NM1 - 10A

GENERAL CORRESPONDENCE

YEAR(S):

2006-2004

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

June 19, 2006

Mr. Phillip C. Nobis
Tierra Environmental Co., Inc.
P.O. Box 566
Bloomfield, NM 87413

RE: Final Report – Closure of Tierra Landfarm NMOCD Permit # NM-01-0010
NW/4, SE/4 of Section 2, Township 29 North, Range 12 West
San Juan County, New Mexico

Dear Mr. Nobis:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the above report. This report is hereby approved and the landfarm covered by permit number NM-01-0010 is hereby closed.

NMOCD approval of this closure does not relieve Tierra Environmental Co., Inc. (Tierra) of responsibility should its operations at this site prove to have been harmful to public health or the environment. Nor does it relieve Tierra of its responsibility to comply with the rules and regulations of any other governmental agency.

If you have any questions, contact Wayne Price at (505) 476-3490 or wayne.price@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Ed Martin
Environmental Bureau

Copy: NMOCD, Aztec
Gary Howlett, Citizens Bank, Farmington

INTRODUCTION

The Tierra Environmental Co., Inc., Landfarm located in the NW/4 SE/4 of Section 2, Township 29 North, Range 12 West at San Juan County, New Mexico has operated under a New Mexico Oil Conservation (NMOCD) Permit # NM-01-0010 since January of 1992.

In September of 2002 approximately 62 of the permitted 82 acres were sold to Industrial Eco Systems. NMOCD split the permit to # NM-01-0010B the 62 acres acquired by Industrial Eco Systems and NM-01-0010A the portion retained by Tierra Environmental Co., Inc.

In 2003 San Juan County NM acquired a 60' R-O-W from Tierra Environmental Co., Inc. for re-construction of CR 3100 and an adjacent County Road intersecting CR 3100. This left approximately 17 acres regulated by the OCD Permit # NM-01-0010A. Later in 2004 OCD released approximately 4.5 acres of the permitted 17 acres.

In July of 2005 and again in April of 2006 soil samples were taken. It appears from the analysis that the remaining approximately 12 acres are free of any migratory contaminants.

The following is a final report to NMOCD, diagrams and laboratory analysis conducted by Envirotech Labs of Farmington, New Mexico

TABLE OF CONTENTS

FINAL REPORT
CLOSURE
Of
THE TIERRA LANDFARM OCD PERMIT # NM-01-0010
NW/4 SE/4 of Section 2, Township 29 North, Range 12 West
San Juan County, New Mexico

April 20, 2006

Mr. Ed Martin
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

On July 7, 2005 Sterns Enterprises of Aztec, NM who had been contracted by me sampled soil at the Tierra Landfarm as described in the title above. The samples were taken pursuant to your letter of instruction dated April 20, 2005.

According to the map furnished by you with the instructions, samples were to be taken from certain cells you had identified as A, B, C, D, E, F and G. One sample each was to be taken from cells A through E and then five samples each were to be taken from cells F and G.

Sterns Enterprises retrieved the samples in accordance with EPA approved methods, placed them in approved sample jars, kept them cool and intact and delivered them to Envirotech Lab's in San Juan County, New Mexico that same date.

An attempt was made by me to contact Denny Foust of the Aztec, NM OCD office, 48 hours in advance of the sampling. He was unavailable. A voice mail was left at his Aztec, NM office, notifying him of the date and time the samples were to be taken.

I was personally present while the samples were collected on July 14, 2005. In the northeast and northwest corner of the property as shown in the attached exhibit 1, I noticed stained soil with a moderate hydrocarbon odor. I directed Sterns to take two additional samples at about 12" below the surface in those areas. Those samples were identified as P-1 and P-2.

Tierra Environmental Co., Inc., had previously contracted with Industrial Eco Systems who occupy the adjacent landfarm for the purpose of remediating any contaminated soil within and upon the remaining approximately 12 acres in question. Obviously they did not complete the remediation.

After the analytical results were received from Envirotech of the samples taken referred to previously, it was apparent that some contamination still existed in the Northeast and Northwest portion of the remaining approximate 12 acres. Industrial Eco Systems was notified and again failed to act. Second on the liability list was San Juan County who had been granted a right-of-way not only for the new CR 3100 project but also for the alignment of the existing County Road to the east of the remaining approximate 12 acres. The county apparently had pushed the contaminated soil from the right-of-way alignment onto the Northeast and Northwest portion of the 12 + or – 12 acres. It had been compacted to a depth of approximately three feet. In mid March 2006, San Juan County at my request excavated the contaminated soil and spread it upon the surface as described in Exhibit 2.

On March 31, 2006, in the presence of Denny Foust OCD Aztec, three, five-point samples were taken by me of the excavated and spread soil. Reference Exhibit 2. Those samples were retrieved according to EPA approved methods, kept cool and intact and delivered to Envirotech Labs in San Juan County, NM that same date.

Because the area wherein the three five point samples were taken on March 31, 2006 had passed sub surface testing for Metal's and Cation/Anion as a result of the July 14, 2006, analysis, further sampling was not repeated for those constituents.

The July 14, 2006 Analytical Data is attached hereto and incorporated by reference as an attachment to Exhibit 1. The March 31, 2006 Analytical Date is attached hereto and incorporated by reference as an attachment to Exhibit 2.

On behalf of Tierra Environmental Co., Inc., I would respectfully request that final closure of the remaining approximately 12 acres be granted by OCD.

Tierra Environmental Co., Inc. c/o

Phillip C. Nobis
President
P.O. Box 566
Bloomfield, New Mexico 87413
Phone 505-632-0463 Cell 505-860-5872
E-mail Phil@instreem.net

Xc: D. Foust NMOCD Aztec, NM

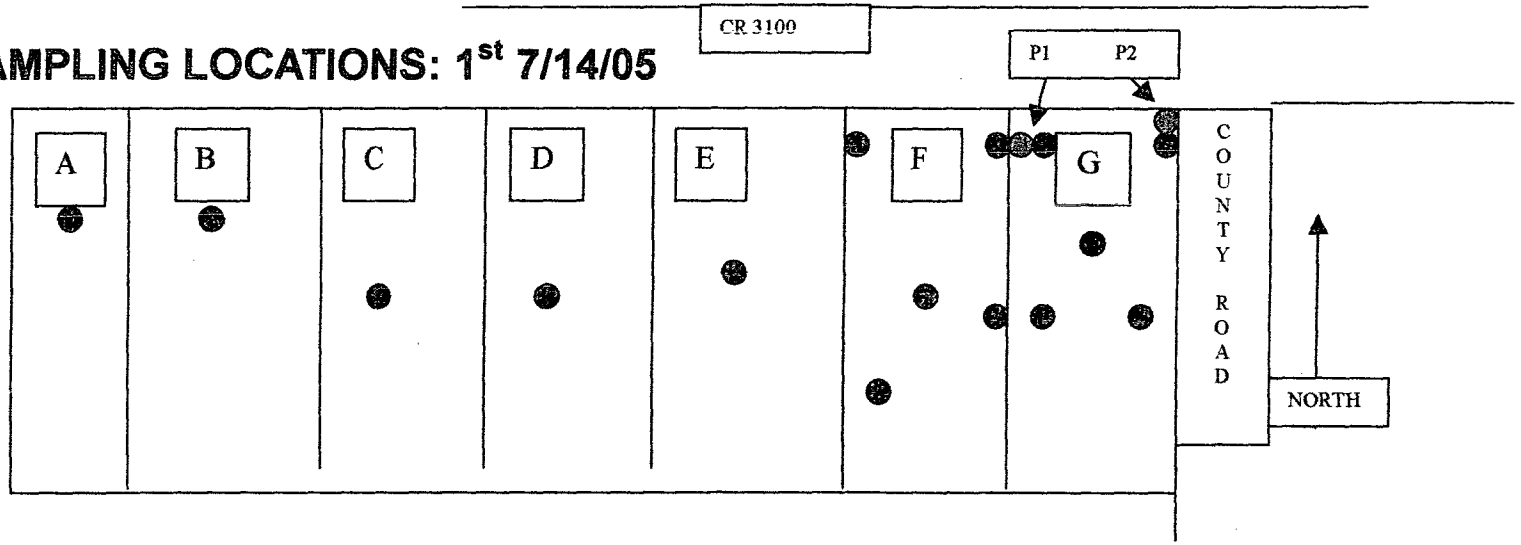
FINAL CLOSURE
TIERRA LANDFARM

Exhibit 1

PERMIT # NM-01-0010A

NW/4 SE/4 of SECTION 2, TOWNSHIP 29 NORTH, RANGE 12 WEST
SAN JUAN COUNTY, NEW MEXICO

SAMPLING LOCATIONS: 1st 7/14/05



TPH – A ND B- 20.1mg/Kg C- ND D- ND E- 0.8mg/Kg

F- 1SW 0.6mg/Kg G-1NE 207 mg/kg
F-2 SE ND G-2NW 82 mg/Kg
F-3 Cen ND G-3 Cen 81.5 mg/Kg
F-4 NW 4.0 m/Kg G-4 SE ND
F-5 NE ND G-5 SW ND
P-1 NNW 12" depth 501mg/Kg
P-2 NNE 12" depth 1,070 mg/Kg

BTEX – A 32.7ug/Kg B-115ug/Kg C-34.6ug/Kg D-42.6ug/Kg E-16.1ug/Kg

F-1SW ND G-1NE 42.1 ug/Kg
F-2SE ND G-2 NW 95.9 ug/Kg
F-3 Cen 55.1ug/Kg G-3 Cen 50.6 ug/Kg
F-4 NW 2,210 G-4 SE 48.9 ug/Kg
F-5 NE 54.0 ug/Kg G-5 SW 36.0 ug/Kg

Benzene A-ND B-ND C-ND D-ND E-ND

F-1SW ND G-1NE ND
F-2 SE ND G-2 NW ND
F-3 Cen ND G-3 Cen ND
F-4 NW 42.3 ug/Kg G-4 SE ND
F-5 NE 14.1 ug/Kg G-5 SW ND

All Metals all sampling locations below regulatory limits

Cation/Anion Difference 0.08%

ENVIROTECH LABS
CRITICAL SOLUTIONS FOR A BETTER TOMORROW

July 22, 2005

Mr. Phill Nobis
37 CR 5285
Bloomfield, NM 87413

Phone: (505) 632-1404

Client No.: 04184-001

Dear Mr. Nobis,

Enclosed are the analytical results for the samples collected from the location designated as "Crouch Mesa Landfarm". Seventeen soil samples were collected by Sterns Enterprises on 7/14/05, and received by the Envirotech laboratory on 7/14/05 for BTEX per USEPA Method 8021, Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015, RCRA 8 List Metals analysis.

The samples were documented on Envirotech Chain of Custody No. 14285 and assigned Laboratory Nos. 33648 (A), 33649 (B), 33650 (C), 33651 (D), 33652 (E), 33653 (F-1), 33654 (F-2), 33655 (F-3), 33656 (F-4), 33657 (F-5), 33658 (G-1), 33659 (G-2), 33660 (G-3), 33661 (G-4), 33662 (G-5), 33663 (P-1) and 33664 (P-2) for tracking purposes.

The samples were analyzed 7/16/04 through 7/19/05 by EMC Labs, Inc 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/Nobis.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	A	Date Reported:	07-16-05
Laboratory Number:	33648	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa 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:	Phil Nobis	Project #:	04184-001
Sample ID:	B	Date Reported:	07-16-05
Laboratory Number:	33649	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**20.1**	**0.1**
Total Petroleum Hydrocarbons	**20.1**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	C	Date Reported:	07-16-05
Laboratory Number:	33650	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	D	Date Reported:	07-16-05
Laboratory Number:	33651	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	E	Date Reported:	07-16-05
Laboratory Number:	33652	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.8**	**0.1**
Total Petroleum Hydrocarbons	**0.8**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 1	Date Reported:	07-16-05
Laboratory Number:	33653	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.6**	**0.1**
Total Petroleum Hydrocarbons	**0.6**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 2	Date Reported:	07-16-05
Laboratory Number:	33654	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 3	Date Reported:	07-16-05
Laboratory Number:	33655	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 4	Date Reported:	07-16-05
Laboratory Number:	33656	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**3.6**	**0.2**
Diesel Range (C10 - C28)	**0.4**	**0.1**
Total Petroleum Hydrocarbons	**4.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 5	Date Reported:	07-16-05
Laboratory Number:	33657	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-14-05
Preservative:	Cool	Date Analyzed:	07-16-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 1	Date Reported:	07-17-05
Laboratory Number:	33658	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-15-05
Preservative:	Cool	Date Analyzed:	07-17-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**207**	**0.1**
Total Petroleum Hydrocarbons	**207**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 2	Date Reported:	07-17-05
Laboratory Number:	33659	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-15-05
Preservative:	Cool	Date Analyzed:	07-17-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**82.0**	**0.1**
Total Petroleum Hydrocarbons	**82.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 3	Date Reported:	07-17-05
Laboratory Number:	33660	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-15-05
Preservative:	Cool	Date Analyzed:	07-17-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**81.5**	**0.1**
Total Petroleum Hydrocarbons	**81.5**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 4	Date Reported:	07-17-05
Laboratory Number:	33661	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-15-05
Preservative:	Cool	Date Analyzed:	07-17-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 5	Date Reported:	07-17-05
Laboratory Number:	33662	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-15-05
Preservative:	Cool	Date Analyzed:	07-17-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	P - 1	Date Reported:	07-17-05
Laboratory Number:	33663	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-15-05
Preservative:	Cool	Date Analyzed:	07-17-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**501**	**0.1**
Total Petroleum Hydrocarbons	**501**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	P - 2	Date Reported:	07-17-05
Laboratory Number:	33664	Date Sampled:	07-14-05
Chain of Custody No:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-15-05
Preservative:	Cool	Date Analyzed:	07-17-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**1,070**	**0.1**
Total Petroleum Hydrocarbons	**1,070**	**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: **Crouch Mesa Landfarm.**

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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:	07-17-05 QA/QC	Date Reported:	07-17-05
Laboratory Number:	33658	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-17-05
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9962E+002	1.0006E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	1.0015E+003	1.0035E+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	**207**	**206**	**0.8%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**207**	**250**	**456**	**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 33658 - 33664.**

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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:	07-16-05 QA/QC	Date Reported:	07-16-05
Laboratory Number:	33648	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-16-05
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9731E+002	9.9831E+002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	1.0010E+003	1.0030E+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 33648 - 33657.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	A	Date Reported:	07-16-05
Laboratory Number:	33648	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**15.7**	**1.8**
Ethylbenzene	**3.9**	**1.7**
p,m-Xylene	**9.7**	**1.5**
o-Xylene	**3.4**	**2.2**
Total BTEX	**32.7**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	B	Date Reported:	07-16-05
Laboratory Number:	33649	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**13.9**	**1.8**
Ethylbenzene	**3.8**	**1.7**
p,m-Xylene	**84.4**	**1.5**
o-Xylene	**13.2**	**2.2**
Total BTEX	**115**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	C	Date Reported:	07-16-05
Laboratory Number:	33650	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**15.0**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**19.6**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**34.6**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	D	Date Reported:	07-16-05
Laboratory Number:	33651	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**15.3**	**1.8**
Ethylbenzene	**16.8**	**1.7**
p,m-Xylene	**10.5**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**42.6**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	E	Date Reported:	07-16-05
Laboratory Number:	33652	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**10.9**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**5.2**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**16.1**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 1	Date Reported:	07-16-05
Laboratory Number:	33653	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 2	Date Reported:	07-16-05
Laboratory Number:	33654	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 3	Date Reported:	07-16-05
Laboratory Number:	33655	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**18.8**	**1.8**
Ethylbenzene	**3.7**	**1.7**
p,m-Xylene	**27.9**	**1.5**
o-Xylene	**4.7**	**2.2**
Total BTEX	**55.1**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 4	Date Reported:	07-16-05
Laboratory Number:	33656	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**42.2**	**2.1**
Toluene	**231**	**1.8**
Ethylbenzene	**371**	**1.7**
p,m-Xylene	**1,090**	**1.5**
o-Xylene	**471**	**2.2**
Total BTEX	**2,210**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 5	Date Reported:	07-16-05
Laboratory Number:	33657	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-16-05
Preservative:	Cool	Date Extracted:	07-14-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**14.1**	**2.1**
Toluene	**5.0**	**1.8**
Ethylbenzene	**6.0**	**1.7**
p,m-Xylene	**18.0**	**1.5**
o-Xylene	**10.9**	**2.2**
Total BTEX	**54.0**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 1	Date Reported:	07-17-05
Laboratory Number:	33658	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-17-05
Preservative:	Cool	Date Extracted:	07-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**16.9**	**1.8**
Ethylbenzene	**4.6**	**1.7**
p,m-Xylene	**15.6**	**1.5**
o-Xylene	**5.0**	**2.2**
Total BTEX	**42.1**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 2	Date Reported:	07-17-05
Laboratory Number:	33659	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-17-05
Preservative:	Cool	Date Extracted:	07-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**25.6**	**1.8**
Ethylbenzene	**4.2**	**1.7**
p,m-Xylene	**55.1**	**1.5**
o-Xylene	**11.0**	**2.2**
Total BTEX	**95.9**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 3	Date Reported:	07-17-05
Laboratory Number:	33660	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-17-05
Preservative:	Cool	Date Extracted:	07-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**18.8**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**27.8**	**1.5**
o-Xylene	**4.0**	**2.2**
Total BTEX	**50.6**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 4	Date Reported:	07-17-05
Laboratory Number:	33661	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-17-05
Preservative:	Cool	Date Extracted:	07-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**18.5**	**1.8**
Ethylbenzene	**16.7**	**1.7**
p,m-Xylene	**13.7**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**48.9**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 5	Date Reported:	07-17-05
Laboratory Number:	33662	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-17-05
Preservative:	Cool	Date Extracted:	07-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**17.4**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**15.5**	**1.5**
o-Xylene	**3.1**	**2.2**
Total BTEX	**36.0**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	P - 1	Date Reported:	07-17-05
Laboratory Number:	33663	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-17-05
Preservative:	Cool	Date Extracted:	07-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**21.0**	**1.8**
Ethylbenzene	**23.9**	**1.7**
p,m-Xylene	**20.6**	**1.5**
o-Xylene	**3.4**	**2.2**
Total BTEX	**68.9**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	P - 2	Date Reported:	07-17-05
Laboratory Number:	33664	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-17-05
Preservative:	Cool	Date Extracted:	07-15-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**19.5**	**1.8**
Ethylbenzene	**2.4**	**1.7**
p,m-Xylene	**18.1**	**1.5**
o-Xylene	**3.0**	**2.2**
Total BTEX	**43.0**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-17-BTEX QA/QC	Date Reported:	07-17-05
Laboratory Number:	33658	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-17-05
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	2.0241E+007	2.0282E+007	0.2%	ND	0.2
Toluene	5.7602E+007	5.7717E+007	0.2%	ND	0.2
Ethylbenzene	4.2557E+007	4.2642E+007	0.2%	ND	0.2
p,m-Xylene	8.7989E+007	8.8166E+007	0.2%	ND	0.2
o-Xylene	4.3634E+007	4.3721E+007	0.2%	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	2.0
Toluene	16.9	16.8	0.6%	0 - 30%	2.0
Ethylbenzene	4.6	4.5	2.2%	0 - 30%	2.0
p,m-Xylene	15.6	15.5	0.6%	0 - 30%	2.0
o-Xylene	5.0	4.9	2.0%	0 - 30%	2.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	16.9	50.0	66.8	99.9%	46 - 148
Ethylbenzene	4.6	50.0	54.6	100.0%	32 - 160
p,m-Xylene	15.6	100	115	99.8%	46 - 148
o-Xylene	5.0	50.0	54.9	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 33658 - 33664.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-16-BTEX QA/QC	Date Reported:	07-16-05
Laboratory Number:	33648	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-16-05
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	1.6854E+007	1.6887E+007	0.2%	ND	0.2
Toluene	5.8906E+007	5.9024E+007	0.2%	ND	0.2
Ethylbenzene	4.5978E+007	4.6070E+007	0.2%	ND	0.2
p,m-Xylene	9.1897E+007	9.2081E+007	0.2%	ND	0.2
o-Xylene	4.6181E+007	4.6273E+007	0.2%	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	2.0
Toluene	15.7	15.6	0.6%	0 - 30%	2.0
Ethylbenzene	3.9	3.8	2.6%	0 - 30%	2.0
p,m-Xylene	9.7	9.6	1.0%	0 - 30%	2.0
o-Xylene	3.4	3.3	2.9%	0 - 30%	2.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	15.7	50.0	65.7	100.0%	46 - 148
Ethylbenzene	3.9	50.0	53.8	99.8%	32 - 160
p,m-Xylene	9.7	100	109	99.7%	46 - 148
o-Xylene	3.4	50.0	53.4	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 33648 - 33657.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	A	Date Reported:	07-18-05
Laboratory Number:	33648	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.130**	**0.001**	**5.0**
Barium	**39.9**	**0.001**	**100**
Cadmium	**0.013**	**0.001**	**1.0**
Chromium	**0.287**	**0.001**	**5.0**
Lead	**0.524**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.755**	**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: **Crouch Mesa Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	B	Date Reported:	07-18-05
Laboratory Number:	33649	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.149**	**0.001**	**5.0**
Barium	**37.2**	**0.001**	**100**
Cadmium	**0.023**	**0.001**	**1.0**
Chromium	**0.294**	**0.001**	**5.0**
Lead	**0.453**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.784**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	C	Date Reported:	07-18-05
Laboratory Number:	33650	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.131**	**0.001**	**5.0**
Barium	**38.8**	**0.001**	**100**
Cadmium	**0.018**	**0.001**	**1.0**
Chromium	**0.302**	**0.001**	**5.0**
Lead	**0.458**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.746**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	D	Date Reported:	07-18-05
Laboratory Number:	33651	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.152**	**0.001**	**5.0**
Barium	**36.3**	**0.001**	**100**
Cadmium	**0.012**	**0.001**	**1.0**
Chromium	**0.267**	**0.001**	**5.0**
Lead	**0.469**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.689**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	E	Date Reported:	07-18-05
Laboratory Number:	33652	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.150**	**0.001**	**5.0**
Barium	**39.1**	**0.001**	**100**
Cadmium	**0.011**	**0.001**	**1.0**
Chromium	**0.294**	**0.001**	**5.0**
Lead	**0.461**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.733**	**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: **Crouch Mesa Landfarm.**

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TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 1	Date Reported:	07-18-05
Laboratory Number:	33653	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.138**	**0.001**	**5.0**
Barium	**6.42**	**0.001**	**100**
Cadmium	**0.014**	**0.001**	**1.0**
Chromium	**0.266**	**0.001**	**5.0**
Lead	**0.440**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.711**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 2	Date Reported:	07-18-05
Laboratory Number:	33654	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.111**	**0.001**	**5.0**
Barium	**40.9**	**0.001**	**100**
Cadmium	**0.012**	**0.001**	**1.0**
Chromium	**0.273**	**0.001**	**5.0**
Lead	**0.462**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.663**	**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: **Crouch Mesa Landfarm.**

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TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 3	Date Reported:	07-18-05
Laboratory Number:	33655	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.193**	**0.001**	**5.0**
Barium	**36.2**	**0.001**	**100**
Cadmium	**0.009**	**0.001**	**1.0**
Chromium	**0.281**	**0.001**	**5.0**
Lead	**0.444**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.724**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 4	Date Reported:	07-18-05
Laboratory Number:	33656	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.141**	**0.001**	**5.0**
Barium	**36.6**	**0.001**	**100**
Cadmium	**0.014**	**0.001**	**1.0**
Chromium	**0.393**	**0.001**	**5.0**
Lead	**0.467**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.748**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 5	Date Reported:	07-18-05
Laboratory Number:	33657	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-18-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.189**	**0.001**	**5.0**
Barium	**7.36**	**0.001**	**100**
Cadmium	**0.011**	**0.001**	**1.0**
Chromium	**0.178**	**0.001**	**5.0**
Lead	**0.328**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.564**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 1	Date Reported:	07-19-05
Laboratory Number:	33658	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-19-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.149**	**0.001**	**5.0**
Barium	**38.9**	**0.001**	**100**
Cadmium	**0.017**	**0.001**	**1.0**
Chromium	**0.348**	**0.001**	**5.0**
Lead	**0.717**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.568**	**0.001**	**1.0**
Silver	**0.001**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 2	Date Reported:	07-19-05
Laboratory Number:	33659	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-19-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.136**	**0.001**	**5.0**
Barium	**40.6**	**0.001**	**100**
Cadmium	**0.018**	**0.001**	**1.0**
Chromium	**0.316**	**0.001**	**5.0**
Lead	**0.860**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.643**	**0.001**	**1.0**
Silver	**0.001**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 3	Date Reported:	07-19-05
Laboratory Number:	33660	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-19-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.132**	**0.001**	**5.0**
Barium	**40.4**	**0.001**	**100**
Cadmium	**0.018**	**0.001**	**1.0**
Chromium	**0.464**	**0.001**	**5.0**
Lead	**0.645**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.688**	**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: **Crouch Mesa Landfarm.**

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TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 4	Date Reported:	07-19-05
Laboratory Number:	33661	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-19-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.112**	**0.001**	**5.0**
Barium	**39.6**	**0.001**	**100**
Cadmium	**0.016**	**0.001**	**1.0**
Chromium	**0.238**	**0.001**	**5.0**
Lead	**0.446**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.611**	**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: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 5	Date Reported:	07-19-05
Laboratory Number:	33662	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Analyzed:	07-19-05
Preservative:	Cool	Date Digested:	07-17-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.124**	**0.001**	**5.0**
Barium	**40.8**	**0.001**	**100**
Cadmium	**0.017**	**0.001**	**1.0**
Chromium	**0.250**	**0.001**	**5.0**
Lead	**0.539**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.655**	**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: **Crouch Mesa Landfarm.**

Analyst

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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:	07-19 TM QA/AC	Date Reported:	07-19-05
Laboratory Number:	33659	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	07-19-05
Condition:	N/A	Date Digested:	07-17-05

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.149	0.147	1.3%	0% - 30%
Barium	ND	ND	0.001	38.9	39.0	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.017	0.017	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.348	0.350	0.6%	0% - 30%
Lead	ND	ND	0.001	0.717	0.715	0.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.568	0.571	0.5%	0% - 30%
Silver	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.149	0.647	99.7%	80% - 120%
Barium	0.500	38.9	39.4	100.0%	80% - 120%
Cadmium	0.500	0.017	0.516	99.8%	80% - 120%
Chromium	0.500	0.348	0.847	99.9%	80% - 120%
Lead	0.500	0.717	1.21	99.4%	80% - 120%
Mercury	0.500	ND	0.500	100.0%	80% - 120%
Selenium	0.500	0.568	1.06	99.3%	80% - 120%
Silver	0.500	0.001	0.501	100.0%	80% - 120%

ND - Parameter not detected at the stated detection limit.

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

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

Comments: **QA/QC for samples 33658 - 33662.**

Analyst

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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:	07-18 TM QA/AC	Date Reported:	07-18-05
Laboratory Number:	33648	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	07-18-05
Condition:	N/A	Date Digested:	07-17-05

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.130	0.128	1.5%	0% - 30%
Barium	ND	ND	0.001	39.9	40.0	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.287	0.290	1.0%	0% - 30%
Lead	ND	ND	0.001	0.524	0.525	0.2%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.755	0.756	0.1%	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	0.130	0.629	99.8%	80% - 120%
Barium	0.500	39.9	40.3	99.8%	80% - 120%
Cadmium	0.500	0.013	0.512	99.8%	80% - 120%
Chromium	0.500	0.287	0.786	99.9%	80% - 120%
Lead	0.500	0.524	1.020	99.6%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	0.755	1.250	99.6%	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 33648 - 33657.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	A	Date Reported:	07-19-05
Laboratory Number:	33648	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.25**	s.u.		
Conductivity @ 25° C	**333**	umhos/cm		
Total Dissolved Solids @ 180C	**166**	mg/L		
Total Dissolved Solids (Calc)	**172**	mg/L		
SAR	**2.3**	ratio		
Total Alkalinity as CaCO3	**29.6**	mg/L		
Total Hardness as CaCO3	**39.9**	mg/L		
Bicarbonate as HCO3	**29.6**	mg/L	0.49	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	**1.0**	mg/L	0.02	meq/L
Nitrite Nitrogen	**0.002**	mg/L	0.00	meq/L
Chloride	**37.6**	mg/L	1.06	meq/L
Fluoride	**0.01**	mg/L	0.00	meq/L
Phosphate	**0.7**	mg/L	0.02	meq/L
Sulfate	**57.0**	mg/L	1.19	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**14.1**	mg/L	0.70	meq/L
Magnesium	**4.69**	mg/L	0.39	meq/L
Potassium	**0.06**	mg/L	0.00	meq/L
Sodium	**38.7**	mg/L	1.68	meq/L
Cations			2.77	meq/L
Anions			2.77	meq/L
Cation/Anion Difference			**0.08%**	

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

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

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CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	B	Date Reported:	07-19-05
Laboratory Number:	33649	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.21**	s.u.		
Conductivity @ 25° C	**166**	umhos/cm		
Total Dissolved Solids @ 180C	**102**	mg/L		
Total Dissolved Solids (Calc)	**104**	mg/L		
SAR	**2.0**	ratio		
Total Alkalinity as CaCO3	**37.2**	mg/L		
Total Hardness as CaCO3	**19.0**	mg/L		
Bicarbonate as HCO3	**37.2**	mg/L	0.61	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	**0.005**	mg/L	0.00	meq/L
Chloride	**13.6**	mg/L	0.38	meq/L
Fluoride	**0.79**	mg/L	0.04	meq/L
Phosphate	**1.3**	mg/L	0.04	meq/L
Sulfate	**30.5**	mg/L	0.64	meq/L
Iron	**0.008**	mg/L	0.00	meq/L
Calcium	**6.08**	mg/L	0.30	meq/L
Magnesium	**3.80**	mg/L	0.31	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**25.3**	mg/L	1.10	meq/L
Cations			1.72	meq/L
Anions			1.72	meq/L
Cation/Anion Difference			**0.04%**	

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

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	C	Date Reported:	07-19-05
Laboratory Number:	33650	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.56**	s.u.		
Conductivity @ 25° C	**392**	umhos/cm		
Total Dissolved Solids @ 180C	**242**	mg/L		
Total Dissolved Solids (Calc)	**249**	mg/L		
SAR	**4.9**	ratio		
Total Alkalinity as CaCO3	**33.6**	mg/L		
Total Hardness as CaCO3	**29.3**	mg/L		
Bicarbonate as HCO3	**33.6**	mg/L	0.55	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	**1.2**	mg/L	0.02	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**60.8**	mg/L	1.72	meq/L
Fluoride	**2.06**	mg/L	0.11	meq/L
Phosphate	**0.7**	mg/L	0.02	meq/L
Sulfate	**76.5**	mg/L	1.59	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**10.1**	mg/L	0.50	meq/L
Magnesium	**4.10**	mg/L	0.34	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**72.8**	mg/L	3.17	meq/L
Cations			4.01	meq/L
Anions			4.01	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.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	D	Date Reported:	07-19-05
Laboratory Number:	33651	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.39**	s.u.		
Conductivity @ 25° C	**510**	umhos/cm		
Total Dissolved Solids @ 180C	**307**	mg/L		
Total Dissolved Solids (Calc)	**324**	mg/L		
SAR	**5.5**	ratio		
Total Alkalinity as CaCO3	**28.4**	mg/L		
Total Hardness as CaCO3	**31.2**	mg/L		
Bicarbonate as HCO3	**28.4**	mg/L	0.47	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.9**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.001**	mg/L	0.00	meq/L
Chloride	**52.0**	mg/L	1.47	meq/L
Fluoride	**1.81**	mg/L	0.10	meq/L
Phosphate	**0.6**	mg/L	0.02	meq/L
Sulfate	**142**	mg/L	2.96	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**12.5**	mg/L	0.62	meq/L
Magnesium	**4.99**	mg/L	0.41	meq/L
Potassium	**0.21**	mg/L	0.01	meq/L
Sodium	**91.5**	mg/L	3.98	meq/L
Cations			5.02	meq/L
Anions			5.02	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.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	E	Date Reported:	07-19-05
Laboratory Number:	33652	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.06**	s.u.		
Conductivity @ 25° C	**486**	umhos/cm		
Total Dissolved Solids @ 180C	**290**	mg/L		
Total Dissolved Solids (Calc)	**312**	mg/L		
SAR	**5.8**	ratio		
Total Alkalinity as CaCO3	**28.0**	mg/L		
Total Hardness as CaCO3	**34.9**	mg/L		
Bicarbonate as HCO3	**28.0**	mg/L	0.46	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	**0.8**	mg/L	0.01	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**30.4**	mg/L	0.86	meq/L
Fluoride	**0.68**	mg/L	0.04	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**160**	mg/L	3.33	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**12.8**	mg/L	0.64	meq/L
Magnesium	**2.93**	mg/L	0.24	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**87.7**	mg/L	3.81	meq/L
Cations			4.69	meq/L
Anions			4.70	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.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Crouch Mesa Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 1	Date Reported:	07-19-05
Laboratory Number:	33653	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.22**	s.u.		
Conductivity @ 25° C	**649**	umhos/cm		
Total Dissolved Solids @ 180C	**404**	mg/L		
Total Dissolved Solids (Calc)	**412**	mg/L		
SAR	**7.0**	ratio		
Total Alkalinity as CaCO3	**30.8**	mg/L		
Total Hardness as CaCO3	**39.6**	mg/L		
Bicarbonate as HCO3	**30.8**	mg/L	0.50	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**88.0**	mg/L	2.48	meq/L
Fluoride	**0.94**	mg/L	0.05	meq/L
Phosphate	**0.1**	mg/L	0.00	meq/L
Sulfate	**163**	mg/L	3.39	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**13.6**	mg/L	0.68	meq/L
Magnesium	**5.56**	mg/L	0.46	meq/L
Potassium	**0.05**	mg/L	0.00	meq/L
Sodium	**122**	mg/L	5.31	meq/L
Cations			6.44	meq/L
Anions			6.44	meq/L
Cation/Anion Difference			**0.14%**	

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

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 2	Date Reported:	07-19-05
Laboratory Number:	33654	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**9.09**	s.u.		
Conductivity @ 25° C	**374**	umhos/cm		
Total Dissolved Solids @ 180C	**238**	mg/L		
Total Dissolved Solids (Calc)	**239**	mg/L		
SAR	**5.0**	ratio		
Total Alkalinity as CaCO3	**73.2**	mg/L		
Total Hardness as CaCO3	**23.6**	mg/L		
Bicarbonate as HCO3	**73.2**	mg/L	1.20	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**6.0**	mg/L	0.17	meq/L
Fluoride	**0.82**	mg/L	0.04	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**108**	mg/L	2.25	meq/L
Iron	**0.058**	mg/L	0.00	meq/L
Calcium	**8.00**	mg/L	0.40	meq/L
Magnesium	**3.60**	mg/L	0.30	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**68.1**	mg/L	2.96	meq/L
Cations			3.66	meq/L
Anions			3.66	meq/L
Cation/Anion Difference			**0.02%**	

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

Comments: **Crouch Mesa Landfarm.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 3	Date Reported:	07-19-05
Laboratory Number:	33655	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.63**	s.u.		
Conductivity @ 25° C	**521**	umhos/cm		
Total Dissolved Solids @ 180C	**330**	mg/L		
Total Dissolved Solids (Calc)	**330**	mg/L		
SAR	**6.8**	ratio		
Total Alkalinity as CaCO3	**32.4**	mg/L		
Total Hardness as CaCO3	**27.7**	mg/L		
Bicarbonate as HCO3	**32.4**	mg/L	0.53	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	**0.7**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.002**	mg/L	0.00	meq/L
Chloride	**45.2**	mg/L	1.28	meq/L
Fluoride	**2.16**	mg/L	0.11	meq/L
Phosphate	**0.5**	mg/L	0.02	meq/L
Sulfate	**150**	mg/L	3.12	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**9.60**	mg/L	0.48	meq/L
Magnesium	**3.70**	mg/L	0.30	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**98.5**	mg/L	4.28	meq/L
Cations			5.07	meq/L
Anions			5.07	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.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Crouch Mesa Landfarm.**

Christine Walters
Analyst

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 4	Date Reported:	07-19-05
Laboratory Number:	33656	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.47**	s.u.		
Conductivity @ 25° C	**282**	umhos/cm		
Total Dissolved Solids @ 180C	**192**	mg/L		
Total Dissolved Solids (Calc)	**179**	mg/L		
SAR	**3.0**	ratio		
Total Alkalinity as CaCO3	**34.0**	mg/L		
Total Hardness as CaCO3	**31.5**	mg/L		
Bicarbonate as HCO3	**34.0**	mg/L	0.56	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	**<0.001**	mg/L	0.00	meq/L
Chloride	**47.2**	mg/L	1.33	meq/L
Fluoride	**0.94**	mg/L	0.05	meq/L
Phosphate	**1.0**	mg/L	0.03	meq/L
Sulfate	**47.0**	mg/L	0.98	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**10.7**	mg/L	0.53	meq/L
Magnesium	**4.69**	mg/L	0.39	meq/L
Potassium	**0.18**	mg/L	0.00	meq/L
Sodium	**46.7**	mg/L	2.03	meq/L
Cations			2.96	meq/L
Anions			2.95	meq/L
Cation/Anion Difference			**0.04%**	

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

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	F - 5	Date Reported:	07-19-05
Laboratory Number:	33657	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-17-05
Preservative:	Cool	Date Analyzed:	07-18-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.91**	s.u.		
Conductivity @ 25° C	**1,540**	umhos/cm		
Total Dissolved Solids @ 180C	**954**	mg/L		
Total Dissolved Solids (Calc)	**962**	mg/L		
SAR	**3.5**	ratio		
Total Alkalinity as CaCO3	**28.8**	mg/L		
Total Hardness as CaCO3	**294**	mg/L		
Bicarbonate as HCO3	**28.8**	mg/L	0.47	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.006**	mg/L	0.00	meq/L
Chloride	**63.2**	mg/L	1.78	meq/L
Fluoride	**0.85**	mg/L	0.04	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**588**	mg/L	12.24	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**106**	mg/L	5.27	meq/L
Magnesium	**29.8**	mg/L	2.45	meq/L
Potassium	**0.13**	mg/L	0.00	meq/L
Sodium	**157**	mg/L	6.83	meq/L
Cations			14.55	meq/L
Anions			14.54	meq/L
Cation/Anion Difference			**0.09%**	

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

Comments: **Crouch Mesa Landfarm.**

Christine M Walker
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 1	Date Reported:	07-19-05
Laboratory Number:	33658	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-18-05
Preservative:	Cool	Date Analyzed:	07-19-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.04**	s.u.		
Conductivity @ 25° C	**1,090**	umhos/cm		
Total Dissolved Solids @ 180C	**694**	mg/L		
Total Dissolved Solids (Calc)	**696**	mg/L		
SAR	**4.1**	ratio		
Total Alkalinity as CaCO3	**31.6**	mg/L		
Total Hardness as CaCO3	**187**	mg/L		
Bicarbonate as HCO3	**31.6**	mg/L	0.52	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.2**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.004**	mg/L	0.00	meq/L
Chloride	**44.0**	mg/L	1.24	meq/L
Fluoride	**0.75**	mg/L	0.04	meq/L
Phosphate	**1.7**	mg/L	0.05	meq/L
Sulfate	**410**	mg/L	8.54	meq/L
Iron	**0.005**	mg/L	0.00	meq/L
Calcium	**70.9**	mg/L	3.54	meq/L
Magnesium	**9.47**	mg/L	0.78	meq/L
Potassium	**0.85**	mg/L	0.02	meq/L
Sodium	**139**	mg/L	6.05	meq/L
Cations			10.38	meq/L
Anions			10.39	meq/L
Cation/Anion Difference			**0.07%**	

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

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 2	Date Reported:	07-19-05
Laboratory Number:	33659	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-18-05
Preservative:	Cool	Date Analyzed:	07-19-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.26**	s.u.		
Conductivity @ 25° C	**264**	umhos/cm		
Total Dissolved Solids @ 180C	**170**	mg/L		
Total Dissolved Solids (Calc)	**167**	mg/L		
SAR	**1.9**	ratio		
Total Alkalinity as CaCO3	**25.6**	mg/L		
Total Hardness as CaCO3	**38.0**	mg/L		
Bicarbonate as HCO3	**25.6**	mg/L	0.42	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	**0.013**	mg/L	0.00	meq/L
Chloride	**29.6**	mg/L	0.84	meq/L
Fluoride	**0.27**	mg/L	0.01	meq/L
Phosphate	**4.1**	mg/L	0.13	meq/L
Sulfate	**62.5**	mg/L	1.30	meq/L
Iron	**0.067**	mg/L	0.00	meq/L
Calcium	**12.2**	mg/L	0.61	meq/L
Magnesium	**7.60**	mg/L	0.63	meq/L
Potassium	**0.63**	mg/L	0.02	meq/L
Sodium	**33.7**	mg/L	1.47	meq/L
Cations			2.72	meq/L
Anions			2.72	meq/L
Cation/Anion Difference			**0.04%**	

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

Comments: **Crouch Mesa Landfarm.**

Analyst

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 3	Date Reported:	07-19-05
Laboratory Number:	33660	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-18-05
Preservative:	Cool	Date Analyzed:	07-19-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.19**	s.u.		
Conductivity @ 25° C	**1,020**	umhos/cm		
Total Dissolved Solids @ 180C	**652**	mg/L		
Total Dissolved Solids (Calc)	**650**	mg/L		
SAR	**7.2**	ratio		
Total Alkalinity as CaCO3	**18.4**	mg/L		
Total Hardness as CaCO3	**95.3**	mg/L		
Bicarbonate as HCO3	**18.4**	mg/L	0.30	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.001**	mg/L	0.00	meq/L
Chloride	**37.2**	mg/L	1.05	meq/L
Fluoride	**0.71**	mg/L	0.04	meq/L
Phosphate	**0.6**	mg/L	0.02	meq/L
Sulfate	**390**	mg/L	8.12	meq/L
Iron	**0.003**	mg/L	0.00	meq/L
Calcium	**36.6**	mg/L	1.83	meq/L
Magnesium	**3.71**	mg/L	0.31	meq/L
Potassium	**0.28**	mg/L	0.01	meq/L
Sodium	**170**	mg/L	7.40	meq/L
Cations			9.53	meq/L
Anions			9.53	meq/L
Cation/Anion Difference			**0.05%**	

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

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 4	Date Reported:	07-19-05
Laboratory Number:	33661	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-18-05
Preservative:	Cool	Date Analyzed:	07-19-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.74**	s.u.		
Conductivity @ 25° C	**264**	umhos/cm		
Total Dissolved Solids @ 180C	**161**	mg/L		
Total Dissolved Solids (Calc)	**164**	mg/L		
SAR	**2.3**	ratio		
Total Alkalinity as CaCO3	**26.8**	mg/L		
Total Hardness as CaCO3	**34.6**	mg/L		
Bicarbonate as HCO3	**26.8**	mg/L	0.44	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	**2.1**	mg/L	0.03	meq/L
Nitrite Nitrogen	**0.066**	mg/L	0.00	meq/L
Chloride	**29.6**	mg/L	0.84	meq/L
Fluoride	**0.54**	mg/L	0.03	meq/L
Phosphate	**0.6**	mg/L	0.02	meq/L
Sulfate	**61.0**	mg/L	1.27	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**11.8**	mg/L	0.59	meq/L
Magnesium	**4.98**	mg/L	0.41	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**37.4**	mg/L	1.63	meq/L
Cations			2.63	meq/L
Anions			2.63	meq/L
Cation/Anion Difference			**0.06%**	

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

Comments: **Crouch Mesa Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	G - 5	Date Reported:	07-19-05
Laboratory Number:	33662	Date Sampled:	07-14-05
Chain of Custody:	14285	Date Received:	07-14-05
Sample Matrix:	Soil	Date Extracted:	07-18-05
Preservative:	Cool	Date Analyzed:	07-19-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.37**	s.u.		
Conductivity @ 25° C	**234**	umhos/cm		
Total Dissolved Solids @ 180C	**126**	mg/L		
Total Dissolved Solids (Calc)	**125**	mg/L		
SAR	**3.7**	ratio		
Total Alkalinity as CaCO3	**35.6**	mg/L		
Total Hardness as CaCO3	**18.4**	mg/L		
Bicarbonate as HCO3	**35.6**	mg/L	0.58	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	**9.5**	mg/L	0.15	meq/L
Nitrite Nitrogen	**0.015**	mg/L	0.00	meq/L
Chloride	**16.0**	mg/L	0.45	meq/L
Fluoride	**0.95**	mg/L	0.05	meq/L
Phosphate	**2.9**	mg/L	0.09	meq/L
Sulfate	**30.3**	mg/L	0.63	meq/L
Iron	**0.021**	mg/L	0.00	meq/L
Calcium	**7.36**	mg/L	0.37	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**36.6**	mg/L	1.59	meq/L
Cations			1.96	meq/L
Anions			1.96	meq/L
Cation/Anion Difference			**0.04%**	

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

Comments: **Crouch Mesa Landfarm.**

Christine M Walters
Analyst

Review

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CHAIN OF CUSTODY RECORD

14285
Page 1 of 2

Client / Project Name	Project Location
Phil Nobis	Crouch Mesa Landform

Sampler:	Client No.
Sterns Enterprises	04184-001

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 5188 8015	BTEX	RCRA total metals	cations + anions	Remarks
A	7/14	9:00 AM	33648	Soil	2					
B	7/14		33649		2					
C	7/14		33650		2					
D	7/14		33651		2					
E	7/14		33652		2					
F-1	7/14		33653		2					
F-2	7/14		33654		2					
F-3	7/14		33655		2					
F-4	7/14		33656		2					
F-5	7/14		33657		2					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7-15-05	11:15		7-14-05	11:15
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

PO Box 566
Bloomfield 87413
860-5872

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

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

CHAIN OF CUSTODY RECORD

~~14286~~ 14285 page 2 of 2

Client / Project Name	Project Location
Phil Nobis	Crouch Mesa Landfarm
Sampler: Sterns Enterprises	Client No. 04184-001

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015 TPH	8020 BTEX	Total RCRA metals cations + Anions	Remarks
G-1	7/14		33658	soil	2	—	—	—	
G-2	7/14		33659		2	—	—	—	
G-3	7/14		33660		2	—	—	—	
G-4	7/14		33661		2	—	—	—	
G-5	7/14	10:15	33662		2	—	—	—	
P-1	7/14	10:20	33663		1	✓	✓		
P-2	7/14	10:20	33664		1	✓	✓		

ANALYSIS / PARAMETERS

5784

ENTERED JUL 25 2005

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7-15-05	11:15		7-14-05	11:15
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

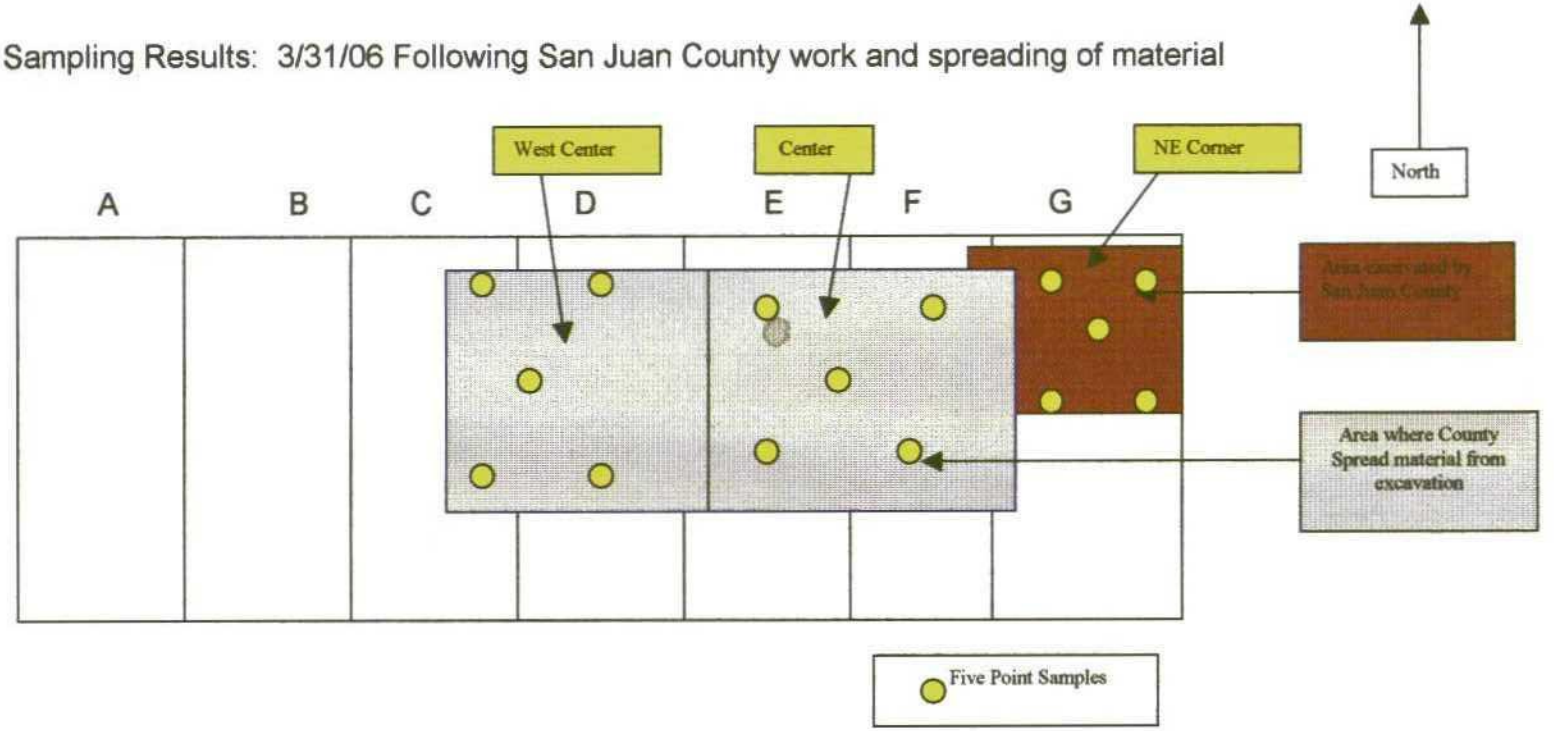
5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

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

Exhibit 2

Final Closure
Tierra Landfarm Permit # NM-01-0010A
NW/4 SE/4 of Section 2, Township 29 North, Range 12 West
San Juan County, New Mexico

Sampling Results: 3/31/06 Following San Juan County work and spreading of material



Following excavation of a pocket of contaminated soil shown in brown above, the material was spread in thin lifts upon the remainder of the area shown in gray. On 3/31/06, 3-five point samples were taken in the presents of Denny Foust OCD Representative from Aztec, NM. The samples were taken to Envirotech Labs where they were analyzed for TPH and BTEX.

Results:	North East Corner	West Center	Center
TPH	102 mg/Kg	584 mg/Kg	428 mg/Kg
BTEX	66.8 ug/Kg	57.8 ug/Kg	98.2 ug/Kg
Benzene	ND	ND	ND

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 6, 2006

Mr. Phill Nobis
37 CR 5285
Bloomfield, NM 87413

Phone: (505) 632-1404

Client No.: 04184-001

Dear Mr. Nobis,

Enclosed are the analytical results for the samples collected from the location designated as "TECI Landfarm". Three soil samples were collected on 3/31/06, and received by the Envirotech laboratory on 3/31/06 for BTEX per USEPA Method 8021 and Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015.

The samples were documented on Envirotech Chain of Custody No. 15774 and assigned Laboratory Nos. 36671 (NE Corner), 36672 (West Center) and 36673 (Center) for tracking purposes.

The samples were analyzed on 4/05/06 using USEPA or equivalent methods.

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

Respectfully submitted,
Envirotech, Inc.

Christine M Walters

Christine M. Walters
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/Nobis.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	NE Corner	Date Reported:	04-05-06
Laboratory Number:	36671	Date Sampled:	03-31-06
Chain of Custody No:	15774	Date Received:	03-31-06
Sample Matrix:	Soil	Date Extracted:	04-03-06
Preservative:	Cool	Date Analyzed:	04-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**102**	**0.1**
Total Petroleum Hydrocarbons	**102**	**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: **TECI Landfarm.**

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:	Phil Nobis	Project #:	04184-001
Sample ID:	West Center	Date Reported:	04-05-06
Laboratory Number:	36672	Date Sampled:	03-31-06
Chain of Custody No:	15774	Date Received:	03-31-06
Sample Matrix:	Soil	Date Extracted:	04-03-06
Preservative:	Cool	Date Analyzed:	04-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**584**	**0.1**
Total Petroleum Hydrocarbons	**584**	**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: **TECI 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:	Phil Nobis	Project #:	04184-001
Sample ID:	Center	Date Reported:	04-05-06
Laboratory Number:	36673	Date Sampled:	03-31-06
Chain of Custody No:	15774	Date Received:	03-31-06
Sample Matrix:	Soil	Date Extracted:	04-03-06
Preservative:	Cool	Date Analyzed:	04-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.3**	**0.2**
Diesel Range (C10 - C28)	**427**	**0.1**
Total Petroleum Hydrocarbons	**428**	**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: **TECI Landfarm.**

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:	04-05-06 QA/QC	Date Reported:	04-05-06
Laboratory Number:	36671	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-05-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9753E+002	9.9853E+002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	9.9541E+002	9.9740E+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	**102**	**104**	**2.6%**	**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	**102**	**250**	**351**	**99.9%**	**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 36671 - 36673, 36688 - 36689, 36692.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	NE Corner	Date Reported:	04-05-06
Laboratory Number:	36671	Date Sampled:	03-31-06
Chain of Custody:	15774	Date Received:	03-31-06
Sample Matrix:	Soil	Date Analyzed:	04-05-06
Preservative:	Cool	Date Extracted:	04-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**12.2**	**1.7**
Ethylbenzene	**6.2**	**1.5**
p,m-Xylene	**35.8**	**2.2**
o-Xylene	**12.6**	**1.0**
Total BTEX	**66.8**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **TECI Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	West Center	Date Reported:	04-05-06
Laboratory Number:	36672	Date Sampled:	03-31-06
Chain of Custody:	15774	Date Received:	03-31-06
Sample Matrix:	Soil	Date Analyzed:	04-05-06
Preservative:	Cool	Date Extracted:	04-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**14.8**	**1.7**
Ethylbenzene	**9.1**	**1.5**
p,m-Xylene	**24.1**	**2.2**
o-Xylene	**9.8**	**1.0**
Total BTEX	**57.8**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **TECI Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Phil Nobis	Project #:	04184-001
Sample ID:	Center	Date Reported:	04-05-06
Laboratory Number:	36673	Date Sampled:	03-31-06
Chain of Custody:	15774	Date Received:	03-31-06
Sample Matrix:	Soil	Date Analyzed:	04-05-06
Preservative:	Cool	Date Extracted:	04-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**20.0**	**1.7**
Ethylbenzene	**9.2**	**1.5**
p,m-Xylene	**63.7**	**2.2**
o-Xylene	**5.3**	**1.0**
Total BTEX	**98.2**	

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **TECI Landfarm.**

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:	04-05-BTEX QA/QC	Date Reported:	04-05-06
Laboratory Number:	36671	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-05-06
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	3.7688E+007	3.7764E+007	**0.2%**	**ND**	**0.2**
Toluene	3.8699E+007	3.8777E+007	**0.2%**	**ND**	**0.2**
Ethylbenzene	2.1950E+007	2.1994E+007	**0.2%**	**ND**	**0.2**
p,m-Xylene	6.7225E+007	6.7360E+007	**0.2%**	**ND**	**0.2**
o-Xylene	2.9914E+007	2.9974E+007	**0.2%**	**ND**	**0.1**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**ND**	**ND**	**0.0%**	**0 - 30%**	**1.8**
Toluene	**12.2**	**12.2**	**0.0%**	**0 - 30%**	**1.7**
Ethylbenzene	**6.2**	**6.2**	**0.0%**	**0 - 30%**	**1.5**
p,m-Xylene	**35.8**	**35.7**	**0.3%**	**0 - 30%**	**2.2**
o-Xylene	**12.6**	**12.6**	**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	**12.2**	**50.0**	**62.2**	**100.0%**	**46 - 148**
Ethylbenzene	**6.2**	**50.0**	**56.1**	**99.8%**	**32 - 160**
p,m-Xylene	**35.8**	**100**	**135**	**99.7%**	**46 - 148**
o-Xylene	**12.6**	**50.0**	**62.5**	**99.8%**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 36671 - 36673, 36688 - 36689, 36692.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

15774

Client / Project Name	Project Location
Phil Nobis	TECI Landfarm
Sampler:	**Client No.**
Phil Nobis	04184-001

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Remarks
NE Corner	3/31/06	11:25	36671	Soil	1	✓	✓	
West Center	"	1155	36672	"	1	✓	✓	
Center	"	1145	36673	"	1	✓	✓	

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	3/31/06	1210	Christine M Walter	3/31/06	1210
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

632-0463
860-5872

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	✓		

NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor

Joanna Prukop
Cabinet Secretary
Acting Director
Oil Conservation Division

May 18, 2004

Mr. James Hatcher
JFJ Landfarm L.L.C.
P.O. Box 2043
Farmington, NM 87499

RE: Approval To Recycle Soil
JFJ Landfarm L.L.C.
NW/4 SE/4, Section 2, Township 29 North, Range 12 West, NMPM,
San Juan County, New Mexico

Dear Mr. Hatcher:

The New Mexico Oil Conservation Division (OCD) has received JFJ Landfarm L.L.C. (JFJ) letter dated April 26, 2004 and the E-mail dated May 18, 2004 from Darrin Church with Tierra acknowledging the removal of the remediated soil from Tierra to JFJ Landfarm. The OCD has reviewed these letters and the analytical data concerning remediated soils within compost piles T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11 and T12 (material pushed up from Tierra Environmental Company, Inc. portion of the landfarm). JFJ's request to recycle soil from Compost piles T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11 and T12 are hereby approved with the following recycling uses:

1. Use remediated soils to solidify incoming tank bottom sludge. And
2. Use remediated soils to recondition the berms within the JFJ facility.

Application of these soils in the approved project list above must not result in run-off into any waters of the U.S. If JFJ wants to move the soils from these compost piles for any other use than those approved here separate OCD authorization must be granted. Please be advised that OCD approval does not relieve JFJ of liability should their operation result in pollution of the ground water, surface water or the environment. In addition, OCD approval does not relieve JFJ of the responsibility for compliance with other federal state and/or local regulations.

If you have any further questions please do not hesitate to contact me at (505) 476-3488.

Sincerely,

Martyne J. Kieling
Environmental Geologist

xc:
Aztec OCD Office
Philip C. Nobis, Tierra Environmental Company, Inc., PO Box 1812, Bloomfield, New Mexico 87413

Kieling, Martyne

From: IEISOIL@aol.com
Sent: Tuesday, May 18, 2004 1:02 PM
To: MKieling@state.nm.us
Cc: dfoust@state.nm.us
Subject: Fwd: Landfarm Backfill

Martyne / Dennie

This is the emai from Tierra Environmental that you requested.
Thanks
Jake Hatcher
IEI Soil
JFJ Landfarm

Kieling, Martyne

From: Darrin Church [darrin@instreem.net]
Sent: Tuesday, May 18, 2004 10:09 AM
To: ieisoil@aol.com
Subject: Landfarm Backfill

Jake,

Tierra Environmental Company is aware that you will be transferring clean backfill from the portion of the landfarm currently owned by Tierra to your adjacent facility.

Please let me know if you need any more documentation.

Sincerely,

Darrin Church
Tierra Environmental Company

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington, NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#81 CR 3150
Aztec, NM 87410

April 26, 2004

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Reclaimed soil

Attn: Martyne Kieling

Dear Martyne:

Recent analytical results show that several piles containing hydrocarbon impacted soil have reached acceptable levels as required by the NMOCD.

The following biopiles have reached the acceptable levels: T1, T2, T4, T6, T7, T8, T9, T10, T11, T12. All of these biopiles contain material pushed up off Tierra's portion of the landfarm.

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge and material to recondition existing berms within the JFJ Facility.

Please find the enclosed analytical reports for these biopiles.

Thanks in advance

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J Landfarms LLC)

Cc: Denny Foust

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 2	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**3.5**	**0.2**
Diesel Range (C10 - C28)	**70.0**	**0.1**
Total Petroleum Hydrocarbons	**73.5**	**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: **Tierra Cell 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

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 4	Date Reported:	04-09-04
Laboratory Number:	28328	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.0**	**0.2**
Diesel Range (C10 - C28)	**68.7**	**0.1**
Total Petroleum Hydrocarbons	**69.7**	**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: **Tierra Cell 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:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 6	Date Reported:	04-09-04
Laboratory Number:	28329	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**23.5**	**0.1**
Total Petroleum Hydrocarbons	**23.5**	**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: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 8	Date Reported:	04-09-04
Laboratory Number:	28330	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**29.6**	**0.1**
Total Petroleum Hydrocarbons	**29.6**	**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: **Tierra Cell 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:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 10	Date Reported:	04-09-04
Laboratory Number:	28331	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**14.2**	**0.1**
Total Petroleum Hydrocarbons	**14.2**	**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: **Tierra Cell 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:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 12	Date Reported:	04-09-04
Laboratory Number:	28332	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**37.5**	**0.1**
Total Petroleum Hydrocarbons	**37.5**	**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: **Tierra Cell 5-Pt. Composite.**

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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:	04-09-TPH QA/QC	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-09-04
Condition:	N/A	Analysis Requested:	TPH

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

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**3.5**	**3.4**	**2.9%**	**0 - 30%**
Diesel Range C10 - C28	**70.0**	**69.8**	**0.3%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**3.5**	**250**	**253**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**70.0**	**250**	**319**	**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 28327 - 28334.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 2	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**37.6**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**48.9**	**2.2**
o-Xylene	**66.5**	**1.0**
Total BTEX	**153**	

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: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 4	Date Reported:	04-09-04
Laboratory Number:	28328	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**71.1**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**22.5**	**2.2**
o-Xylene	**36.0**	**1.0**
Total BTEX	**130**	

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: **Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 6	Date Reported:	04-09-04
Laboratory Number:	28329	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**104**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**2.5**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**107**	

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: **Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 8	Date Reported:	04-09-04
Laboratory Number:	28330	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**38.5**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**38.5**	

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: **Tierra Cell 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 10	Date Reported:	04-09-04
Laboratory Number:	28331	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 12	Date Reported:	04-09-04
Laboratory Number:	28332	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

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

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

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

Comments: **Tierra Cell 5-Pt. Composite.**

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:	04-09-BTEX QA/QC	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-09-04
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	ND	ND	0.0%	0 - 30%	1.8
Toluene	37.6	36.8	2.1%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	48.9	50.8	3.9%	0 - 30%	2.2
o-Xylene	66.5	69.1	3.9%	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	37.6	50.0	87.5	99.9%	46 - 148
Ethylbenzene	ND	50.0	50.0	100.0%	32 - 160
p,m-Xylene	48.9	100	148	99.3%	46 - 148
o-Xylene	66.5	50.0	116	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28327 - 28332.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11991

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/IEI	TIERRA CELL	

Sampler: J.C. Blagg

Client No.: 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
PILE 2	4-7-04	0940	28327	SOIL	1	X	X					5-Pt. Composite
PILE 4	"	0950	28328	"	1	X	X					"
PILE 6	"	1000	28329	"	1	X	X					"
PILE 8	"	1010	28330	"	1	X	X					"
PILE 10	"	1025	28331	"	1	X	X					"
PILE 12	"	1035	28332	"	1	X	X					"
		PLEASE RUN BTEX ONLY IF TPH <100										

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. Blagg	4/7/04	1400	Allen P. Applin	4/7/04	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #1	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.1**	**0.2**
Diesel Range (C10 - C28)	**71.2**	**0.1**
Total Petroleum Hydrocarbons	**72.3**	**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: **JFJ - Tierra Cell 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

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #7	Date Reported:	04-03-04
Laboratory Number:	28279	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**26.0**	**0.1**
Total Petroleum Hydrocarbons	**26.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

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

Comments: **JFJ - Tierra Cell 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:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #9	Date Reported:	04-03-04
Laboratory Number:	28280	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**70.8**	**0.1**
Total Petroleum Hydrocarbons	**70.8**	**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: **JFJ - Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #11	Date Reported:	04-03-04
Laboratory Number:	28281	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**55.7**	**0.1**
Total Petroleum Hydrocarbons	**55.7**	**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: **JFJ - Tierra Cell 5-Pt. Composite.**

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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:	04-03-TPH QA/QC	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-03-04
Condition:	N/A	Analysis Requested:	TPH

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

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**1.1**	**1.1**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**71.2**	**70.9**	**0.4%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**1.1**	**250**	**251**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**71.2**	**250**	**321**	**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 28276 - 28283.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #1	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**6.2**	**1.8**
Toluene	**21.4**	**1.7**
Ethylbenzene	**43.9**	**1.5**
p,m-Xylene	**54.9**	**2.2**
o-Xylene	**34.3**	**1.0**
Total BTEX	**161**	

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: **JFJ - Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #3	Date Reported:	04-03-04
Laboratory Number:	28277	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**56.2**	**1.7**
Ethylbenzene	**40.3**	**1.5**
p,m-Xylene	**68.2**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**165**	

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: **JFJ - Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #5	Date Reported:	04-03-04
Laboratory Number:	28278	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**42.2**	**1.7**
Ethylbenzene	**38.3**	**1.5**
p,m-Xylene	**26.8**	**2.2**
o-Xylene	**18.1**	**1.0**
Total BTEX	**125**	

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: **JFJ - Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #7	Date Reported:	04-03-04
Laboratory Number:	28279	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**14.3**	**1.5**
p,m-Xylene	**18.3**	**2.2**
o-Xylene	**1.2**	**1.0**
Total BTEX	**33.8**	

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: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #9	Date Reported:	04-03-04
Laboratory Number:	28280	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**69.1**	**1.7**
Ethylbenzene	**21.2**	**1.5**
p,m-Xylene	**32.4**	**2.2**
o-Xylene	**24.0**	**1.0**
Total BTEX	**147**	

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: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #11	Date Reported:	04-03-04
Laboratory Number:	28281	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**39.1**	**1.5**
p,m-Xylene	**45.1**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**84.2**	

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: **JFJ - Tierra Cell 5-Pt. Composite.**

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:	04-03-BTEX QA/QC	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-03-04
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	6.2	6.2	0.0%	0 - 30%	1.8
Toluene	21.4	21.0	1.9%	0 - 30%	1.7
Ethylbenzene	43.9	43.0	2.1%	0 - 30%	1.5
p,m-Xylene	54.9	54.3	1.1%	0 - 30%	2.2
o-Xylene	34.3	34.0	0.9%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	6.2	50.0	56.1	99.8%	39 - 150
Toluene	21.4	50.0	71.3	99.9%	46 - 148
Ethylbenzene	43.9	50.0	93.7	99.8%	32 - 160
p,m-Xylene	54.9	100	154	99.3%	46 - 148
o-Xylene	34.3	50.0	84.2	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28276 - 28283.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11970

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/IEI	JFJ - TIERRA CELL	
Sampler: J. C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
PILE #1	3/31/04	1125	28276	SOIL	1	X	X					5-Pt. Composite
PILE #3	"	1135	28277	"	1	X	X					"
PILE #5	"	1146	28278	"	1	X	X					"
PILE #7	"	1156	28279	"	1	X	X					"
PILE #9	"	1208	28280	"	1	X	X					"
PILE #11	"	1217	28281	"	1	X	X					"
			PLEASE RUN BTEX ONLY IF TPH < 100									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	3/31/04	1239	Christine M Walters	3/31/04	12:39
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		