

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Sundry Notices and Reports on Wells

2005 DEC 12 PM 2 11

RECEIVED

070 FARMING

1. Type of Well

Oil Well

2. Name of Operator

Vulcan Minerals & Energy, c/o NMOCD Aztec District Office

3. Address & Phone No. of Operator

1000 Rio Brazos Road, Aztec, NM 87410 505-334-6178

4. Location of Well, Footage, Sec., T, R, M

1950' FSL and 660' FEL, Section 31, T-31-N, R-16-W

- 5. Lease Number
BIA #14-20-603-734
- 6. If Indian, All. or Tribe Name
Navajo
- 7. Unit Agreement Name
Horseshoe Gallup
- 8. Well Name & Number
HSGU #57
- 9. API Well No.
30-045-10126
- 10. Field and Pool
Horseshoe Gallup
- 11. County & State
San Juan County, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Notice of Intent

Subsequent Report

Final Abandonment

Type of Action

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

Other -

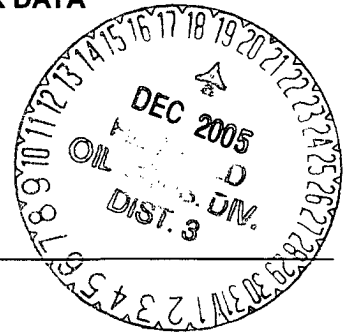
Change of Plans

New Construction

Non-Routine Fracturing

Water Shut off

Conversion to Injection



13. Describe Proposed or Completed Operations

Historical contamination discovered during clean up at the well bore after plugging was excavated, remediated to standards and returned to the excavation. See attached diagram and analysis.

This well was plugged and abandoned on June 30, 2005.

The surface remediation was completed on November 4, 2005 per the attached reports.

SIGNATURE William F. Clark Contractor December 2, 2005
William F. Clark, President, A-Plus Well Service, as contractor for reclamation fund

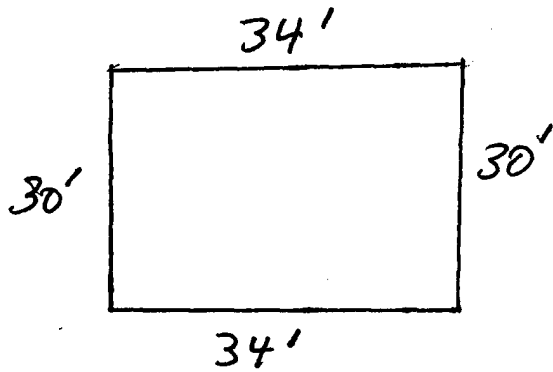
(This space for Federal or State Office use)

APPROVED BY Ray Sams Title Branch Chief Date 12/13/05
CONDITION OF APPROVAL, if any:

OPERATOR 1/16

Surface Remediation
Horseshoe Gallup Unit #57

I-31-31N-16W



- 7/27/05 Excavated 10' to bedrock.
- 9/2/05 Turn biopile and take 5 point sample.
- 10/12/05 Add fertilizer, turn biopile and take 5 point sample. Sample was below required remediation levels.
- 11/4/05 Backfill excavation

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	1 - West Wall	Date Reported:	08-01-05
Laboratory Number:	33889	Date Sampled:	07-27-05
Chain of Custody:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	25.7	2.1
Toluene	99.1	1.8
Ethylbenzene	261	1.7
p,m-Xylene	1.100	1.5
o-Xylene	347	2.2
Total BTEX	1,830	


ND - Parameter not detected at the stated detection limit.

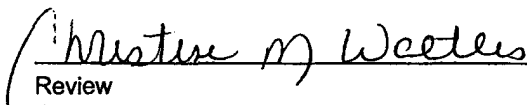
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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

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

Comments: Pit 57, Gallup Horseshoe


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:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	1 - West Wall	Date Reported:	08-01-05
Laboratory Number:	33889	Date Sampled:	07-27-05
Chain of Custody No:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

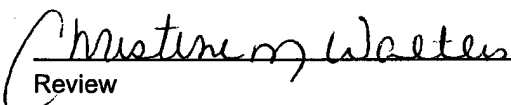
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	145	0.2
Diesel Range (C10 - C28)	782	0.1
Total Petroleum Hydrocarbons	927	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Pit 57, Gallup Horseshoe.**


Analyst

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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	2 - South Wall	Date Reported:	08-01-05
Laboratory Number:	33890	Date Sampled:	07-27-05
Chain of Custody:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	16.4	1.8
Ethylbenzene	63.5	1.7
p,m-Xylene	319	1.5
o-Xylene	114	2.2
Total BTEX	513	

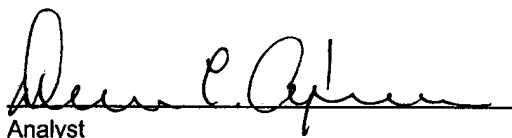
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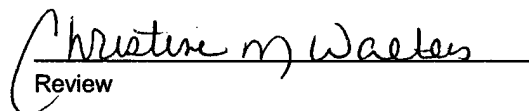
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

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

Comments: Pit 57, Gallup Horseshoe


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

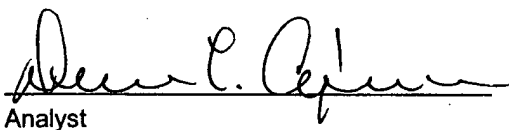
Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	2 - South Wall	Date Reported:	08-01-05
Laboratory Number:	33890	Date Sampled:	07-27-05
Chain of Custody No:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

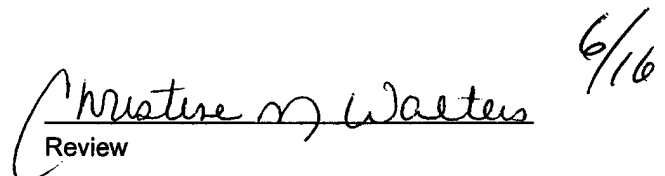
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	19.1	0.2
Diesel Range (C10 - C28)	351	0.1
Total Petroleum Hydrocarbons	370	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: Pit 57, Gallup Horseshoe.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	3 - North Wall	Date Reported:	08-01-05
Laboratory Number:	33891	Date Sampled:	07-27-05
Chain of Custody:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	8.3	1.8
Ethylbenzene	49.6	1.7
p,m-Xylene	232	1.5
o-Xylene	66.1	2.2
Total BTEX	356	

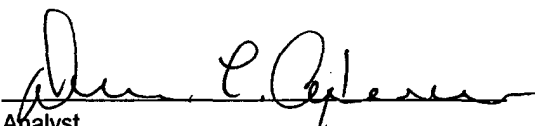
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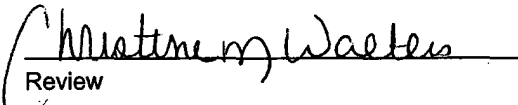
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

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

Comments: Pit 57, Gallup Horseshoe


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

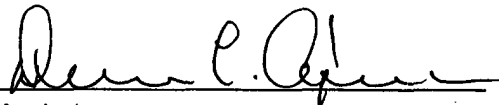
Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	3 - North Wall	Date Reported:	08-01-05
Laboratory Number:	33891	Date Sampled:	07-27-05
Chain of Custody No:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

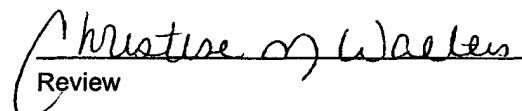
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	25.4	0.2
Diesel Range (C10 - C28)	239	0.1
Total Petroleum Hydrocarbons	264	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: Pit 57, Gallup Horseshoe.


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	4 - East Wall	Date Reported:	08-01-05
Laboratory Number:	33892	Date Sampled:	07-27-05
Chain of Custody:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Analyzed:	08-01-05
Preservative:	Cool	Date Extracted:	07-29-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	12.3	2.1
Toluene	89.6	1.8
Ethylbenzene	190	1.7
p,m-Xylene	1,020	1.5
o-Xylene	311	2.2
Total BTEX	1,620	

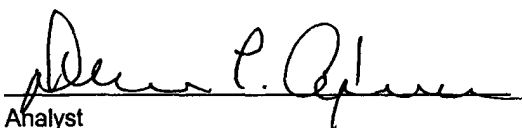
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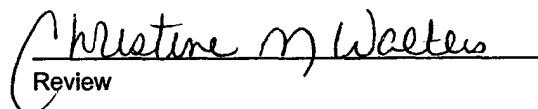
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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

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

Comments: Pit 57, Gallup Horseshoe


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

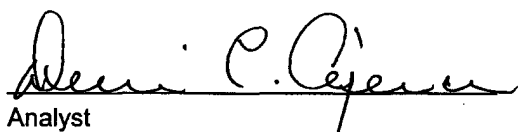
Client:	A-Plus (OCD)	Project #:	99042-011
Sample ID:	4 - East Wall	Date Reported:	08-01-05
Laboratory Number:	33892	Date Sampled:	07-27-05
Chain of Custody No:	14337	Date Received:	07-27-05
Sample Matrix:	Soil	Date Extracted:	07-29-05
Preservative:	Cool	Date Analyzed:	08-01-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

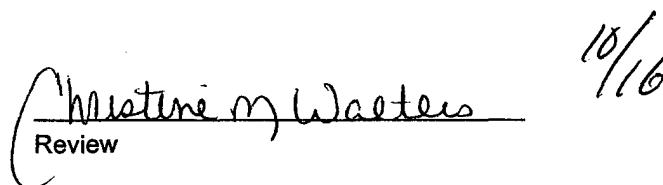
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	79.7	0.2
Diesel Range (C10 - C28)	855	0.1
Total Petroleum Hydrocarbons	935	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Pit 57, Gallup Horseshoe.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus - OCD	Project #:	99042-011
Sample ID:	3 - #57 West	Date Reported:	09-07-05
Laboratory Number:	34263	Date Sampled:	09-02-05
Chain of Custody:	14786	Date Received:	09-02-05
Sample Matrix:	Soil	Date Analyzed:	09-07-05
Preservative:	Cool	Date Extracted:	09-06-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	166	1.5
p,m-Xylene	138	2.2
o-Xylene	ND	1.0

Total BTEX 304 *OK pay*

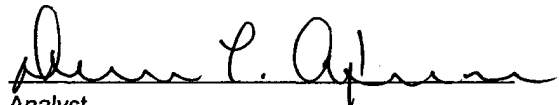
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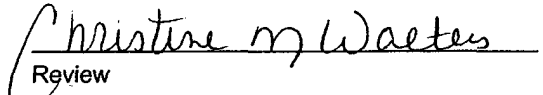
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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

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

Comments: Horseshoe Gallup. Biopile


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

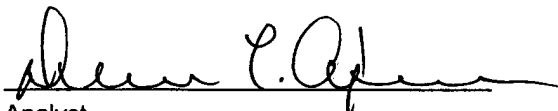
Client:	A-Plus - OCD	Project #:	99042-011
Sample ID:	3 - #57 West	Date Reported:	09-07-05
Laboratory Number:	34263	Date Sampled:	09-02-05
Chain of Custody No:	14786	Date Received:	09-02-05
Sample Matrix:	Soil	Date Extracted:	09-06-05
Preservative:	Cool	Date Analyzed:	09-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

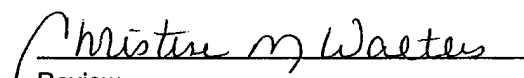
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	95.9	0.2
Diesel Range (C10 - C28)	1,220	0.1
Total Petroleum Hydrocarbons	1,320	0.2

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: **Horseshoe Gallup.**


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus - OCD	Project #:	99042-011
Sample ID:	4 - #57 East	Date Reported:	09-07-05
Laboratory Number:	34264	Date Sampled:	09-02-05
Chain of Custody:	14786	Date Received:	09-02-05
Sample Matrix:	Soil	Date Analyzed:	09-07-05
Preservative:	Cool	Date Extracted:	09-06-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	113	1.5
p,m-Xylene	ND	2.2
o-Xylene	41.1	1.0

Total BTEX

154 OK pay

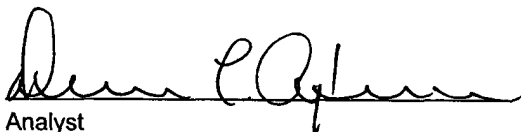
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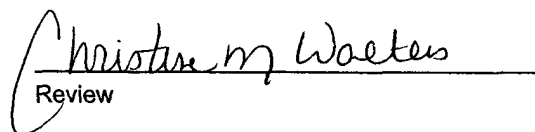
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

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

Comments: Horseshoe Gallup.


Analyst

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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons


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Sample ID:	4 - #57 East	Date Reported:	09-07-05
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Sample Matrix:	Soil	Date Extracted:	09-06-05
Preservative:	Cool	Date Analyzed:	09-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

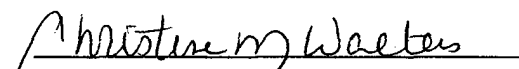
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	54.5	0.2
Diesel Range (C10 - C28)	969	0.1
Total Petroleum Hydrocarbons	1,020	0.2

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: **Horseshoe Gallup.**


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:	A Plus Well Service / OCD	Project #:	99042-011
Sample ID:	#4 Well #57	Date Reported:	10-13-05
Laboratory Number:	34661	Date Sampled:	10-12-05
Chain of Custody No:	14915	Date Received:	10-12-05
Sample Matrix:	Soil	Date Extracted:	10-13-05
Preservative:	Cool	Date Analyzed:	10-13-05
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)	542	0.1
Total Petroleum Hydrocarbons	542	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: **Gallup Horseshoe.**



Christine M. Walters
Analyst

Mary Bruce
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	A Plus Well Service / OCD	Project #:	99042-011
Sample ID:	#4 Well #57	Date Reported:	10-13-05
Laboratory Number:	34661	Date Sampled:	10-12-05
Chain of Custody No:	14915	Date Received:	10-12-05
Sample Matrix:	Soil	Date Extracted:	10-13-05
Preservative:	Cool	Date Analyzed:	10-13-05
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)	542	0.1
Total Petroleum Hydrocarbons	542	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: **Gallup Horseshoe.**

Christine M. Waeten
Analyst

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Review