluene	**190**	**1.7**
Ethylbenzene	**262**	**1.5**
p,m-Xylene	**200**	**2.2**
o-Xylene	**320**	**1.0**
Total BTEX	**992**	

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: **Llaves Landfarm.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	03-06-03
Laboratory Number:	24993	Date Sampled:	03-04-03
Chain of Custody:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Analyzed:	03-05-03
Preservative:	Cool	Date Extracted:	03-05-03
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: **Llaves Landfarm.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	03-06-03
Laboratory Number:	24994	Date Sampled:	03-04-03
Chain of Custody:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Analyzed:	03-05-03
Preservative:	Cool	Date Extracted:	03-05-03
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: **Llaves Landfarm.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-05-BTEX QA/QC	Date Reported:	03-06-03
Laboratory Number:	24989	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-05-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.1274E-002	4.1398E-002	0.3%	ND	0.2
Toluene	4.8348E-002	4.8445E-002	0.2%	ND	0.2
Ethylbenzene	7.9848E-002	8.0088E-002	0.3%	ND	0.2
p,m-Xylene	7.6417E-002	7.6647E-002	0.3%	ND	0.2
o-Xylene	7.1539E-002	7.1683E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	200	200	0.0%	0 - 30%	1.8
Toluene	1,020	1,000	2.0%	0 - 30%	1.7
Ethylbenzene	871	854	2.0%	0 - 30%	1.5
p,m-Xylene	3,320	3,290	0.9%	0 - 30%	2.2
o-Xylene	1,320	1,310	0.8%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	200	50.0	240	96.0%	39 - 150
Toluene	1,020	50.0	1,060	99.1%	46 - 148
Ethylbenzene	871	50.0	919	99.8%	32 - 160
p,m-Xylene	3,320	100	3,410	99.7%	46 - 148
o-Xylene	1,320	50.0	1,360	99.3%	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 24989 - 24994.**

Christine Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	03-06-03
Laboratory Number:	24991	Date Sampled:	03-04-03
Chain of Custody No:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Extracted:	03-05-03
Preservative:	Cool	Date Analyzed:	03-05-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**10.0**	**0.2**
Diesel Range (C10 - C28)	**35.1**	**0.1**
Total Petroleum Hydrocarbons	**45.1**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Llaves Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	03-06-03
Laboratory Number:	24992	Date Sampled:	03-04-03
Chain of Custody No:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Extracted:	03-05-03
Preservative:	Cool	Date Analyzed:	03-05-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**10.0**	**0.2**
Diesel Range (C10 - C28)	**13.3**	**0.1**
Total Petroleum Hydrocarbons	**23.3**	**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: **Llaves Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	03-06-03
Laboratory Number:	24993	Date Sampled:	03-04-03
Chain of Custody No:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Extracted:	03-05-03
Preservative:	Cool	Date Analyzed:	03-05-03
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)	**6.2**	**0.1**
Total Petroleum Hydrocarbons	**6.2**	**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: **Llaves Landfarm.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	03-06-03
Laboratory Number:	24994	Date Sampled:	03-04-03
Chain of Custody No:	10667	Date Received:	03-04-03
Sample Matrix:	Soil	Date Extracted:	03-05-03
Preservative:	Cool	Date Analyzed:	03-05-03
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)	**3.1**	**0.1**
Total Petroleum Hydrocarbons	**3.1**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Llaves Landfarm.**

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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:	03-05-TPH QA/QC	Date Reported:	03-06-03
Laboratory Number:	24989	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-05-03
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	**1,200**	**1,200**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**990**	**987**	**0.3%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**1,200**	**250**	**1,440**	**99.3%**	**75 - 125%**
Diesel Range C10 - C28	**990**	**250**	**1,240**	**100%**	**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 24989 - 24994.**

Analyst

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CHAIN OF CUSTODY RECORD

10667

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BMG	LLAVES LANDFARM	
Sampler: COOPER	Client No. 99074-605	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX	TPH					Remarks
CELL #1	3/4/03	12:25	24991	SOIL	1	✓	✓					
CELL #2	↓	12:05	24992	↓	1	✓	✓					
CELL #3		11:40	24993		1	✓	✓					
CELL #4	↓	11:00	24994	↓	1	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jon L Cooper	3/4/03	3:00	Mitch Walter	3/4/03	15:00
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

June 26, 2003

Mr. Josh Cooper
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Cooper,

Enclosed are the analytical results for the samples collected from the location designated as "Landfarm". Four soil samples were collected by Benson Montin Greer personnel on 06/24/03, and received by the Envirotech laboratory on 06/24/03 for TPH per USEPA 8015 and BTEX per USEPA 8021 analysis.

The samples were documented on Envirotech Chain of Custody No. 11072 and assigned Laboratory Nos. 25991 (Cell #1), 25992 (Cell #2), 25993 (Cell #3) and 25994 (Cell #4) for tracking purposes.

The samples were analyzed on 06/25/03 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/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	06-25-03
Laboratory Number:	25991	Date Sampled:	06-24-03
Chain of Custody No:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Extracted:	06-25-03
Preservative:	Cool	Date Analyzed:	06-25-03
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 Quarterly Background Sample @ 36".**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	06-25-03
Laboratory Number:	25992	Date Sampled:	06-24-03
Chain of Custody No:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Extracted:	06-25-03
Preservative:	Cool	Date Analyzed:	06-25-03
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 Quarterly Background Sample @ 36".**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	06-25-03
Laboratory Number:	25993	Date Sampled:	06-24-03
Chain of Custody No:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Extracted:	06-25-03
Preservative:	Cool	Date Analyzed:	06-25-03
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 Quarterly Background Sample @ 36".**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	06-25-03
Laboratory Number:	25994	Date Sampled:	06-24-03
Chain of Custody No:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Extracted:	06-25-03
Preservative:	Cool	Date Analyzed:	06-25-03
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 Quarterly Background Sample @ 36".**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-25-TPH QA/QC	Date Reported:	06-25-03
Laboratory Number:	25987	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-25-03
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	**28.7**	**28.6**	**0.3%**	**0 - 30%**
Diesel Range C10 - C28	**23.7**	**23.6**	**0.4%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**28.7**	**250**	**278**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**23.7**	**250**	**273**	**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 25987 - 25994.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	06-25-03
Laboratory Number:	25991	Date Sampled:	06-24-03
Chain of Custody:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Analyzed:	06-25-03
Preservative:	Cool	Date Extracted:	06-25-03
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	**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 Quarterly Background Sample @ 36".**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	06-25-03
Laboratory Number:	25992	Date Sampled:	06-24-03
Chain of Custody:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Analyzed:	06-25-03
Preservative:	Cool	Date Extracted:	06-25-03
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	**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 Quarterly Background Sample @ 36".**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	06-25-03
Laboratory Number:	25993	Date Sampled:	06-24-03
Chain of Custody:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Analyzed:	06-25-03
Preservative:	Cool	Date Extracted:	06-25-03
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	**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 Quarterly Background Sample @ 36".**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	06-25-03
Laboratory Number:	25994	Date Sampled:	06-24-03
Chain of Custody:	11072	Date Received:	06-24-03
Sample Matrix:	Soil	Date Analyzed:	06-25-03
Preservative:	Cool	Date Extracted:	06-25-03
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	**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 Quarterly Background Sample @ 36".**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	06-25-BTEX QA/QC	Date Reported:	06-25-03
Laboratory Number:	25987	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-25-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
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	31.8	32.8	3.1%	0 - 30%	1.8
Toluene	439	430	2.0%	0 - 30%	1.7
Ethylbenzene	293	287	2.0%	0 - 30%	1.5
p,m-Xylene	1,460	1,510	3.4%	0 - 30%	2.2
o-Xylene	776	801	3.2%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	31.8	50.0	81.7	99.9%	39 - 150
Toluene	439	50.0	488	99.8%	46 - 148
Ethylbenzene	293	50.0	342	99.5%	32 - 160
p,m-Xylene	1,460	100	1,550	99.4%	46 - 148
o-Xylene	776	50.0	824	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 25987 - 25994.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11072

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Benson-Montin-Greer	Landfarm	
Sampler:	Client No. 99074-005	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX 8021	TPH 8015					Remarks
Cell #1 (36")	6-24-03	11:50	25991	Soil	1	✓	✓					Quarterly Background Sample @ 36"
Cell #2 (36")	"	12:35	25992	"	1	✓	✓					
Cell #3 (36")	"	13:00	25993	"	1	✓	✓					
Cell #4 (36")	"	13:15	25994	"	1	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Josh Cooper (by phone DeAnn)	6-24-03	17:00	[signature]	6-24-03	17:00
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 1, 2003

Mr. Josh Cooper
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Cooper,

Enclosed are the analytical results for the samples collected from the location designated as "Liaves Landfarm". Four soil samples were collected by Benson Montin Greer personnel on 09/29/03, and received by the Envirotech laboratory on 09/30/03 for TPH per USEPA 8015 and BTEX per USEPA 8021 analysis.

The samples were documented on Envirotech Chain of Custody No. 11373 and assigned Laboratory Nos. 26745 (Cell #1), 26746 (Cell #2), 26747 (Cell #3) and 26748 (Cell #4) for tracking purposes.

The samples were analyzed on 09/30/03 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

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-30-03
Laboratory Number:	26745	Date Sampled:	09-29-03
Chain of Custody No:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Extracted:	09-30-03
Preservative:	Cool	Date Analyzed:	09-30-03
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: **Llaves Landfarm.**
Quarterly Background Sample 24"-36" Below Treatment Zone.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	09-30-03
Laboratory Number:	26746	Date Sampled:	09-29-03
Chain of Custody No:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Extracted:	09-30-03
Preservative:	Cool	Date Analyzed:	09-30-03
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: **Llaves Landfarm.**
Quarterly Background Sample 24"-36" Below Treatment Zone.

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-30-03
Laboratory Number:	26747	Date Sampled:	09-29-03
Chain of Custody No:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Extracted:	09-30-03
Preservative:	Cool	Date Analyzed:	09-30-03
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: **Llaves Landfarm.**
Quarterly Background Sample 24"-36" Below Treatment Zone.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-30-03
Laboratory Number:	26748	Date Sampled:	09-29-03
Chain of Custody No:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Extracted:	09-30-03
Preservative:	Cool	Date Analyzed:	09-30-03
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: **Llaves Landfarm.**
Quarterly Background Sample 24"-36" Below Treatment Zone.

Analyst

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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:	09-30-TPH QA/QC	Date Reported:	09-30-03
Laboratory Number:	26729	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-30-03
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	**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 26729 - 26734, 26745 - 26748.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-30-03
Laboratory Number:	26745	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	09-30-03
Laboratory Number:	26746	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-30-03
Laboratory Number:	26747	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-30-03
Laboratory Number:	26748	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

Analyst

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-30-BTEX QA/QC	Date Reported:	09-30-03
Laboratory Number:	26734	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-30-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
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	152	150	1.4%	0 - 30%	1.8
Toluene	1,460	1,440	1.4%	0 - 30%	1.7
Ethylbenzene	1,140	1,120	1.8%	0 - 30%	1.5
p,m-Xylene	2,790	2,750	1.4%	0 - 30%	2.2
o-Xylene	1,650	1,630	1.2%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	152	50.0	201	99.4%	39 - 150
Toluene	1,460	50.0	1,500	99.3%	46 - 148
Ethylbenzene	1,140	50.0	1,180	99.2%	32 - 160
p,m-Xylene	2,790	100	2,880	99.7%	46 - 148
o-Xylene	1,650	50.0	1,690	99.4%	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 26734, 26745 - 26748.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11373

Client / Project Name	Project Location
Benson Montin Greer	Llaves Land Farm
Sampler:	Client No. 99074-005

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
												Quarterly Background
Cell #1	9-29-03	13:20	26745	Soil	1	✓	✓					24"-36" below
Cell #2		12:30	26746		1	✓	✓					treatment zone
Cell #3		12:45	26747		1	✓	✓					
Cell #4		14:00	26748		1	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9-30-03	7:40	[signature]	9-30-03	7:40
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 7, 2004

Mr. Mike Diamond
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No. 99074-005
Job No. 907405

Dear Mr. Diamond,

Enclosed are the analytical results for the samples collected from the location designated as "Liaves Landfarm". Four soil samples were collected by Benson Montin Greer Personnel on 09/29/03, and received by the Envirotech laboratory on 09/30/03 for TPH per USEPA 8015 and BTEX per USEPA 8021 analysis.

The samples were documented on Envirotech Chain of Custody No. 11373 and assigned Laboratory Nos. 26745 (Cell#1), 26746 (Cell#2), 26747 (Cell #3), and 26748 (Cell#4) for tracking purposes.

The samples were analyzed on 09/30/03 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

Christine M. Walters
Laboratory Coordinator/ Environmental Scientist

Enc.

CMW/cmw

C:/files/labreports/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-30-03
Laboratory Number:	26745	Date Sampled:	09-29-03
Chain of Custody No:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Extracted:	09-30-03
Preservative:	Cool	Date Analyzed:	09-30-03
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: **Llaves Landfarm.**
Quarterly Background Sample 24"-36" Below Treatment Zone.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-30-03
Laboratory Number:	26747	Date Sampled:	09-29-03
Chain of Custody No:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Extracted:	09-30-03
Preservative:	Cool	Date Analyzed:	09-30-03
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: **Llaves Landfarm.**
Quarterly Background Sample 24"-36" Below Treatment Zone.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-30-03
Laboratory Number:	26748	Date Sampled:	09-29-03
Chain of Custody No:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Extracted:	09-30-03
Preservative:	Cool	Date Analyzed:	09-30-03
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: **Llaves Landfarm.**
Quarterly Background Sample 24"-36" Below Treatment Zone.

Analyst

Review

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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:	09-30-TPH QA/QC	Date Reported:	09-30-03
Laboratory Number:	26729	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-30-03
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	**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 26729 - 26734, 26745 - 26748.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-30-03
Laboratory Number:	26745	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	09-30-03
Laboratory Number:	26746	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-30-03
Laboratory Number:	26747	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson Montin Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-30-03
Laboratory Number:	26748	Date Sampled:	09-29-03
Chain of Custody:	11373	Date Received:	09-30-03
Sample Matrix:	Soil	Date Analyzed:	09-30-03
Preservative:	Cool	Date Extracted:	09-30-03
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	**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: **Llaves Landfarm Quarterly Background Sample 24"-36" Below Treatment Zone.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-30-BTEX QA/QC	Date Reported:	09-30-03
Laboratory Number:	26734	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-30-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
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	152	150	1.4%	0 - 30%	1.8
Toluene	1,460	1,440	1.4%	0 - 30%	1.7
Ethylbenzene	1,140	1,120	1.8%	0 - 30%	1.5
p,m-Xylene	2,790	2,750	1.4%	0 - 30%	2.2
o-Xylene	1,650	1,630	1.2%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	152	50.0	201	99.4%	39 - 150
Toluene	1,460	50.0	1,500	99.3%	46 - 148
Ethylbenzene	1,140	50.0	1,180	99.2%	32 - 160
p,m-Xylene	2,790	100	2,880	99.7%	46 - 148
o-Xylene	1,650	50.0	1,690	99.4%	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 26734, 26745 - 26748.**

Analyst

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CHAIN OF CUSTODY RECORD

11373

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Bensen Market Green	Claves Land Farm	
Sampler:	Client No. 99074-005	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
												Quarterly Background
Cell #1	9-29-03	13:50	26745	Soil	1	✓	✓					24"-36" below treatment zone
Cell #2	"	12:30	26746	"	1	✓	✓					
Cell #3	"	12:45	26747	"	1	✓	✓					
Cell #4	"	14:00	26748	"	1	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9-30-03	7:40	[signature]	9-30-03	7:40
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ATTACHMENT II

2003 Monthly Inspection of Evap. Pond Leak Detection System

BENSON-MONTIN-GREER DRILLING CORP.

NW/4 SECTION 20, T25N, R1E, NMPM, Rio Arriba County, NM
Permit NM-02-0004
Monthly Evaporation Impoundment Monitor Tube Fluid Levels.

For Calendar Year January 1/03 **to December** 5/03

Date	Monitor Reading Taken by:	Level (Inches)	Change in fluid level from prior Month (Inches)
Jan- 2/03	Ben L Gonzales	1"	—
Feb- 5/03	Ben L Gonzales	1"	—
Mar- 5/03	Ben L Gonzales	1"	—
Apr- 3/03	Ben L Gonzales	1"	—
May- 1/03	Ben	1"	—
Jun- 4/03	Ben L Gonzales	1"	—
Jul- 3/03	Ben L Gonzales	1"	—
Aug- 20/03	Ben L Gonzales	1"	—
Sep- 15/03	Ben L Gonzales	1"	—
Oct- 17/03	Ben L Gonzales	1"	—
Nov- 10/03	Ben L Gonzales	1"	—
Dec- 5/03	Ben L Gonzales	1"	—

BMG

BENSON-MONTIN-GREER DRILLING CORP.

January 6, 2003 **Certified Mail No. 7001-0320-0003-0994-5421**

Ms. Martyne J. Kieling
NMOCD
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

RECEIVED
JAN 0 8 2003
Environmental Bureau
Oil Conservation Division

RE: Annual Report for Benson-Montin-Greer Drilling Corporation Centralized Surface Waste Management Facility (Permit No. NM-02-0004) located in NW/4 of Section 20, Township 25 North, Range 1 East, NMPM, Rio Arriba County, New Mexico.

Ms. Kieling,

Benson-Montin-Greer Drilling Corporation (BMG) submits the following Annual Report for the BMG Centralized Surface Waste Management Facility located in the NW/4 of Section 20, T. 25 N., R. 1 E., NMPM, Rio Arriba County, NM. This Annual Report is to be submitted before March 1, 2003 as required by Permit No. NM-02-0004.

1. Attachment I is treatment zone monitoring results.
2. Attachment II is Monthly Inspection of leak detection system.
3. There are no below grade sumps to monitor.
4. There were no spills of record at the facility in the past year.
5. BMG continues to maintain records at the facility with internal forms.
6. There were no new structures installed at the facility in the past year.

A closure sample was obtained on Cell #4 in the second quarter but did not meet closure requirements. We plan on obtaining additional closure samples during 2003.

Should you have any questions or require additional information please contact me at the letterhead address and telephone number.

Sincerely

Josh Cooper

Josh Cooper
Petroleum Engineer

cc: Mr. Denny Foust – NMOCD Aztec w/attachments, AG, MD, JC, BG, RM, file

4900 College Boulevard, Farmington, NM 87402 (505) 325-8874 Fax (505) 327-9207

1-14-02

Attachment I

2002 Quarterly Treatment Zone Sample Analysis Results

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

1st. QTR. 2002

ORIGINAL NMOCD-Santa Fe

March 19, 2002

Mr. Pat Sanchez
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Sanchez,

Enclosed are the analytical results for the samples collected from the location designated as "BMG LIAVES Land Farm". Four soil samples were collected by Benson Montin Greer personnel on 3/13/02, and received by the Envirotech laboratory on 3/13/02 for TPH per USEPA 8015 and BTEX per USEPA 8021.

The samples were documented on Envirotech Chain of Custody No. 8833 and assigned Laboratory Nos. 22281 (Cell #4), 22282 (Cell #3), 22283 (Cell #2) and 22284 (Cell #1) for tracking purposes.

The samples were analyzed on 3/18/02 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/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	03-18-02
Laboratory Number:	22284	Date Sampled:	03-13-02
Chain of Custody:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Analyzed:	03-18-02
Preservative:	Cool	Date Extracted:	03-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**7.5**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**13.1**	**2.2**
o-Xylene	**4.4**	**1.0**
Total BTEX	**25.0**	

ND - Parameter not detected at the stated detection limit.

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

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treatment Zone.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	03-18-02
Laboratory Number:	22284	Date Sampled:	03-13-02
Chain of Custody No:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Extracted:	03-14-02
Preservative:	Cool	Date Analyzed:	03-18-02
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: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treat Zone.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	03-18-02
Laboratory Number:	22283	Date Sampled:	03-13-02
Chain of Custody:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Analyzed:	03-18-02
Preservative:	Cool	Date Extracted:	03-14-02
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	**98 %**
	1,4-difluorobenzene	**98 %**
	Bromochlorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treatment Zone.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	03-18-02
Laboratory Number:	22283	Date Sampled:	03-13-02
Chain of Custody No:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Extracted:	03-14-02
Preservative:	Cool	Date Analyzed:	03-18-02
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: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treat Zone.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	03-18-02
Laboratory Number:	22282	Date Sampled:	03-13-02
Chain of Custody:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Analyzed:	03-18-02
Preservative:	Cool	Date Extracted:	03-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**4.0**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**4.0**	

ND - Parameter not detected at the stated detection limit.

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

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treatment Zone.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	03-18-02
Laboratory Number:	22282	Date Sampled:	03-13-02
Chain of Custody No:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Extracted:	03-14-02
Preservative:	Cool	Date Analyzed:	03-18-02
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: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treat Zone.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	03-18-02
Laboratory Number:	22281	Date Sampled:	03-13-02
Chain of Custody:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Analyzed:	03-18-02
Preservative:	Cool	Date Extracted:	03-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**23.2**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**17.9**	**2.2**
o-Xylene	**2.3**	**1.0**
Total BTEX	**43.4**	

ND - Parameter not detected at the stated detection limit.

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

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treatment Zone.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	03-18-02
Laboratory Number:	22281	Date Sampled:	03-13-02
Chain of Custody No:	8833	Date Received:	03-13-02
Sample Matrix:	Soil	Date Extracted:	03-14-02
Preservative:	Cool	Date Analyzed:	03-18-02
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: **Llaves Landfarm.**
BMG Landfarm Qtrly Sample Treat Zone.

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-18-BTEX QA/QC	Date Reported:	03-18-02
Laboratory Number:	22240	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-18-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
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**	**49.9**	**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 sample 22240 - 22245 and 22281 - 22284.**

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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:	03-18-TPH QA/QC	Date Reported:	03-18-02
Laboratory Number:	22240	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-18-02
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**	**248**	**99.3%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**248**	**99.3%**	**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 22240 - 22245 and 22281 - 22284.**

Analyst

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CHAIN OF CUSTODY RECORD

08833

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BM6 (Treatment Zone) Land Farm QTRLY TESTS	LIVES LANDFARM	
Sampler: PAT SANCHEZ 505-325-8874	Client No. 99074-005	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8021 BTEX	8015M TPH					Remarks
												BM6 Land Farm QTR LY Samples
Cell #4	3/13/02	9:40A	22281	Soil	2	1	1					Treatment Zone
Cell #3	3/13/02	10:05A	22282	Soil	2	1	1					Treatment Zone
Cell #2	3/13/02	10:20A	22283	Soil	2	1	1					Treatment ZONE
Cell #1	3/13/02	10:35A	22284	Soil	2	1	1					Treatment Zone

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/13/02	4:30PM	Christa Waeter	3-13-02	16:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact HMB	✓		
Cool - Ice/Blue Ice HMB	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

2nd QTR. 2002

June 13, 2002 ORIGINAL

NMOCD - SANTA FE

Ms. Patricia Sanchez
Benson Montin Greer
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874

Client No.: 99074-005
Job No.: 907405

Dear Mr. Sanchez,

Enclosed are the analytical results for the samples collected from the location designated as "Llaves Land Farm". Five soil samples were collected by Benson Montin Greer personnel on 6/11/02, and received by the Envirotech laboratory on 6/11/02 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. 8834 and assigned Laboratory Nos. 22894 (Cell 4 (Closure)), 22895 (Cell 4 (Treatment)), 22896 (Cell 3 (Treatment)), 22897 (Cell 2 (Treatment)) and 22898 (Cell 1 (Treatment)) for tracking purposes.

The samples were analyzed on 6/12/02 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

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/benson.wpd

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 1 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22898	Date Sampled:	06-11-02
Chain of Custody:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Analyzed:	06-12-02
Preservative:	Cool	Date Extracted:	06-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**3.5**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**3.1**	**1.0**
Total BTEX	**6.6**	

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: **Llaves Land Farm Treatment Zone Cell 1.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 1 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22898	Date Sampled:	06-11-02
Chain of Custody No:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Extracted:	06-12-02
Preservative:	Cool	Date Analyzed:	06-12-02
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: **Llaves Land Farm Treatment Zone Cell 1.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 2 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22897	Date Sampled:	06-11-02
Chain of Custody:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Analyzed:	06-12-02
Preservative:	Cool	Date Extracted:	06-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**7.0**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**6.8**	**1.0**
Total BTEX	**13.8**	

ND - Parameter not detected at the stated detection limit.

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

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **'Llaves Land Farm Treatment Zone Cell 2.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 2 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22897	Date Sampled:	06-11-02
Chain of Custody No:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Extracted:	06-12-02
Preservative:	Cool	Date Analyzed:	06-12-02
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: **Llaves Land Farm Treatment Zone Cell 2.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 3 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22896	Date Sampled:	06-11-02
Chain of Custody:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Analyzed:	06-12-02
Preservative:	Cool	Date Extracted:	06-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**2.1**	**1.7**
Ethylbenzene	**9.9**	**1.5**
p,m-Xylene	**7.0**	**2.2**
o-Xylene	**8.9**	**1.0**
Total BTEX	**27.9**	

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: **'Llaves Land Farm Treatment Zone Cell 3.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 3 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22896	Date Sampled:	06-11-02
Chain of Custody No:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Extracted:	06-12-02
Preservative:	Cool	Date Analyzed:	06-12-02
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: **Llaves Land Farm Treatment Zone Cell 3.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 4 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22895	Date Sampled:	06-11-02
Chain of Custody:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Analyzed:	06-12-02
Preservative:	Cool	Date Extracted:	06-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**10.4**	**1.5**
p,m-Xylene	**29.1**	**2.2**
o-Xylene	**11.6**	**1.0**
Total BTEX	**51.1**	

ND - Parameter not detected at the stated detection limit.

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

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **'Llaves Land Farm Treatment Zone Cell 4.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell 4 (Treatment)	Date Reported:	06-12-02
Laboratory Number:	22895	Date Sampled:	06-11-02
Chain of Custody No:	8834	Date Received:	06-11-02
Sample Matrix:	Soil	Date Extracted:	06-12-02
Preservative:	Cool	Date Analyzed:	06-12-02
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: **Llaves Land Farm Treatment Zone Cell 4.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-12-TPH QA/QC	Date Reported:	06-12-02
Laboratory Number:	22894	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-12-02
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	**186**	**186**	**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	**186**	**250**	**435**	**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 22894 - 22898.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	06-12-BTEX QA/QC	Date Reported:	06-12-02
Laboratory Number:	22894	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-12-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	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	4.3	4.4	2.3%	0 - 30%	1.8
Toluene	3.2	3.2	0.0%	0 - 30%	1.7
Ethylbenzene	2.8	2.8	0.0%	0 - 30%	1.5
p,m-Xylene	15.0	15.0	0.0%	0 - 30%	2.2
o-Xylene	3.4	3.5	2.9%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	4.3	50.0	54.2	99.8%	39 - 150
Toluene	3.2	50.0	53.1	99.8%	46 - 148
Ethylbenzene	2.8	50.0	52.7	99.8%	32 - 160
p,m-Xylene	15.0	100	115	100.0%	46 - 148
o-Xylene	3.4	50.0	53.3	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 22894 - 22898.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

08834

Client / Project Name	Project Location
Benson-Martin-Greer (BMG)	LAVES Land Farm
Sampler: Patricia W. Sanchez	**Client No.** 99074-005

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH	BTEX					Remarks
Cell 4 (Closure)	6/11/02	10:34A	22894	Soil	2	1	1					Closure - Cell 4
Cell 4 (Treatment)	6/11/02	10:40A	22895	Soil	2	1	1					Treatment Zone Cell 4
Cell 3 (Treatment)	6/11/02	10:52A	22896	Soil	2	1	1					" Cell 3
Cell 2 (Treatment)	6/11/02	11:06A	22897	Soil	2	1	1					" Cell 2
Cell 1 (Treatment)	6/11/02	11:20A	22898	Soil	2	1	1					" Cell 1

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/11/02	3:15PM		6.11.02	15:15
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

MAIL RESULTS TO:
Benson-Martin-Greer Drilling Corp.
Attn. Pat Sanchez
4900 College Blvd.
Farmington NM 87402
Phone - 325-8874

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

Sample Receipt	Y	N	N/A
Received Intact	X		
Cool - Ice/Blue Ice	X		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

3rd q 2002

NMOCD - SANTA FE

ORIGINAL

September 30, 2002

Mr. Patricio Sanchez
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Sanchez,

Enclosed are the analytical results for the samples collected from the location designated as "Llaves Land Farm". Four soil samples were collected by Benson Montin Greer personnel on 9/25/02, and received by the Envirotech laboratory on 9/25/02 for TPH per USEPA 8015, BTEX per USEPA 8021, Anion / Cation and Total Metals RCRA list analysis.

The samples were documented on Envirotech Chain of Custody No. 9248 and assigned Laboratory Nos. 23887 (Cell #4), 23888 (Cell #3), 23889 (Cell #2) and 23890 (Cell #1) for tracking purposes.

The samples were analyzed on 9/27/02 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

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-27-02
Laboratory Number:	23887	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Extracted:	09-26-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitering.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-27-02
Laboratory Number:	23887	Date Sampled:	09-25-02
Chain of Custody No:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitoring.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-27-02
Laboratory Number:	23887	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Digested:	09-27-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	**0.002**	**0.001**	**5.0**
Barium	**2.83**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**0.001**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.001**	**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 Emmision Spectroscopy, SW-846, USEPA, December 1996.

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

Comments: **Llaves Landfarm Quarterly Treatment Zone Monitering - Annual Metals.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	09-30-02
Laboratory Number:	23887	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil Extract	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.84**	s.u.		
Conductivity @ 25° C	**169**	umhos/cm		
Total Dissolved Solids @ 180C	**86.0**	mg/L		
Total Dissolved Solids (Calc)	**84.7**	mg/L		
SAR	**3.0**	ratio		
Total Alkalinity as CaCO3	**29.2**	mg/L		
Total Hardness as CaCO3	**15.2**	mg/L		
Bicarbonate as HCO3	**29.2**	mg/L	0.48	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	**0.003**	mg/L	0.00	meq/L
Chloride	**14.4**	mg/L	0.41	meq/L
Fluoride	**<0.01**	mg/L	0.00	meq/L
Phosphate	**18.3**	mg/L	0.58	meq/L
Sulfate	**0.5**	mg/L	0.01	meq/L
Iron	**0.046**	mg/L	0.00	meq/L
Calcium	**6.08**	mg/L	0.30	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**0.5**	mg/L	0.01	meq/L
Sodium	**26.8**	mg/L	1.17	meq/L
Cations			1.48	meq/L
Anions			1.48	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: **Llaves Landfarm Annual Treatment Zone Monitoring.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-27-02
Laboratory Number:	23888	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Extracted:	09-26-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitering.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-27-02
Laboratory Number:	23888	Date Sampled:	09-25-02
Chain of Custody No:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitoring.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-27-02
Laboratory Number:	23888	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Digested:	09-27-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	**0.004**	**0.001**	**5.0**
Barium	**2.16**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**0.001**	**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 Emmision Spectroscopy, SW-846, USEPA, December 1996.

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

Comments: **Llaves Landfarm Quarterly Treatment Zone Monitering - Annual Metals.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	09-30-02
Laboratory Number:	23888	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil Extract	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**8.51**	s.u.		
Conductivity @ 25° C	**138**	umhos/cm		
Total Dissolved Solids @ 180C	**72.0**	mg/L		
Total Dissolved Solids (Calc)	**70.5**	mg/L		
SAR	**2.4**	ratio		
Total Alkalinity as CaCO3	**20.0**	mg/L		
Total Hardness as CaCO3	**14.4**	mg/L		
Bicarbonate as HCO3	**20.0**	mg/L	0.33	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	**1.1**	mg/L	0.02	meq/L
Nitrite Nitrogen	**0.005**	mg/L	0.00	meq/L
Chloride	**10.0**	mg/L	0.28	meq/L
Fluoride	**<0.01**	mg/L	0.00	meq/L
Phosphate	**17.6**	mg/L	0.56	meq/L
Sulfate	**2.1**	mg/L	0.04	meq/L
Iron	**0.058**	mg/L	0.00	meq/L
Calcium	**5.76**	mg/L	0.29	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**0.6**	mg/L	0.02	meq/L
Sodium	**21.2**	mg/L	0.92	meq/L
Cations			1.23	meq/L
Anions			1.23	meq/L
Cation/Anion Difference			**0.03%**	

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: **Llaves Landfarm Annual Treatment Zone Monitoring.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	09-27-02
Laboratory Number:	23889	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Extracted:	09-26-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitering.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	09-27-02
Laboratory Number:	23889	Date Sampled:	09-25-02
Chain of Custody No:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitoring.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	09-27-02
Laboratory Number:	23889	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Digested:	09-27-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	**0.002**	**0.001**	**5.0**
Barium	**3.22**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**0.002**	**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 Emmision Spectroscopy, SW-846, USEPA, December 1996.

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

Comments: **Llaves Landfarm Quarterly Treatment Zone Monitering - Annual Metals.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	09-30-02
Laboratory Number:	23889	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil Extract	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.96	s.u.		
Conductivity @ 25° C	184	umhos/cm		
Total Dissolved Solids @ 180C	96.0	mg/L		
Total Dissolved Solids (Calc)	94.4	mg/L		
SAR	1.7	ratio		
Total Alkalinity as CaCO3	21.2	mg/L		
Total Hardness as CaCO3	30.4	mg/L		
Bicarbonate as HCO3	21.2	mg/L	0.35	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	10.0	mg/L	0.16	meq/L
Nitrite Nitrogen	0.021	mg/L	0.00	meq/L
Chloride	11.2	mg/L	0.32	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	19.6	mg/L	0.62	meq/L
Sulfate	6.2	mg/L	0.13	meq/L
Iron	0.107	mg/L	0.00	meq/L
Calcium	12.2	mg/L	0.61	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.4	mg/L	0.01	meq/L
Sodium	22.0	mg/L	0.96	meq/L
Cations			1.58	meq/L
Anions			1.57	meq/L
Cation/Anion Difference			0.28%	

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: **Llaves Landfarm Annual Treatment Zone Monitoring.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-27-02
Laboratory Number:	23890	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Extracted:	09-26-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitering.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-27-02
Laboratory Number:	23890	Date Sampled:	09-25-02
Chain of Custody No:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
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: **Llaves Landfarm Quarterly Treatment Zone Monitoring.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-27-02
Laboratory Number:	23890	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil	Date Analyzed:	09-27-02
Preservative:	Cool	Date Digested:	09-27-02
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	**0.002**	**0.001**	**5.0**
Barium	**2.75**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.001**	**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 Emmision Spectroscopy, SW-846, USEPA, December 1996.

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

Comments: **Llaves Landfarm Quarterly Treatment Zone Monitering - Annual Metals.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Benson-Montin-Greer (BMG)	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	09-30-02
Laboratory Number:	23890	Date Sampled:	09-25-02
Chain of Custody:	09248	Date Received:	09-25-02
Sample Matrix:	Soil Extract	Date Extracted:	09-26-02
Preservative:	Cool	Date Analyzed:	09-27-02
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	8.59	s.u.		
Conductivity @ 25° C	137	umhos/cm		
Total Dissolved Solids @ 180C	64.2	mg/L		
Total Dissolved Solids (Calc)	57.9	mg/L		
SAR	2.6	ratio		
Total Alkalinity as CaCO3	14.0	mg/L		
Total Hardness as CaCO3	9.6	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	1.6	mg/L	0.03	meq/L
Nitrite Nitrogen	0.007	mg/L	0.00	meq/L
Chloride	17.2	mg/L	0.49	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	7.9	mg/L	0.25	meq/L
Sulfate	0.2	mg/L	0.00	meq/L
Iron	<0.001	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	0.5	mg/L	0.01	meq/L
Sodium	18.2	mg/L	0.79	meq/L
Cations			1.00	meq/L
Anions			0.99	meq/L
Cation/Anion Difference			0.18%	

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: **Llaves Landfarm Annual Treatment Zone Monitoring.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-27-TM QA/QC	Date Reported:	09-27-02
Laboratory Number:	23887	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	09-27-02
Condition:	N/A	Date Digested:	09-27-02

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Barium	ND	ND	0.001	2.83	2.81	0.7%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.001	0.001	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	0.002	0.501	99.8%	80% - 120%
Barium	0.500	2.83	3.30	99.1%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	ND	0.498	99.6%	80% - 120%
Lead	0.500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.001	0.500	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 Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 23887 - 23890.**

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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:	09-27-TPH QA/QC	Date Reported:	09-27-02
Laboratory Number:	23871	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-27-02
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 23871 - 23873, 23887 - 23890, 23894 - 23895.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-27-BTEX QA/QC	Date Reported:	09-27-02
Laboratory Number:	23871	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-27-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	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	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	99.6%	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 23871 - 23873, 23887 - 23890, 23894 - 23895.**

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CHAIN OF CUSTODY RECORD

09248

Benson-Martin-Greer (BMG)

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Qtrly Land Farm Samples	LIALES Land Farm	

Sampler:	Client No.
Patricio W. Sanchez	99074-005

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX 8021	TPH 8015M	Metals	Gen. Chem.			Remarks
												QTRLY Treatment Zone Monitoring BTEX, TPH, Annual Metals and General Chemistry.
Cell #4	9/25/02	12:15PM	23887	Soil	4	1	1	1	1			
Cell #3	9/25/02	12:35PM	23888	Soil	4	1	1	1	1			
Cell #2	9/25/02	12:35PM	23889	Soil	4	1	1	1	1			
Cell #1	9/25/02	12:45PM	23890	Soil	4	1	1	1	1			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/25/02	2:55PM		9-25-02	1455
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 1	Date Reported:	12-26-02
Laboratory Number:	24480	Date Sampled:	12-20-02
Chain of Custody:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Analyzed:	12-24-02
Preservative:	Cool	Date Extracted:	12-23-02
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	**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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 1	Date Reported:	12-26-02
Laboratory Number:	24480	Date Sampled:	12-20-02
Chain of Custody No:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Extracted:	12-23-02
Preservative:	Cool	Date Analyzed:	12-24-02
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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 2	Date Reported:	12-26-02
Laboratory Number:	24481	Date Sampled:	12-20-02
Chain of Custody:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Analyzed:	12-24-02
Preservative:	Cool	Date Extracted:	12-23-02
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	**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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 2	Date Reported:	12-26-02
Laboratory Number:	24481	Date Sampled:	12-20-02
Chain of Custody No:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Extracted:	12-23-02
Preservative:	Cool	Date Analyzed:	12-24-02
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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 3	Date Reported:	12-26-02
Laboratory Number:	24482	Date Sampled:	12-20-02
Chain of Custody:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Analyzed:	12-24-02
Preservative:	Cool	Date Extracted:	12-23-02
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	**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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 3	Date Reported:	12-26-02
Laboratory Number:	24482	Date Sampled:	12-20-02
Chain of Custody No:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Extracted:	12-23-02
Preservative:	Cool	Date Analyzed:	12-24-02
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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 4	Date Reported:	12-26-02
Laboratory Number:	24483	Date Sampled:	12-20-02
Chain of Custody:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Analyzed:	12-24-02
Preservative:	Cool	Date Extracted:	12-23-02
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	**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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson - Montin - Greer	Project #:	99074-005
Sample ID:	Cell 4	Date Reported:	12-26-02
Laboratory Number:	24483	Date Sampled:	12-20-02
Chain of Custody No:	10515	Date Received:	12-20-02
Sample Matrix:	Soil	Date Extracted:	12-23-02
Preservative:	Cool	Date Analyzed:	12-24-02
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: **Llaves Landfarm.**
4th Quarter 2002 Background Sample, 24" - 36" Below Treatment Zone.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-24-BTEX QA/QC	Date Reported:	12-26-02
Laboratory Number:	24479	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-24-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	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	ND	ND	0.0%	0 - 30%	1.8
Toluene	19.8	19.4	2.0%	0 - 30%	1.7
Ethylbenzene	49.3	48.3	2.0%	0 - 30%	1.5
p,m-Xylene	462	454	1.7%	0 - 30%	2.2
o-Xylene	194	191	1.7%	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	19.8	50.0	69.7	99.9%	46 - 148
Ethylbenzene	49.3	50.0	99.2	99.9%	32 - 160
p,m-Xylene	462	100	562	100.0%	46 - 148
o-Xylene	194	50.0	244	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 24479 - 24483.**

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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:	12-24-TPH QA/QC	Date Reported:	12-26-02
Laboratory Number:	24479	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-24-02
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	**4.3**	**4.3**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**131**	**131**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**4.3**	**250**	**253**	**99.4%**	**75 - 125%**
Diesel Range C10 - C28	**131**	**250**	**380**	**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 24479 - 24483.**

Analyst

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10515

CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location		ANALYSIS / PARAMETERS								
BENSON - MONTIN - GREER			LLAVES LANDFARM										
Sampler: COOPER			Client No. 99074 - 005		No. of Containers	BTEX 8021	TPH 8015						Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
Cell 1	12/20/02	10:45	24480	Soil	1	✓	✓						4th Quarter 2002
Cell 2	12/20/02	11:20	24481	|	1	✓	✓						Background
Cell 3	12/20/02	10:10	24482	|	1	✓	✓						Samples
Cell 4	12/20/02	12:30	24483	|	1	✓	✓						24"-36" below
			~~[illegible]~~										treatment zone

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
John Cooper	12/20/02	1450	[signature]	12/20/02	1450
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Attachment II

2002 Monthly Inspection of Evap. Pond Leak Detection System

BENSON-MONTIN-GREER DRILLING CORP.
NW/4 SECTION 20, T25N, R1E, NMPM, Rio Arriba County, NM
Permit NM-02-0004
Monthly Evaporation Impoundment Monitor Tube Fluid Levels.

For Calendar Year January 02 to December 02

Date	Monitor Reading Taken by:	Level (Inches)	Change in fluid level from prior Month (Inches)
Jan- 3/02	Ben L Gonzales	4"	-1
Feb- 6/02	Ben L Gonzales	2"	-2
Mar- 8/02	Ben L Gonzales	2"	0
Apr- 3/02	Ben L Gonzales	2"	0
May- 3/02	Ben L Gonzales	2"	0
Jun- 4/02	Ben L Gonzales	2"	0
Jul- 3/02	Ben L Gonzales	2"	0
Aug- 5/02	Ben L Gonzales	1"	-1
Sep- 4/02	Ben L Gonzales	1"	0
Oct- 4/02	Ben L Gonzales	1"	0
Nov- 5/02	Ben L Gonzales	1"	0
Dec- 4/02	Ben L Gonzales	1"	0

BMG

BENSON-MONTIN-GREER DRILLING CORP.

February 21, 2002 **Certified Mail No. 7000-0520-022-5029-1342**

Ms. Martyne J. Kieling
NMOCD
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: Annual Report for Benson-Montin-Greer Drilling Corp. (BMG) Centralized Surface Waste Management Facility (Permit No. NM-02-0004) located in NW/4 of Section 20, Township 25 North, Range 1 East, NMPM, Rio Arriba County, New Mexico.

Dear Ms. Kieling,

BMG submits the following Annual report on the above listed facility as required by the permit listed above – page 6 of 8 "Reporting and Record Keeping." The report is to be submitted by March 1, 2002 as required by the permit.

1. Attachment I is treatment zone monitoring.

2. Attachment II is Monthly Inspection of leak detection system.

3. There are no below grade sumps to monitor. The sludge in the pond is a creamy looking substance that appears to be in suspension in the lower portion of the pond – and can therefore not be measured practically. If BMG has to remove sludge from the pond to continue operation we will notify NMOCD in advance so that disposal of this substance can be approved.

4. We have not had any spills of record at the facility in the last year.

5. BMG continues to maintain records at the facility with internal forms we have previously submitted for NMOCD's reference.

6. We have not installed any new structures – however I refer to your request for additional information dated September 12, 2000 – it was in reference to BMG modification requests dated May 10, 2000 and June 19, 2000 – we have decided that due to the large amount of soils that are currently being handled by the facility caused by two large crude oil pipeline spills that occurred last year that it is best to monitor the treatment zones as outlined in the permit

4900 College Boulevard, Farmington, NM 87402 (505) 325-8874 Fax (505) 327-9207

dated February 2,1999 from NMOCD. We request that our modification be approved and a new permit that replaces the existing permit be issued.

Note: We still are in hopes of obtaining a closure sample during the second quarter tests on the east-end of the runway treatment cell - we have ceased a spreading of soils on this cell.

Should your have any questions or require additional information you may contact Pat Sanchez at the letterhead address and telephone number.

Sincerely

Albert R. Greer
President, BMG Drilling Corp.

C Mr. Denny Foust – NMOCD Aztec w/ attachments, MRD, PWS, Ben Gonzales, Royce Meeks w/o attachments, BMG surface waste management file.

ATTACHMENT I

QUARTERLY TREATMENT ZONE SAMPLES

2001

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

NMOCD-
SANTA FE
4th QTR

December 6, 2001 DEC 07 2001

Mr. Pat Sanchez
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Sanchez,

Enclosed are the analytical results for the samples collected from the location designated as "BMG LIAVES Land Farm". Eight soil samples were collected by Benson Montin Greer personnel on 12/03/01, and received by the Envirotech laboratory on 12/03/01 for TPH per USEPA 8015 and BTEX per USEPA 8021.

The samples were documented on Envirotech Chain of Custody No. 9247 and assigned Laboratory Nos. 21636 (Cell #1 (A)), 21637 (Cell #1 (B)), 21638 (Cell #2 (A)), 21639 (Cell #2 (B)), 21640 (Cell #3 (A)), 21641 (Cell #3 (B)), 21642 (Cell #4 (A)) and 21643 (Cell #4 (B)) for tracking purposes.

The samples were analyzed 12/05/01 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

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw C:/files/labreports/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1 (A)	Date Reported:	12-05-01
Laboratory Number:	21636	Date Sampled:	12-03-01
Chain of Custody:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Analyzed:	12-05-01
Preservative:	Cool	Date Extracted:	12-04-01
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: **BMG Llaves Land Farm Treatment Zone Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2 (A)	Date Reported:	12-05-01
Laboratory Number:	21638	Date Sampled:	12-03-01
Chain of Custody:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Analyzed:	12-05-01
Preservative:	Cool	Date Extracted:	12-04-01
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	**33.9**	**2.2**
o-Xylene	**10.6**	**1.0**
Total BTEX	**44.5**	

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: **BMG Llaves Land Farm Treatment Zone Sample.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3 (A)	Date Reported:	12-05-01
Laboratory Number:	21640	Date Sampled:	12-03-01
Chain of Custody:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Analyzed:	12-05-01
Preservative:	Cool	Date Extracted:	12-04-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**4.2**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**2.9**	**2.2**
o-Xylene	**3.0**	**1.0**
Total BTEX	**10.1**	

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: **BMG Llaves Land Farm Treatment Zone Sample.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4 (A)	Date Reported:	12-05-01
Laboratory Number:	21642	Date Sampled:	12-03-01
Chain of Custody:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Analyzed:	12-05-01
Preservative:	Cool	Date Extracted:	12-04-01
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: **BMG Llaves Land Farm Treatment Zone Sample.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-05-BTEX QA/QC	Date Reported:	12-05-01
Laboratory Number:	21636	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-05-01
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.7143E-001	1.7195E-001	0.3%	ND	0.2
Toluene	9.4693E-002	9.4883E-002	0.2%	ND	0.2
Ethylbenzene	1.2284E-001	1.2321E-001	0.3%	ND	0.2
p,m-Xylene	1.0810E-001	1.0843E-001	0.3%	ND	0.2
o-Xylene	9.2106E-002	9.2290E-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	50.0	100.0%	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	100	100.0%	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 21636, 21638, 21640, 21642, 21646 - 21449.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1 (B)	Date Reported:	12-05-01
Laboratory Number:	21637	Date Sampled:	12-03-01
Chain of Custody No:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Extracted:	12-04-01
Preservative:	Cool	Date Analyzed:	12-05-01
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: **BMG Llaves Land Farm Treatment Zone Sample.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2 (B)	Date Reported:	12-05-01
Laboratory Number:	21639	Date Sampled:	12-03-01
Chain of Custody No:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Extracted:	12-04-01
Preservative:	Cool	Date Analyzed:	12-05-01
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: **BMG Llaves Land Farm Treatment Zone Sample.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3 (B)	Date Reported:	12-05-01
Laboratory Number:	21641	Date Sampled:	12-03-01
Chain of Custody No:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Extracted:	12-04-01
Preservative:	Cool	Date Analyzed:	12-05-01
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: **BMG Llaves Land Farm Treatment Zone Sample.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4 (B)	Date Reported:	12-05-01
Laboratory Number:	21643	Date Sampled:	12-03-01
Chain of Custody No:	9247	Date Received:	12-03-01
Sample Matrix:	Soil	Date Extracted:	12-04-01
Preservative:	Cool	Date Analyzed:	12-05-01
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: **BMG Llaves Land Farm Treatment Zone Sample.**

Analyst

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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:	12-05-TPH QA/QC	Date Reported:	12-05-01
Laboratory Number:	21637	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-05-01
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	08-22-01	1.2571E-002	1.2559E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	08-22-01	8.3733E-003	8.3565E-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 21637, 21639, 21641, 21643, 21647 - 21649.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN OF CUSTODY RECORD

09247

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Benson-Montin-Greer	BMG LIAVES Land Farm	
Sampler: Patricio W. Sanchez	Client No. 99074-005	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8021 BTEX	8015-M TPH					Remarks
												Treatment Zone Samples.
Cell #1 (A)	12/3/01	12:01PM	21636	Soil	1	✓						
Cell #1 (B)	12/3/01	12:03PM	21637	Soil	1		✓					
Cell #2 (A)	12/3/01	11:54AM	21638	Soil	1	✓						
Cell #2 (B)	12/3/01	11:55AM	21639	Soil	1		✓					
Cell #3 (A)	12/3/01	11:45AM	21640	Soil	1	✓						
Cell #3 (B)	12/3/01	11:46AM	21641	Soil	1		✓					
Cell #4 (A)	12/3/01	11:28AM	21642	Soil	1	✓						
Cell #4 (B)	12/3/01	11:30AM	21643	Soil	1		✓					

	Date	Time		Date	Time
Relinquished by: (Signature)	12/3/01	3:57PM	Received by: (Signature)	12/03/01	15:57
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

PINNACLE LABORATORIES

NMOCD - SANTA FE

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

3-2 RTA

Pinnacle Lab ID number **109103**
October 18, 2001

AMEC EARTH & ENVIRONMENTAL
2060 AFTON PLACE
FARMINGTON, NM 87401

Project Name BMG-09
Project Number 1517000082

Attention: DON FERNALD

On 09/27/01 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
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Fax (505) 344-4413

CLIENT	: AMEC EARTH & ENVIRONMENTAL	PINNACLE ID	: 109103
PROJECT #	: 1517000082	DATE RECEIVED	: 09/27/01
PROJECT NAME	: BMG-09	REPORT DATE	: 10/18/01

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
109103 - 01	82-CELL 1	NON-AQ	09/19/01
109103 - 02	82-CELL 2	NON-AQ	09/19/01
109103 - 03	82-CELL 3	NON-AQ	09/19/01
109103 - 04	82-CELL 4	NON-AQ	09/19/01

PINNACLE LABORATORIES

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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : AMEC EARTH & ENVIRONMENTAL PINNACLE I.D.: 109103
PROJECT # : 1517000082
PROJECT NAME : BMG-09

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	82-CELL 1	NON-AQ	09/19/01	10/01/01	10/02/01	1
02	82-CELL 2	NON-AQ	09/19/01	10/01/01	10/02/01	1
03	82-CELL 3	NON-AQ	09/19/01	10/01/01	10/02/01	1

PARAMETER	DET. LIMIT	UNITS	82-CELL 1	82-CELL 2	82-CELL 3
BENZENE	0.025	**MG/KG**	< 0.025	**0.033**	< 0.025
TOLUENE	0.025	**MG/KG**	**0.035**	**0.027**	< 0.025
ETHYLBENZENE	0.025	MG/KG	< 0.025	< 0.025	< 0.025
TOTAL XYLENES	0.025	**MG/KG**	< 0.025	**0.038**	< 0.025
METHYL-t-BUTYL ETHER	0.13	MG/KG	< 0.13	< 0.13	< 0.13
SURROGATE:					
BROMOFLUOROBENZENE (%)			91	85	89
SURROGATE LIMITS	(65 - 120)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : AMEC EARTH & ENVIRONMENTAL PINNACLE I.D.: 109103
PROJECT # : 1517000082
PROJECT NAME : BMG-09

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	82-CELL 4	NON-AQ	09/19/01	10/01/01	10/02/01	1

PARAMETER	DET. LIMIT	UNITS	82-CELL 4
BENZENE	0.025	MG/KG	< 0.025
TOLUENE	0.025	MG/KG	< 0.025
ETHYLBENZENE	0.025	MG/KG	< 0.025
TOTAL XYLENES	0.025	MG/KG	< 0.025
METHYL-t-BUTYL ETHER	0.13	MG/KG	< 0.13

SURROGATE:
BROMOFLUOROBENZENE (%) 94
SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 109103
BLANK I. D.	: 100101	DATE EXTRACTED	: 10/01/01
CLIENT	: AMEC EARTH & ENVIRONMENTAL	DATE ANALYZED	: 10/02/01
PROJECT #	: 1517000082	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: BMG-09		

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13

SURROGATE:
BROMOFLUOROBENZENE (%) 96
SURROGATE LIMITS: (80 - 120)
CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: EPA 8021 MODIFIED		
MSMSD #	: 109103-01	PINNACLE I.D.	: 109103
CLIENT	: AMEC EARTH & ENVIRONMENTAL	DATE EXTRACTED	: 10/01/01
PROJECT #	: 1517000082	DATE ANALYZED	: 10/02/01
PROJECT NAME	: BMG-09	SAMPLE MATRIX	: NON-AQ
		UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.10	110	1.10	110	0	(68 - 120)	20
TOLUENE	0.035	1.00	0.98	95	0.98	95	0	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	0.96	96	0.97	97	1	(49 - 127)	20
TOTAL XYLENES	<0.025	3.00	2.88	96	2.92	97	1	(58 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

PINNACLE LABORATORIES

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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : AMEC EARTH & ENVIRONMENTAL PINNACLE I.D.: 109103
PROJECT # : 1517000082
PROJECT NAME : BMG-09

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	82-CELL 1	NON-AQ	09/19/01	09/29/01	09/30/01	1
02	82-CELL 2	NON-AQ	09/19/01	09/29/01	09/30/01	1
03	82-CELL 3	NON-AQ	09/19/01	09/29/01	09/30/01	1

PARAMETER	DET. LIMIT	UNITS	82-CELL 1	82-CELL 2	82-CELL 3
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	10	**MG/KG**	**39**	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	**MG/KG**	**49**	< 10	< 10
CALCULATED SUM:			**88**		
SURROGATE:					
O-TERPHENYL (%)			93	93	93
SURROGATE LIMITS	(66 - 151)				

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : AMEC EARTH & ENVIRONMENTAL PINNACLE I.D.: 109103
PROJECT # : 1517000082
PROJECT NAME : BMG-09

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	82-CELL 4	NON-AQ	09/19/01	09/29/01	09/30/01	1

PARAMETER	DET. LIMIT	UNITS	82-CELL 4
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10
CALCULATED SUM:			
SURROGATE:			
O-TERPHENYL (%)			92
SURROGATE LIMITS	(66 - 151)		

CHEMIST NOTES:
N/A

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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)		
BLANK I.D.	: 092901	PINNACLE I.D.	: 109103
CLIENT	: AMEC EARTH & ENVIRONMENTAL	DATE EXTRACTED	: 09/29/01
PROJECT #	: 1517000082	DATE ANALYZED	: 09/29/01
PROJECT NAME	: BMG-09	SAMPLE MATRIX	: NON-AQ

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:		
O-TERPHENYL (%)		84
SURROGATE LIMITS	(80 - 151)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

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Albuquerque, New Mexico 87107
Phone (505) 344-3777
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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)		
MSMSD #	: 109103-03	PINNACLE I.D.	: 109103
CLIENT	: AMEC EARTH & ENVIRONMENTAL	DATE EXTRACTED	: 09/29/01
PROJECT #	: 1517000082	DATE ANALYZED	: 09/30/01
PROJECT NAME	: BMG-09	SAMPLE MATRIX	: NON-AQ
		UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	216	108	216	108	0	(56 - 148)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C1-09727
Received: 29 SEP 01
Reported: 15 OCT 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Requisition: 109103

Project: 109103, AMEC-BMG-09
Sampled By: Client
Code: 090211015

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
09727-1	82-CELL 1/109103-01	09-19-01/11:10
09727-2	82-CELL 2/109103-02	09-19-01/11:35
09727-3	82-CELL 3/109103-03	09-19-01/12:00
09727-4	82-CELL 4/109103-04	09-19-01/12:25

PARAMETER	09727-1	09727-2	09727-3	09727-4
Fluoride (340.2-EXT), mg/kg dw	<4.6	<4.4	<4.3	<4.2
Dilution Factor	20	20	20	20
Analysis Date	10.10.01	10.10.01	10.10.01	10.10.01
Batch ID	FLS002	FLS002	FLS002	FLS002
Analyst	WG	WG	WG	WG
Chloride (325.2/SM4500E/9251)	1300	1200	360	1900
Dilution Factor	250	50	50	100
Prep Date	10.03.01	10.03.01	10.03.01	10.03.01
Analysis Date	10.04.01	10.04.01	10.04.01	10.04.01
Batch ID	CKS555	CKS555	CKS555	CKS555
Prep Method	SOP885	SOP885	SOP885	SOP885
Analyst	CR	CR	CR	CR
Sulfate as SO4 (375.4-EXT), mg/kg dw	<400	<400	<200	<400
Dilution Factor	80	80	40	80
Prep Date	10.05.01	10.05.01	10.05.01	10.05.01
Analysis Date	10.08.01	10.08.01	10.08.01	10.08.01
Batch ID	SWS007	SWS007	SWS007	SWS007
Prep Method	375.4	375.4	375.4	375.4
Analyst	BE	BE	BE	BE

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C1-09727
Received: 29 SEP 01
Reported: 15 OCT 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Requisition: 109103

Project: 109103, AMEC-BMG-09
Sampled By: Client
Code: 090211015

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/TIME SAMPLED
09727-1	82-CELL 1/109103-01	09-19-01/11:10
09727-2	82-CELL 2/109103-02	09-19-01/11:35
09727-3	82-CELL 3/109103-03	09-19-01/12:00
09727-4	82-CELL 4/109103-04	09-19-01/12:25

PARAMETER	09727-1	09727-2	09727-3	09727-4
pH (9045C), units	6.8	7.7	7.9	7.7
Dilution Factor	1	1	1	1
Prep Date	09.29.01	09.29.01	09.29.01	09.29.01
Analysis Date	09.29.01	09.29.01	09.29.01	09.29.01
Batch ID	PHX179	PHX179	PHX179	PHX179
Prep Method	9045C	9045C	9045C	9045C
Analyst	BH	BH	BH	BH
Metals (6010B)				
Calcium, mg/kg dw	5600	3300	3600	1600
Magnesium, mg/kg dw	3600	1800	1700	1500
Potassium, mg/kg dw	3000	1100	1500	1400
Sodium, mg/kg dw	<89	<81	<96	<89
Dilution Factor	1	1	1	1
Prep Date	10.03.01	10.03.01	10.03.01	10.03.01
Analysis Date	10.04.01	10.04.01	10.04.01	10.04.01
Batch ID	PS218	PS218	PS218	PS218
Prep Method	3050B	3050B	3050B	3050B
Analyst	GSP	GSP	GSP	GSP
Percent Solids	87	91	93	94

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C1-09727
Received: 29 SEP 01
Reported: 15 OCT 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Requisition: 109103

Project: 109103, AMEC-BMG-09
Sampled By: Client
Code: 090211015

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
09727-5	Method Blank	
09727-6	Lab Control Standard % Recovery	
09727-7	Matrix Spike % Recovery	
09727-8	Matrix Spike Duplicate % Recovery	

PARAMETER	09727-5	09727-6	09727-7	09727-8
Fluoride (340.2-EXT), mg/kg dw	<0.20	92 %	96 %	99 %
Dilution Factor	1	---	---	---
Analysis Date	10.10.01	---	---	---
Batch ID	FLS002	FLS002	FLS002	FLS002
Analyst	WG	---	---	---
Chloride (325.2/SM4500E/9251), 1	<2.0	100 %	126 %	126 %
Prep Date	10.03.01	---	---	---
Analysis Date	10.04.01	---	---	---
Batch ID	CKS555	CKS555	CKS555	CKS555
Prep Method	SOP885	---	---	---
Analyst	CR	---	---	---
Sulfate as SO4 (375.4-EXT), mg/kg dw	<5.0	92 %	115 %	128 %
Dilution Factor	1	---	---	---
Prep Date	10.05.01	---	---	---
Analysis Date	10.08.01	---	---	---
Batch ID	SWS007	SWS007	SWS007	SWS007
Prep Method	375.4	---	---	---
Analyst	BE	---	---	---
pH (9045C), units	N/A	N/A	N/A	N/A

SEVERN TRENT SERVICES

STL Pensacola

LOG NO: C1-09727
Received: 29 SEP 01
Reported: 15 OCT 01

Ms. Jacinta Tenorio
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Requisition: 109103

Project: 109103, AMEC-BMG-09
Sampled By: Client
Code: 090211015

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
09727-5	Method Blank	
09727-6	Lab Control Standard % Recovery	
09727-7	Matrix Spike % Recovery	
09727-8	Matrix Spike Duplicate % Recovery	

PARAMETER	09727-5	09727-6	09727-7	09727-8

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
See the Project Sample Inspection Form (PSIF) to determine if a sample was received that did not meet EPA requirements for sample collection, preservation, or holding time.

Lance Larson, Project Manager

Final Page Of Report

SEVERN TRENT SERVICES

STL Pensacola

Data Qualifiers for Final Report

B1	The analyte was detected in the associated method blank (sample itself is flagged even though sample is ND).
B2	The analyte was detected in the sample(s) and in the associated method blank analyzed on the day samples were extruded; however, this analyte was not detected in the blank analyzed with the samples.
B3	The analyte was found in the associated blank as well as in the associated sample(s) (qualifier is applied to the sample, not to the blank).
B4	Sample results were corrected due to contaminants in Fractionation Blank
D	Diluted out (surrogate or spike due to sample dilution)
E	Compound concentration exceeds the upper calibration range of the instrument.
F	The reported value is < STL Pensacola RL and ≥ the STL Pensacola MDL; therefore, the quantitation is estimation.
G	Sample and/or duplicate result is at or below 5 X (times) the STL Reporting Limit and the absolute difference between the sample and duplicate result is at or below the STL reporting limit; therefore, the results are "in control".
H1	Sample and/or duplicate is below 5 X (times) the STL Reporting Limit and the absolute difference between the results exceeds the STL Reporting Limit; therefore, the results are "out of control"
H2	Sample and duplicate (or MS and MSD) RPD is above control limit.
J (description)	The analyte was positively identified, the quantitation may be an estimation
J4	(For positive results)Temperature limits exceeded (≤2°C or ≥ 6°C), non-reportable for NDPES compliance monitoring.
J6	(For positive results) LCS or Surrogate %R is > upper control limit (UCL), results may be biased high
J8	Matrix spike and post spike recoveries are outside control limits. See out of Control Events/Corrective Action Form.
J9	(For positive results) LCS or Surrogate %R is < lower control limit (LCL), results may be biased low
M1	A matrix effect was present ([1]sample, MS or MSD was analyzed twice to confirm surrogate/spike failure, [2]sample and/or MS/MSD chromatogram(s) had interfering peaks, [3]sample result was > 4 X spike added, [4]metals serial dilution was performed, or [5]metals post spike is < 40% R)
M2	The MS and/or MSD %R or RPD was outside upper or lower control limits; not necessarily due to matrix effect.
N/C	Not Calculable; Sample spiked is > 4X spike concentration (may also use this flag in place of negative numbers)
NH	Sample and duplicate results are "out of control". The sample is nonhomogeneous.
NoMS	Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD).
Q	The analytical (post digestion) spike is reported due to the percent recovery being outside limits on the matrix (pre-digestion) spike.
R (description)	The quantitation may be an estimation.
R1	(For nondetects) Temperature limits exceeded (≤2°C or ≥ 6°C); non-reportable for NDPES compliance monitoring
R2	Improper preservation, no preservative present or insufficient amounts of preservative in sample upon receipt, non-reportable for NDPES compliance monitoring
R3	Improper preservation, incorrect preservative present in sample upon receipt, non-reportable for NPDES compliance
R4	Holding time exceeded, non-reportable for NDPES compliance monitoring.
R5	Sample collection requirements not met, see case narrative.
R6	LCS or surrogate %R is < LCL and analyte is not detected or surrogate %R is < 10% for detects/nondetects.
R7	Internal standard area outside –50% to +100% of calibration verification standard.
R8	Initial calibration or any calibration verification exceeds acceptance criteria.
R9	Not filtered and preserved at time of collection.
R10	Headspace >1/4" in diameter in volatile vials, non-reportable for NPDES compliance monitoring
R11	Samples were filtered and preserved within 4 hours of collection.
R12	Analysis performed outside the 12-hour tune or not within tune criteria.
S1	The Method of Standard Additions (MSA) has been performed on this sample.
S2	Incorrect sample amount was submitted to the laboratory for analysis
S3 (Flashpoint)	This method is not designed for solids and the results may not be accepted by any regulator for such purposes.
T	Second-column or detector confirmation exceeded the SW-846 criteria of 40% RPD for this compound.
TIC	The compound is not within the initial calibration curve. It is searched for qualitatively or as a Tentatively Identified Compound.
U	The analyte was analyzed for but not detected (at or above the RL or the MDL, whichever is entered next to the "U" value. Value for result will never be below the MDL)
W	Post-digestion spike for Furnace AA is out of control limits (85-115%), while sample absorbance is less than 50% spike absorbance.
@	Adjusted reporting limit due to sample composition, not due to overcal (dilution prior to digestion and/or analysis).
#	Elevated reporting limit due to insufficient sample size
1 pt	The compound has been quantitated against a one point calibration.
* (Metals & Wet Chem)	Elevated reporting limit due to matrix interference (dilution prior to digestion and/or analysis)

Revised: 06/19/01

STL PENSACOLA
State Certifications

Alabama Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL), expires 06/30/02

Arizona Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater), expires 01/12/02

Arkansas Department of Pollution Control and Ecology, (No Laboratory ID No. assigned by state) (Environmental), expires 02/07/02

*State of **California**, Department of Health Services, Laboratory ID No. 01128CA (Hazardous Waste and Wastewater), expires 03/31/02*

*State of **Connecticut**, Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater), expires 09/30/01*

Delaware Health & Social Services, Division of Public Health, Laboratory ID No. FL094 (Drinking Water by Reciprocity with FL) Extension granted

Florida DOH Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater), expires 06/30/02

Florida DEP/DOH CompQAP # 980156

Florida, Radioactive Materials License No. G0733-1, no expiration date assigned

Foreign Soil Permit, Permit No. S-37599

Kansas Department of Health & Environment, Laboratory ID No. E10253 (Wastewater and Hazardous Waste), expires 10/31/01

*Commonwealth of **Kentucky**, Natural Resources and Environmental Protection Cabinet, Laboratory ID No. 90043 (Drinking Water), expires 12/31/01*

*State of **Louisiana**, DHH, Office of Public Health Division of Laboratories, Laboratory ID No. LA000017 (Drinking Water), expires 12/31/01*

Louisiana Department of Environmental Quality, LELAP, Laboratory ID No. 02075, Agency Interest ID 30748 (Environmental, expires 6/30/02)

*State of **Maryland**, DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida), expires 09/30/02*

*Commonwealth of **Massachusetts**, DEP, Laboratory ID No. M-FL094 (Wastewater), expires 06/30/02*

*State of **Michigan**, Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida), expires 06/30/02*

*New **Hampshire** DES ELAP, Laboratory ID No. 250501 (Wastewater), expires 08/16/02*

*State of New **Jersey**, Department of Env. Protection & Energy, Laboratory ID No. 49006 (Wastewater and Hazardous Waster), expires 06/30/01*

*New **York** State, Department of Health, Laboratory ID No. 11503 (WW and Solids/Hazardous Waste), expires 03/31/02*

*North **Carolina** Department of Environment & Natural Resources, Laboratory ID No. 314 (Hazardous Waste and Wastewater), expires 12/31/01*

*North **Dakota** DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Florida), expires 06/30/02*

*State of **Oklahoma**, Oklahoma Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater), expires 08/31/02*

*Commonwealth of **Pennsylvania**, Department of Environmental Resources, Laboratory ID No. 68-467 (Drinking Water), expires 12/01/01*

*South **Carolina** DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL), expires 06/30/02*

Tennessee Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water), expires 08/03/04

Virginia Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL), expires 06/30/02

*State of **Washington**, Department of Ecology, Laboratory ID No. C282 (Hazardous Waste and Wastewater), expires 09/14/01*

West Virginia Division of Env., Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater Reciprocity FL), expires 12/31/01

*American Industrial Hygiene Association (**AIHA**) Accredited Laboratory, Laboratory ID No. 100704, expires 04/01/04*

STL Pensacola
PROJECT SAMPLE INSPECTION FORM

SEVERN TRENT SERVICES

Lab Order #: C109727 Date Received: 9.29.01

1.	Was there a Chain of Custody?	(Yes)	No♣		8.	Were samples checked for preservative? *(Check pH of all H_2O requiring preservative (STL-PN SOP 917) except VOA vials that require zero headspace)*+	Yes	No♣	(N/A)
2.	Was Chain of Custody properly filled out and relinquished?	(Yes)	No♣		9.	Is there sufficient volume for analysis requested?	(Yes)	No♣	N/A *(Can)*
3.	Were samples received cold? (Criteria: 2° - 6°C: STL-SOP	(Yes)	No♣	N/A	10.	Were samples received within Holding Time? (REFER TO STL-SOP 1040)	(Yes)	No♣	
4.	Were all samples properly labeled and identified?	(Yes)	No♣		11.	Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section.	Yes♣	No	(N/A)
5.	Did samples require splitting or compositing♦? Req By: PM Client Other♦	Yes♣	(No)		12.	If sent, were matrix spike bottles returned?	Yes	No♣	(N/A)
6.	Were samples received in proper containers for analysis requested?	(Yes)	No♣		13.	Was Project Manager notified of problems? (initials:_____)	Yes	No♣	(N/A)
7.	Were all sample containers received intact?	(Yes)	No♣						

Airbill Number(s): 12 878 168 44 4401 6700

Shipped By: UPS

Cooler Number(s): client

Shipping Charges: N/A

Cooler Weight(s): 30#

Cooler Temp(s) (°C): 2° (CCK3)

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS) ☞

Inspected By: DMH **Date:** 9.29.01 **Logged By:** DAG **Date:** 9/29/01

♣ *Note all Out-of-Control and/or questionable events on Comment Section of this form. For holding times, the analytical department will flag immediate hold time samples(pH, Dissolved O_2, Residual CL) as out of hold time, therefore, these samples will not be documented on this PSIF.*

♦ *If Other, note who requested the splitting or compositing of samples on the Comment Section of this form. All volatile samples requested to be split or composited must be done in the Volatile Lab. Document: "Volatile sample values may be compromised due to sample splitting (compositing)"*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (STL-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, STL makes it policy to record any headspace as out-of-control (STL-SOP 938, section 2.2.12).*

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 9/28 Page: 1 of 1

Network Project Manager: Jacinta A. Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C109727

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)	Ca, K, Mg, Na	TOX	TOC	Gen Chemistry: F, Cl, SO4, pH	Conductivity	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE		Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
82-CELL 1/109103-01	9/19	1110	NAQ	1					X			X	X														
82-CELL 2/109103-02	↓	1135	↓	2					X			X	X														
82-CELL 3/109103-03		1200		3					X			X	X														
82-CELL 4/109103-04		1225		4					X			X	X														

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT #:	109103	Total Number of Containers	
PROJ. NAME:	AMEC	Chain of Custody Seals	
QC LEVEL:	STD IV	Received Intact?	
QC REQUIRED:	MS MSD BLANK	Received Good Cond./Cold	
TAT:	STANDARD RUSH!!	LAB NUMBER:	

SAMPLES SENT TO:	
PENSACOLA - STL-FL	X
ESL - OR	
STL - CT	
ATEL - AZ	
ATEL - MARION	
ATEL - MELMORE	
BARRINGER	
ENVIRO TEST LABS	
WCAS	
WOHL	

RELINQUISED BY: 1	RELINQUISED BY: 2
Signature: Francine Tenorio Time: 1700	Signature: Time:
Printed Name: Francine Tenorio Date: 9/28/01	Printed Name: Date:
Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1	**RECEIVED BY: 2**
Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:
Company STL-DUS	Company

DUE DATE: 10/11
RUSH SURCHARGE: —
CLIENT DISCOUNT: —
SPECIAL CERTIFICATION REQUIRED: YES (NO)

COMMENTS:

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 9/26/01 PAGE: 1 OF 1

PLI Accession #: 109103 *

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Don Fernald

COMPANY: AMEC Earth & Enviro
ADDRESS: 2060 Afton Pl
Farmington, NM 87401
PHONE: 505 327-7928
FAX: 505 326-5721

BILL TO:
COMPANY: Same
ADDRESS:

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	8015/8020 DRO	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	Major ions / Metals *	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
82-Cell 1	9/19/01	11:10	Soil	01			X									X																4
82-Cell 2	9/19/01	11:35	Soil	02			X									X																4
82-Cell 3	9/19/01	12:00	Soil	03			X									X																4
82-Cell 4	9/19/01	12:25	Soil	04			X									X																4

PROJECT INFORMATION

PROJ. NO.: 151700082
PROJ. NAME: BMG - 09
P.O. NO.: 1517000082
SHIPPED VIA: Greyhound

SAMPLE RECEIPT

NO. CONTAINERS	16
CUSTODY SEALS	Y / N / (NA)
RECEIVED INTACT	Yes
BLUE ICE / ICE	4.0 C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐
* F, Cl, SO4, pH, EC, Ca, Mg, K, Na

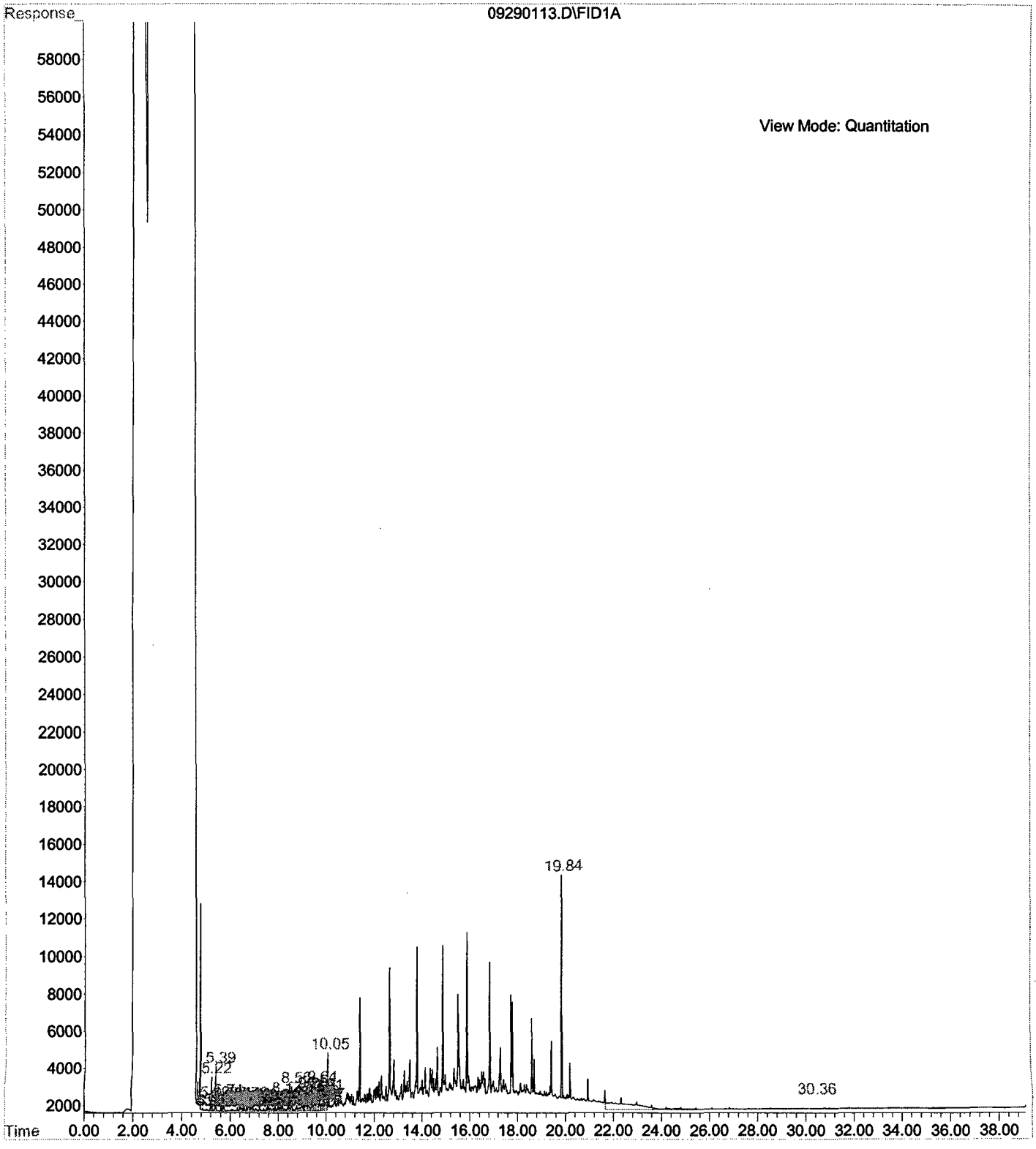
RELINQUISHED BY: 1.
Signature: [signature] Time: 14:00
Printed Name: Don Fernald Date: 9/26/01
Company: AMEC
See reverse side (Force Majeure)

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

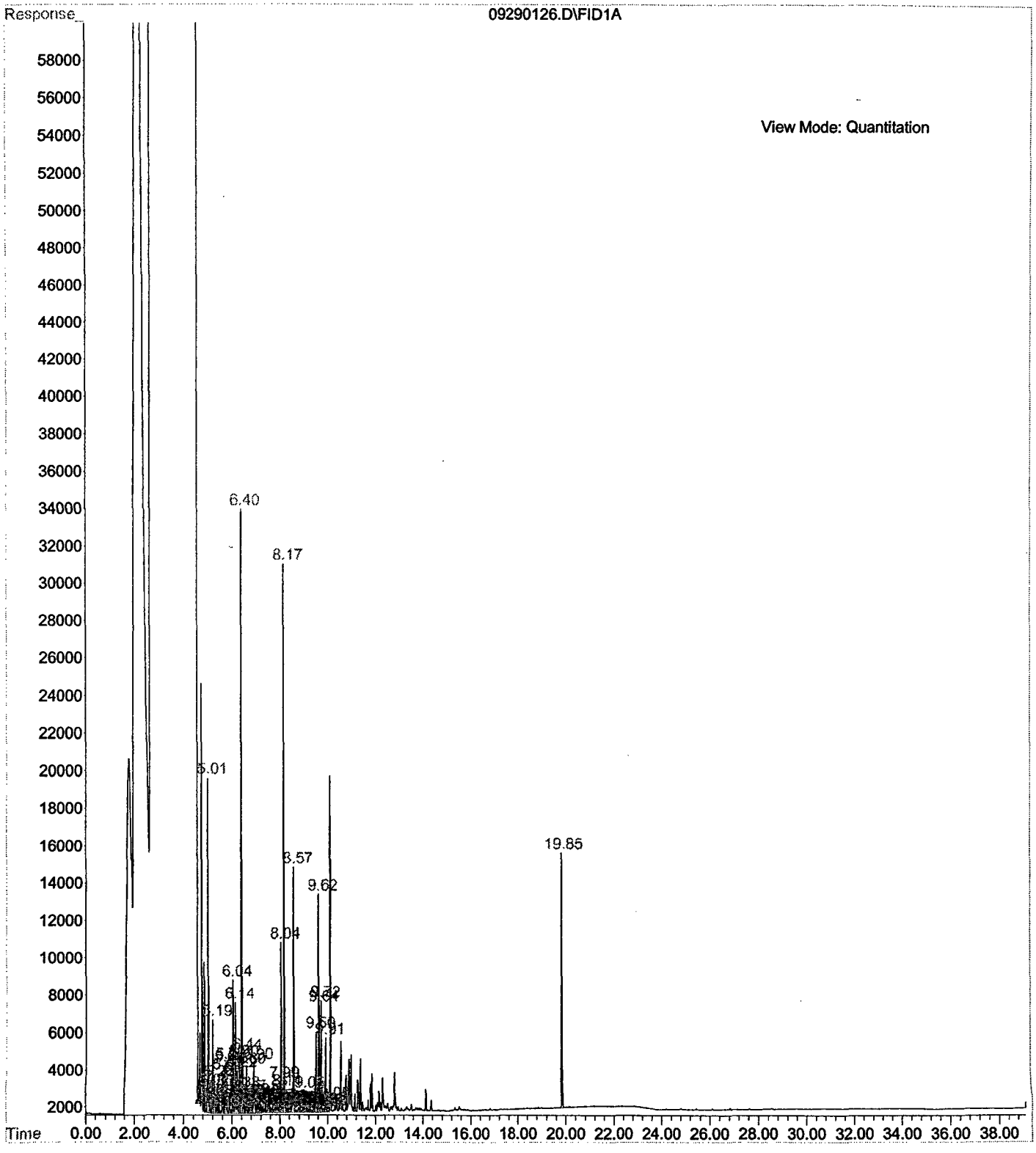
RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 1025
Printed Name: Francine Tarin Date: 9/27/01
Pinnacle Laboratories Inc.

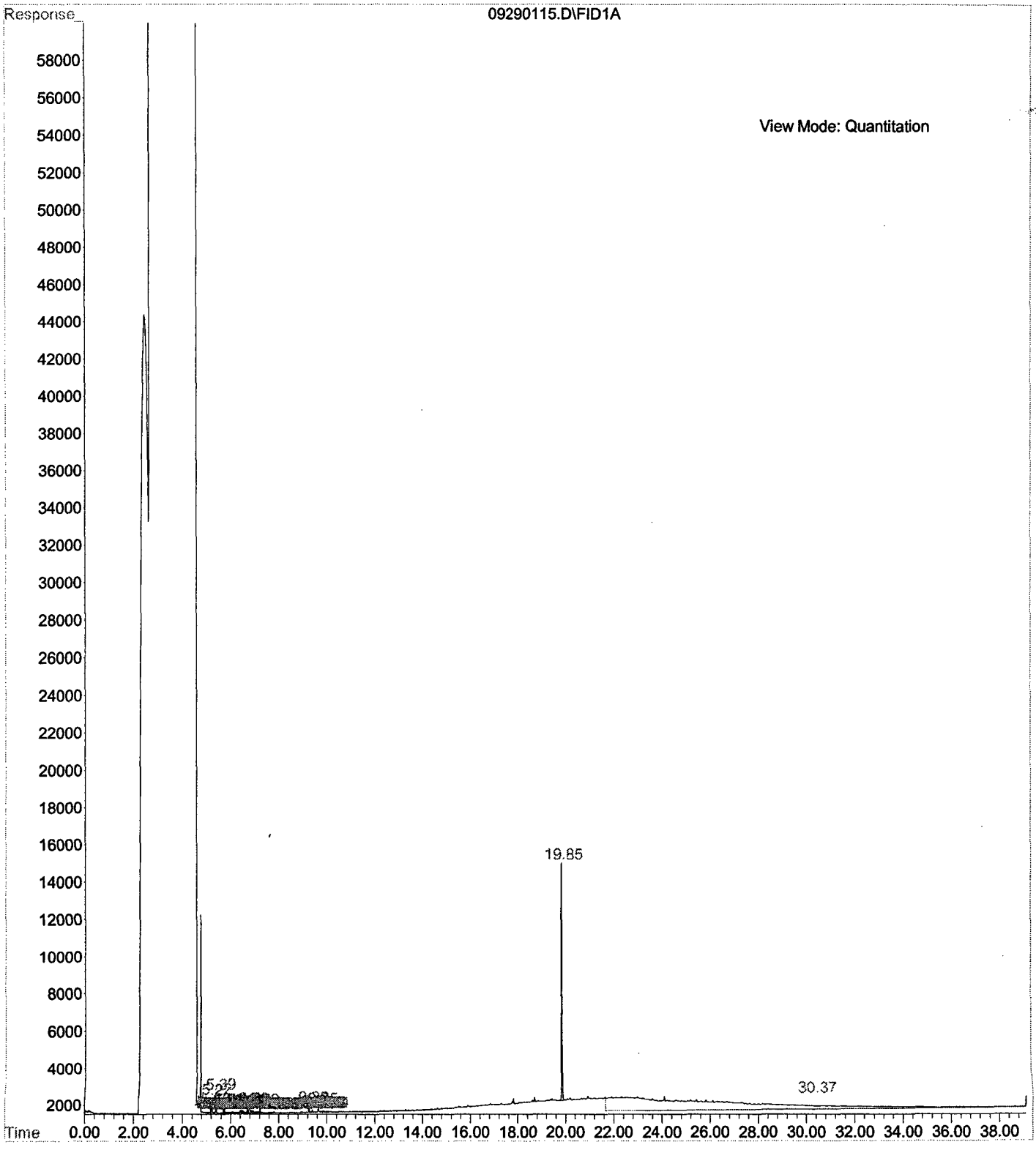
File : C:\HPCHEM\2\DATA\092901\09290113.D
Operator : ccm
Acquired : 30 Sep 2001 2:21 using AcqMethod NM0913F.M
Instrument : FID-1
Sample Name: dsl ccv
Misc Info : GC4-35-06 (exp 11/13/2001)
Vial Number: 13



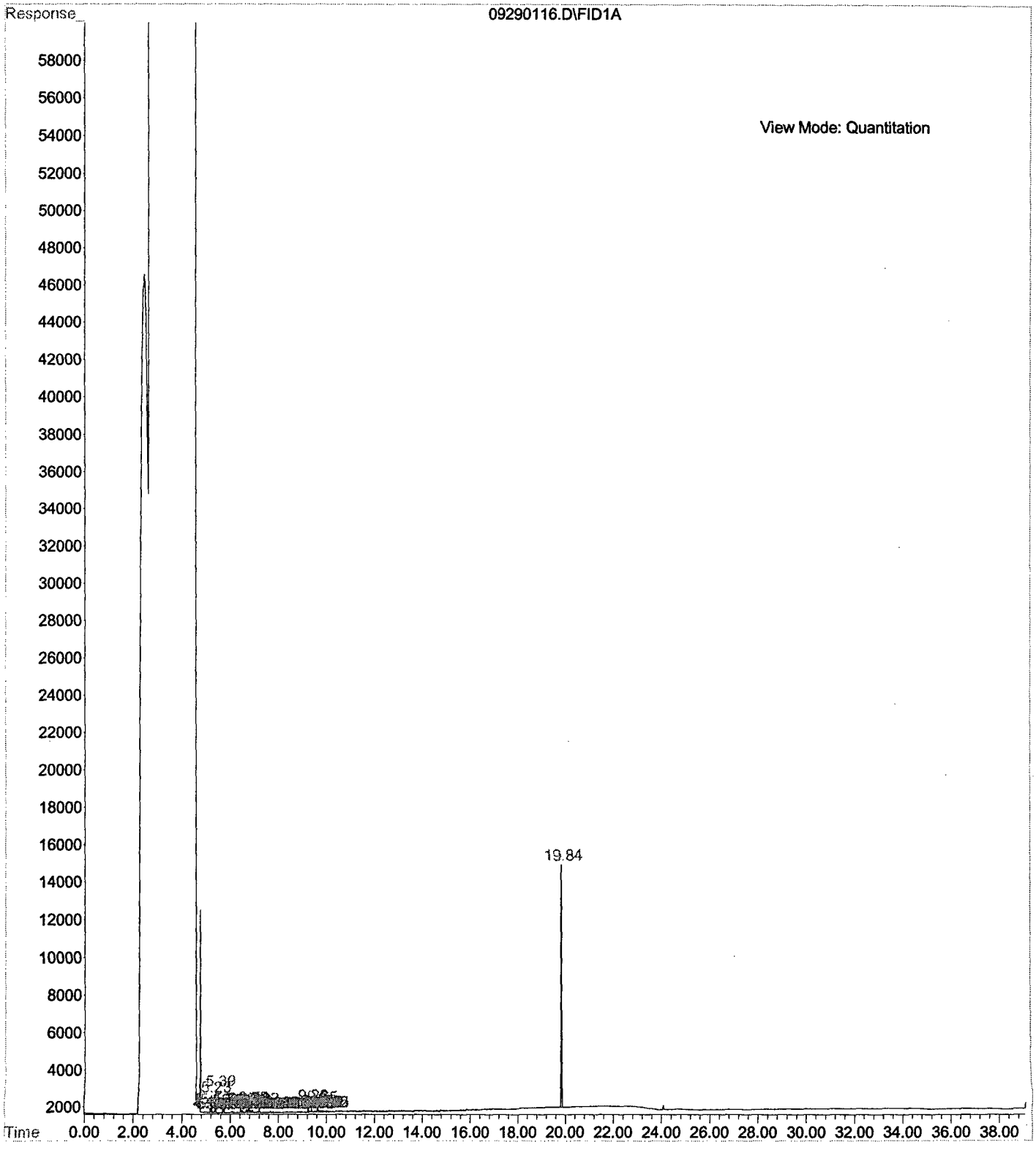
File : C:\HPCHEM\2\DATA\092901\09290126.D
Operator : ccm
Acquired : 30 Sep 2001 13:37 using AcqMethod NM0913F.M
Instrument : FID-1
Sample Name: gas ccv
Misc Info : GC4-35-05 (exp 11/13/2001)
Vial Number: 26



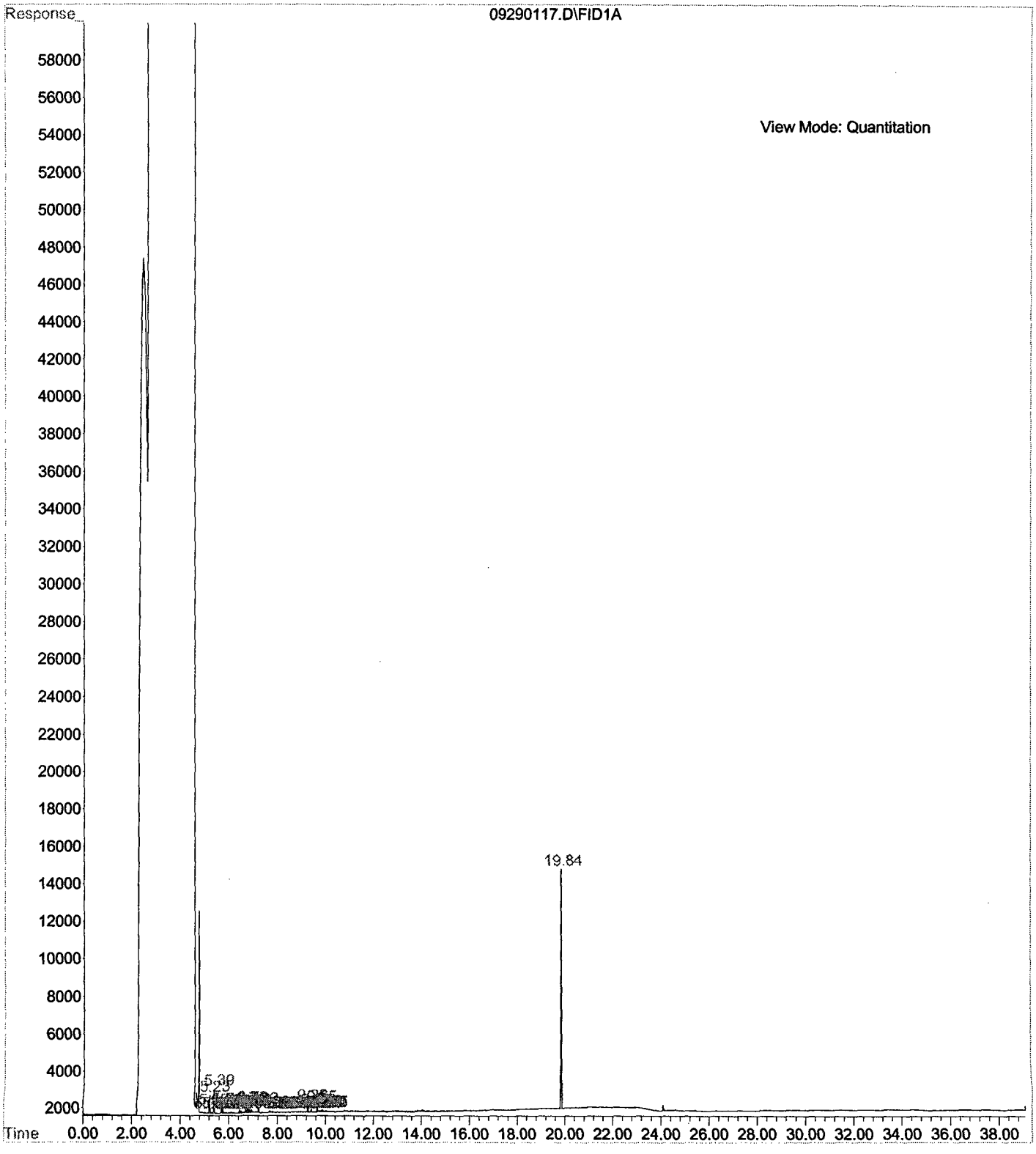
File : C:\HPCHEM\2\DATA\092901\09290115.D
Operator : ccm
Acquired : 30 Sep 2001 4:05 using AcqMethod NM0913F.M
Instrument : FID-1
Sample Name: 109103-01
Misc Info :
Vial Number: 15



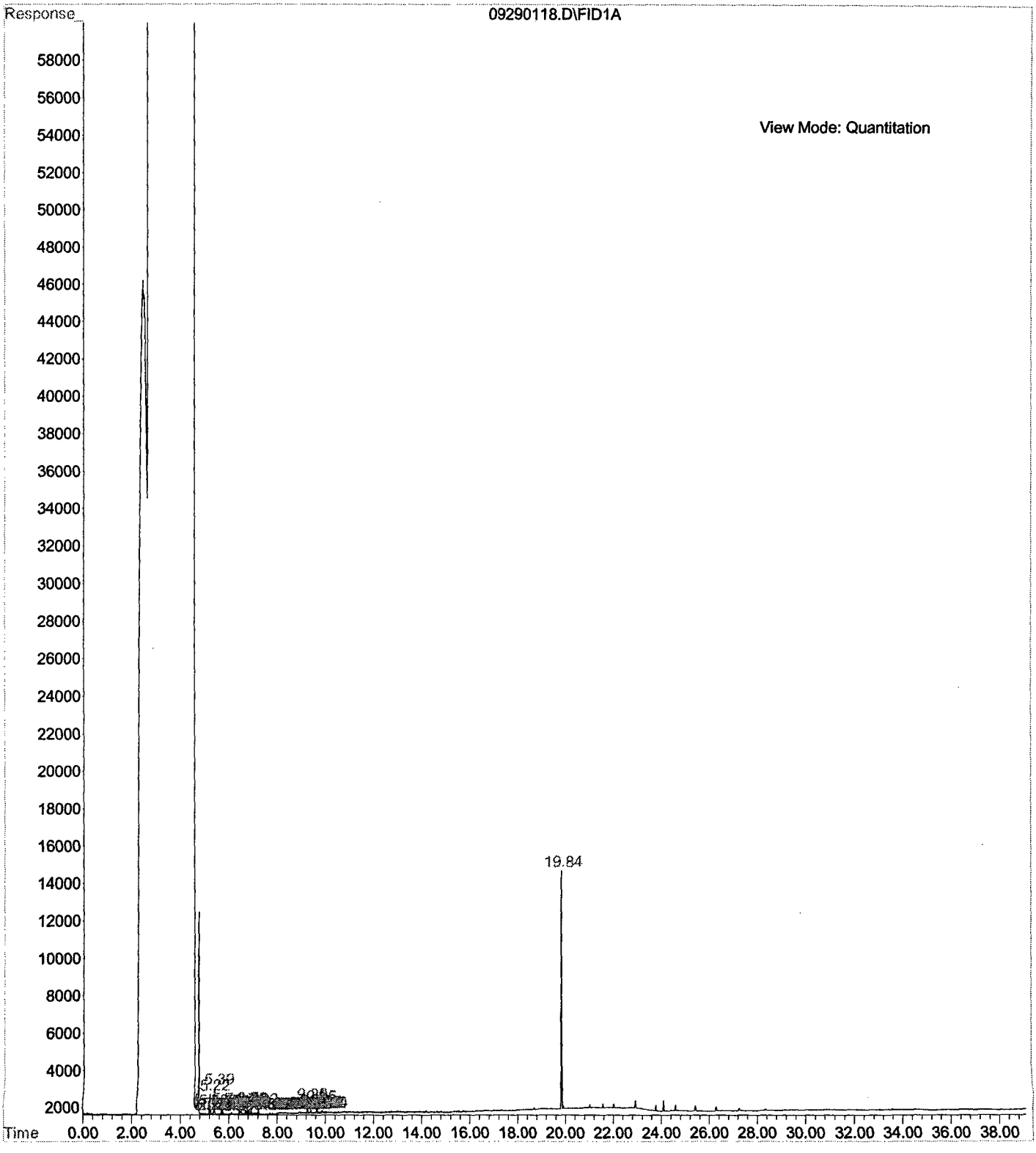
File : C:\HPCHEM\2\DATA\092901\09290116.D
Operator : ccm
Acquired : 30 Sep 2001 4:57 using AcqMethod NM0913F.M
Instrument : FID-1
Sample Name: 109103-02
Misc Info :
Vial Number: 16



File : C:\HPCHEM\2\DATA\092901\09290117.D
Operator : ccm
Acquired : 30 Sep 2001 5:49 using AcqMethod NM0913F.M
Instrument : FID-1
Sample Name: 109103-03
Misc Info :
Vial Number: 17



File : C:\HPCHEM\2\DATA\092901\09290118.D
Operator : ccm
Acquired : 30 Sep 2001 6:40 using AcqMethod NM0913F.M
Instrument : FID-1
Sample Name: 109103-04
Misc Info :
Vial Number: 18



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

● (NMOCD - Santa Fe)
Rec. June 28, 2001
by BMG. DWS
2nd QTR

June 23, 2001

Ms. Patricia Sanchez
Benson Montin Greer
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874

Client No.: 99074-005
Job No.: 907405

Dear Mr. Sanchez,

Enclosed are the analytical results for the samples collected from the location designated as "BMG Liaves Landfarm". Four soil samples were collected by Benson Montin Greer personnel on 6/20/01, and received by the Envirotech laboratory on 6/20/01 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. 9180 and assigned Laboratory Nos. 20105 (Cell #1), 20106 (Cell #2), 20107 (Cell #3) and 20108 (Cell #4) for tracking purposes.

The samples were analyzed on 6/22/01 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

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	06-22-01
Laboratory Number:	20105	Date Sampled:	06-20-01
Chain of Custody:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Analyzed:	06-22-01
Preservative:	Cool	Date Extracted:	06-22-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**10.6**	**1.5**
p,m-Xylene	**52.6**	**2.2**
o-Xylene	**10.6**	**1.0**
Total BTEX	**73.8**	

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: **BMG Liaves Landfarm. Treatment zone sample.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	06-22-01
Laboratory Number:	20106	Date Sampled:	06-20-01
Chain of Custody:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Analyzed:	06-22-01
Preservative:	Cool	Date Extracted:	06-22-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**20.2**	**1.5**
p,m-Xylene	**95.7**	**2.2**
o-Xylene	**36.9**	**1.0**
Total BTEX	**153**	

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: **BMG Liaves Landfarm. Treatment zone sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	06-22-01
Laboratory Number:	20107	Date Sampled:	06-20-01
Chain of Custody:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Analyzed:	06-22-01
Preservative:	Cool	Date Extracted:	06-22-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**4.7**	**1.5**
p,m-Xylene	**181**	**2.2**
o-Xylene	**38.2**	**1.0**
Total BTEX	**224**	

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: **BMG Liaves Landfarm. Treatment zone sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	06-22-01
Laboratory Number:	20108	Date Sampled:	06-20-01
Chain of Custody:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Analyzed:	06-22-01
Preservative:	Cool	Date Extracted:	06-22-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**9.1**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**6.3**	**1.5**
p,m-Xylene	**17.9**	**2.2**
o-Xylene	**13.8**	**1.0**
Total BTEX	**47.1**	

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: **BMG Liaves Landfarm. Treatment zone sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	06-22-BTEX QA/QC	Date Reported:	06-22-01
Laboratory Number:	20105	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-22-01
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.7345E-001	1.7386E-001	0.2%	ND	0.2
Toluene	9.9567E-002	9.9747E-002	0.2%	ND	0.2
Ethylbenzene	1.1831E-001	1.1856E-001	0.2%	ND	0.2
p,m-Xylene	1.1038E-001	1.1066E-001	0.3%	ND	0.2
o-Xylene	9.6926E-002	9.7091E-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	10.6	10.6	0.0%	0 - 30%	1.5
p,m-Xylene	52.6	52.9	0.6%	0 - 30%	2.2
o-Xylene	10.6	10.7	0.9%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100%	39 - 150
Toluene	ND	50.0	50.0	100%	46 - 148
Ethylbenzene	10.6	50.0	60.5	100%	32 - 160
p,m-Xylene	52.6	100	152	100%	46 - 148
o-Xylene	10.6	50.0	60.5	100%	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 20105 - 20108.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	06-22-01
Laboratory Number:	20105	Date Sampled:	06-20-01
Chain of Custody No:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Extracted:	06-22-01
Preservative:	Cool	Date Analyzed:	06-22-01
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**	**0.1**

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: **BMG Liaves Landfarm Treatment Zone Sample.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	06-22-01
Laboratory Number:	20106	Date Sampled:	06-20-01
Chain of Custody No:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Extracted:	06-22-01
Preservative:	Cool	Date Analyzed:	06-22-01
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**	**0.1**

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: **BMG Liaves Landfarm Treatment Zone Sample.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	06-22-01
Laboratory Number:	20107	Date Sampled:	06-20-01
Chain of Custody No:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Extracted:	06-22-01
Preservative:	Cool	Date Analyzed:	06-22-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.3**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**0.3**	**0.1**

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: **BMG Liaves Landfarm Treatment Zone Sample.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #4	Date Reported:	06-22-01
Laboratory Number:	20108	Date Sampled:	06-20-01
Chain of Custody No:	9180	Date Received:	06-20-01
Sample Matrix:	Soil	Date Extracted:	06-22-01
Preservative:	Cool	Date Analyzed:	06-22-01
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**	**0.1**

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: **BMG Liaves Landfarm Treatment Zone Sample.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-22-TPH QA/QC	Date Reported:	06-22-01
Laboratory Number:	20105	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-22-01
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-09-01	2.3924E-002	2.3900E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	05-09-01	2.2999E-002	2.2953E-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%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100%**	**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 20105 - 20108.**

Analyst

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CHAIN OF CUSTODY RECORD

09180

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Benson-Montin-Greer	BMG LIAVES LANDFARM	
Sampler: Patricio W. Sanchez	Client No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8021 BTEX	8015-M TPH (GRO)					Remarks
												ALL Terminal Zone Samples
Cell #1	6/20/01	12:55PM	8	Soil	1	✓	✓					
Cell #2	6/20/01	1:05PM		Soil	1	✓	✓					
Cell #3	6/20/01	1:12PM		Soil	1	✓	✓					
Cell #4	6/20/01	1:24PM		Soil	1	✓	✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/20/01	4:15PM		6-20-01	1610
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ATTACHMENT II

MONTHLY INSPECTION OF EVAP. POND LEAK DETECTION

JAN 01 TO DEC 01

BENSON-MONTIN-GREER DRILLING CORP.
NW/4 SECTION 20, T25N, R1E, NMPM, Rio Arriba County, NM
Permit NM-02-0004

Monthly Evaporation Impoundment Monitor Tube Fluid Levels.

For Calendar Year January 01 to December 01

Date	Monitor Reading Taken by:	Level (Inches)	Change in fluid level from prior Month (Inches)
Jan- 8	Ben L Gonzales	7"	0
Feb- 13	Ben L Gonzales	7"	0
Mar- 14	Ben L Gonzales	7"	0
Apr- 11	Ben L Gonzales	7"	0
May- 18	Ben L Gonzales	7"	0
Jun- 5	Ben L Gonzales	7"	0
Jul- 3	Ben L Gonzales	7"	0
Aug- 2	Ben L Gonzales	7"	0
Sep- 5	Ben L Gonzales	7"	0
Oct- 5	Ben L Gonzales	7"	0
Nov- 5	Ben L Gonzales	7"	0
Dec- 4/01	Ben L Gonzales	5"	-2

BMG

BENSON-MONTIN-GREER DRILLING CORP.

May 29, 2001 **Certified Mail No. 7000-0520-022-5029-1441**

Ms. Martyne J. Kieling
NMOCD
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87504

01 JUN -1 PM 1:41
OIL CONSERVATION DIV.

RE: Annual Report for Benson-Montin-Greer Drilling Corp. (BMG) Centralized Surface Waste Management Facility (Permit No. NM-02-0004) located in NW/4 of Section 20, Township 25 North, Range 1 East, NMPM, Rio Arriba County, New Mexico.

Dear Ms. Kieling,

BMG submits the following Annual report on the above listed facility as required by the permit listed above – page 6 of 8 "Reporting and Record Keeping." – we apologize for not having this report submitted by March 1, 2001 as required.

1. Attachment I is treatment zone monitoring.

2. Attachment II is Monthly Inspection of leak detection system.

3. There are no below grade sumps to monitor. The sludge in the pond is a creamy looking substance that appears to be in suspension in the lower portion of the pond – and can therefore not be measured practically.

4. We have not had any spills of record at the facility in the last year.

5. BMG is maintaining records at the facility – and we have put together many internal forms for inspections(s) and internal waste tracking – blank examples of these forms are included for your reference.

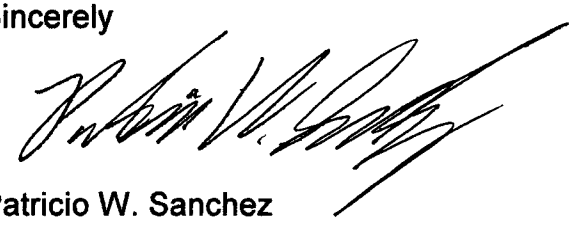
6. We have not installed any new structures – however I refer to your request for additional information dated September 12, 2000 – it was in reference to BMG modification requests dated May 10, 2000 and June 19, 2000 – we have decided that due to the large amount of soils that are currently being handled by the facility caused by two large crude oil pipeline spills that occurred last

4900 College Boulevard, Farmington, NM 87402 (505) 325-8874 Fax (505) 327-9207

year that it is best to monitor the treatment zones as outlined in the permit dated February 2,1999 from NMOCD. We request that our modification request be approved and a new permit that replaces the existing permit be issued. Note: we still are proceeding with the closure of the east-end of the runway treatment cell but as the enclosed sample shows we have not yet obtained low enough levels of TPH (Total TPH is 720 mg/Kg.) – we will continue to remediate this cell and will resample next summer in order to determine if the cell can be closed – note we have ceased a spreading of soils on this cell.

Should your have any questions or require additional information you may contact me at the letterhead address and telephone number.

Sincerely



Patricio W. Sanchez

C Mr. Denny Foust – NMOCD Aztec w/ attachments, ARG, MRD, Ben Gonzales, Royce Meeks w/o attachments, BMG surface waste management file.

ATTACHMENT I

TREATMENT ZONE MONITORING

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

OCD - Santa Fe

March 30, 2001

Mr. Pat Sanchez
Benson Montin Greer Drilling Corp.
4900 College Blvd.
Farmington, NM 87401

Phone (505) 325-8874
Fax (505) 327-9207

Client No.: 99074-005
Job No.: 907405

Dear Mr. Sanchez,

Enclosed are the analytical results for the samples collected from the location designated as "BMG Liaves Landfarm". Four soil samples were collected by Benson Montin Greer personnel on 3/27/01, and received by the Envirotech laboratory on 3/27/01 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA 8021 analysis.

The samples were documented on Envirotech Chain of Custody No. 9178 and assigned Laboratory Nos. 19451 (Cell #1), 19452 (Cell #2), 19453 (Cell #3) and 18454 (Cell #3 Closure) for tracking purposes.

The samples were analyzed on 3/28/00 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

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/benson.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	03-28-01
Laboratory Number:	19451	Date Sampled:	03-27-01
Chain of Custody:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Analyzed:	03-28-01
Preservative:	Cool	Date Extracted:	03-28-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**6.3**	**1.7**
Ethylbenzene	**12.3**	**1.5**
p,m-Xylene	**16.9**	**2.2**
o-Xylene	**1.4**	**1.0**
Total BTEX	**36.9**	

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: **BMG Liaves Landfarm. Treatment Zone.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	03-28-01
Laboratory Number:	19452	Date Sampled:	03-27-01
Chain of Custody:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Analyzed:	03-28-01
Preservative:	Cool	Date Extracted:	03-28-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**41.5**	**1.5**
p,m-Xylene	**33.3**	**2.2**
o-Xylene	**17.1**	**1.0**
Total BTEX	**91.9**	

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: **BMG Liaves Landfarm. Treatment Zone.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	03-28-01
Laboratory Number:	19453	Date Sampled:	03-27-01
Chain of Custody:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Analyzed:	03-28-01
Preservative:	Cool	Date Extracted:	03-28-01
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: **BMG Liaves Landfarm. Treatment Zone.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3 Closure	Date Reported:	03-28-01
Laboratory Number:	19454	Date Sampled:	03-27-01
Chain of Custody:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Analyzed:	03-28-01
Preservative:	Cool	Date Extracted:	03-28-01
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: **BMG Liaves Landfarm. Closure.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-28-BTEX QA/QC	Date Reported:	03-28-01
Laboratory Number:	19451	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-28-01
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.8749E-001	1.8794E-001	0.2%	ND	0.2
Toluene	8.9461E-002	8.9622E-002	0.2%	ND	0.2
Ethylbenzene	9.2177E-002	9.2371E-002	0.2%	ND	0.2
p,m-Xylene	8.9780E-002	9.0005E-002	0.3%	ND	0.2
o-Xylene	7.4625E-002	7.4752E-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	6.3	6.3	0.0%	0 - 30%	1.7
Ethylbenzene	12.3	12.2	0.8%	0 - 30%	1.5
p,m-Xylene	16.9	16.8	0.6%	0 - 30%	2.2
o-Xylene	1.4	1.4	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100%	39 - 150
Toluene	6.3	50.0	56.2	100%	46 - 148
Ethylbenzene	12.3	50.0	62.2	100%	32 - 160
p,m-Xylene	16.9	100	117	100%	46 - 148
o-Xylene	1.4	50.0	51.4	100%	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 19451 - 19458.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #1	Date Reported:	03-28-01
Laboratory Number:	19451	Date Sampled:	03-27-01
Chain of Custody No:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Extracted:	03-28-01
Preservative:	Cool	Date Analyzed:	03-28-01
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**	**0.1**

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: **BMG Liaves Landfarm Treatment Zone.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #2	Date Reported:	03-28-01
Laboratory Number:	19452	Date Sampled:	03-27-01
Chain of Custody No:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Extracted:	03-28-01
Preservative:	Cool	Date Analyzed:	03-28-01
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**	**0.1**

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: **BMG Liaves Landfarm Treatment Zone.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3	Date Reported:	03-28-01
Laboratory Number:	19453	Date Sampled:	03-27-01
Chain of Custody No:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Extracted:	03-28-01
Preservative:	Cool	Date Analyzed:	03-28-01
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**	**0.1**

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: **BMG Liaves Landfarm Treatment Zone.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Benson-Montin-Greer	Project #:	99074-005
Sample ID:	Cell #3 Closure	Date Reported:	03-28-01
Laboratory Number:	19454	Date Sampled:	03-27-01
Chain of Custody No:	9178	Date Received:	03-27-01
Sample Matrix:	Soil	Date Extracted:	03-28-01
Preservative:	Cool	Date Analyzed:	03-28-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**8.9**	**0.2**
Diesel Range (C10 - C28)	**711**	**0.1**
Total Petroleum Hydrocarbons	**720**	**0.1**

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: **BMG Liaves Landfarm Closure.**

Analyst

Review

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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:	03-28-TPH QA/QC	Date Reported:	03-28-01
Laboratory Number:	19451	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-28-01
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	12-20-00	2.5550E-002	2.5525E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	12-20-00	1.4211E-002	1.4183E-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%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100%**	**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 19451 - 19458.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

09178

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Benson-Montin-Greer	BMG HAVES LANDFARM	
Sampler: Patricio W. Sanchez	Client No. 99074-005	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8021 BTEX	8015-M TPH					Remarks
Cell #1	3/27/01	10:23A	19451	Soil	1	✓	✓					Treatment Zone
Cell #2	3/27/01	10:32A	19452	Soil	1	✓	✓					"
Cell #3	3/27/01	11:53A	19453	Soil	1	✓	✓					"
Cell #3 Closure	3/27/01	10:57A	19454	Soil	1	✓	✓					Closure

	Date	Time		Date	Time
Relinquished by: (Signature)	3/27/01	1:45PM	Received by: (Signature)	3/27/01	13:45
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ATTACHMENT II

MONITOR TUBE MONTHTLY INSPECTIONS

BENSON-MONTIN-GREER DRILLING CORP.
NW/4 SECTION 20, T25N, R1E, NMPM, Rio Arriba County, NM
Permit NM-02-0004
Monthly Evaporation Impoundment Monitor Tube Fluid Levels.

For Calendar Year January 01 to December 01

Date	Monitor Reading Taken by:	Level (Inches)	Change in fluid level from prior Month (Inches)
Jan- 8	Ben L Hamilton	7"	0
Feb- 13	Ben L Hamilton	7"	0
Mar- 14	Ben L Hamilton	7"	0
Apr- 11	Ben L Hamilton	7"	0
May- 18	Ben L Hamilton	7"	0
Jun-			
Jul-			
Aug-			
Sep-			
Oct-			
Nov-			
Dec-			

BENSON-MONTIN-GREER DRILLING CORP.
NW/4 SECTION 20, T25N, R1E, NMPM, Rio Arriba County, NM
Permit NM-02-0004
Monthly Evaporation Impoundment Monitor Tube Fluid Levels.

For Calendar Year January 00 **to December** 00

Date	Monitor Reading Taken by:	Level (Inches)	Change in fluid level from prior Month (Inches)
Jan- 3	Ben L Gonzales	9"	-0-
Feb- 2	Ben L Gonzales	9"	-0-
Mar- 3	Ben L Gonzales	9"	-0-
Apr- 1	Ben L Gonzales	1'-1"	4"
May- 1	Ben L Gonzales	1'-0"	-1"
Jun- 3	Ben L Gonzales	1'-0"	-0-
7/7/00		1-0"	-0-
Jul- 7/27/00	Ben L Gonzales	1'-2" 6"	Pumped out water 8"
Aug- 2	Ben L Gonzales	7"	1"
Sep- 1	Ben L Gonzales	7"	-0-
Oct- 2	Ben L Gonzales	7"	-0-
Nov- 4	Ben L Gonzales	7"	-0-
Dec- 5	Ben L Gonzales	7"	-0-

ATTACHMENT III

FORMS – USED AT BMG'S CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY.

BENSON-MONTIN-GREER DRILLING CORP.

(Internal waste tracking form : Company operations –Permit No. NM-02-0004)

Llaves, New Mexico NMOCD permitted Rule 711 Surface Waste Management Facility.

Located in NW/4 Section 20, T25N, R1E, NMPM, Rio Arriba County, New Mexico.

Waste Status: _____ RCRA Subtitle C Exempt

Or

_____ Non-exempt/ Non-Hazardous * *see Condition

Condition – Non-exempt/non-hazardous status must be shown by chemical analysis, i.e.- the sample must be represent the waste stream and must pass TCLP and RIC as outlined in 40 CFR Part 261 – The waste also cannot not contain any listed hazardous waste. *Attach lab analysis or process knowledge certification.*

NOTE: *If unsure as to the waste status – notify the BMG main office at (505)-325-8874.*

Point of Origin Location: (*i.e. area, line, well location, facility where waste is coming from.*) :

_____

(Note: - Only wastes generated by Benson-Montin-Greer can be taken)

Amount of material (Use Cubic yards for soil and solids/ and barrels for liquids.)

_____

Transporter (Produced water can only be hauled by those who process a valid NMOCD form C-133 Approval.)

_____

Point of Disposal at BMG's Facility (i.e. if liquid state " Evaporation pond" – If soil or solids list to "Landfarm" and "Which Cell")

_____

_____

_____

Company Certification: (Benson-Montin-Greer Drilling Corporation Representative)

I _____ to the best of my knowledge know the above to be true and correct.

Date:_____ Printed Name_____

BENSON-MONTIN-GREER DRILLING CORP.
NMOCD RULE 711 PERMIT NM-02-004 (Located @ NW/4, T25N, R1E, NMPM, Rio Arriba County.)

Weekly Inspection and Significant Event Report*. (Landfarm Area)

*** A significant event is any event such as a storm or mishap that may cause damage to the landfarm site or off-sight property.**

General Condition of Land farm area including berms and cells and action taken to correct problems:

_____

_____

_____

_____

_____

Amount of New Material and Where: _____

_____

_____

_____

Specific date of Disking of soil and Which Cell: _____

_____

_____

General points:

1. Disk all active cells every two weeks.
2. Place new soil in 6 (inch) lays.
3. All soils that are hauled in must be spread with-in 72 hours.
4. No free liquid containing wastes can be spread on the landfarm.
5. Exempt wastes cannot be mixed with non-exempt-non-hazardous wastes.
6. Each spill, leak, or clean-up must be segregated from each other.
7. The maximum size per treatment cell is 5 Acres. (4,033 cubic yards)
8. Plastic and any other domestic waste or trash cannot be allowed into the landfarm and shall immediately upon discovery be removed and recycled or disposed of properly.
9. All active cells remedial soils and treatment zone must be monitored and sampled per the latest NMOCD approved permit conditions.
10. UNDER NO CIRCUMSTANCE CAN NON-BMG wastes be taken, and no RCRA Subtitle C Wastes can be taken.

I _____ **Signed Name** _____ **Printed Name**
Certify this inspection to be true,
Today's Date and Time: _____

BENSON-MONTIN-GREER DRILLING CORP.

NMOCD RULE 711 PERMIT NM-02-004 (Located @ NW/4, T25N, R1E, NMPM, Rio Arriba County.)

Evaporation Impoundment Weekly Inspection and Significant Event Report*.

* A significant event is any event such as a storm or mishap that may cause damage to the impoundment, tank area, pump area, spray evaporation area, or leak detection monitor.

Results of H2S walk around:_____

(Refer to permit if H2S is measured for action to be taken.)

Results of Monitor Tube Inspection: _____

(Refer to permit if water level is a concern for action to be taken.)

General Condition of the Impoundment Levee – Note any erosion or slough problems and action taken to correct:

_____

_____

General Condition of Berm and Tank, Pump Leak Containment, Spray Evaporation System, and Impoundment Fluid Level.

_____

_____

_____

_____

_____

_____

_____

_____

I _____ **Signed Name** _____ **Printed Name**
Certify this inspection to be true,
Today's Date and Time:_____

BENSON-MONTIN-GREER DRILLING CORP.
NW/4 SECTION 20, T25N, R1E, NMPM, Rio Arriba County, NM
Permit NM-02-0004

Monthly Evaporation Impoundment Monitor Tube Fluid Levels.

For Calendar Year January _____ to December _____

Date	Monitor Reading Taken by:	Level (Inches)	Change in fluid level from prior Month (Inches)
Jan-			
Feb-			
Mar-			
Apr-			
May-			
Jun-			
Jul-			
Aug-			
Sep-			
Oct-			
Nov-			
Dec-			