

**NM1 - \_\_\_\_11\_\_\_\_**

# **APPROVALS**

**YEAR(S):**

**\_\_\_\_2013 - 2014\_\_\_\_**

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



March 24, 2014

Greg Crabtree  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Mr. Crabtree:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated March 19, 2014 and received March 24, 2014, to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 28**.

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

**Brad A. Jones**  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



March 19, 2014

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

RECEIVED OCD

2014 MAR 24 PM 10:42

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELL 28 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of a successive lift at Envirotech's Land Farm #2 for cell 28 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 the composite sample consisted of four (4) discrete samples.

The green cell (cell 28) has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes (BTEX), and chlorides (see attached Laboratory Results). The BTEX, TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests this cell be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amount and depth of the treatment zone for the five (5) acre cell up to this time:

Cell 28: 10436 cy (~16")

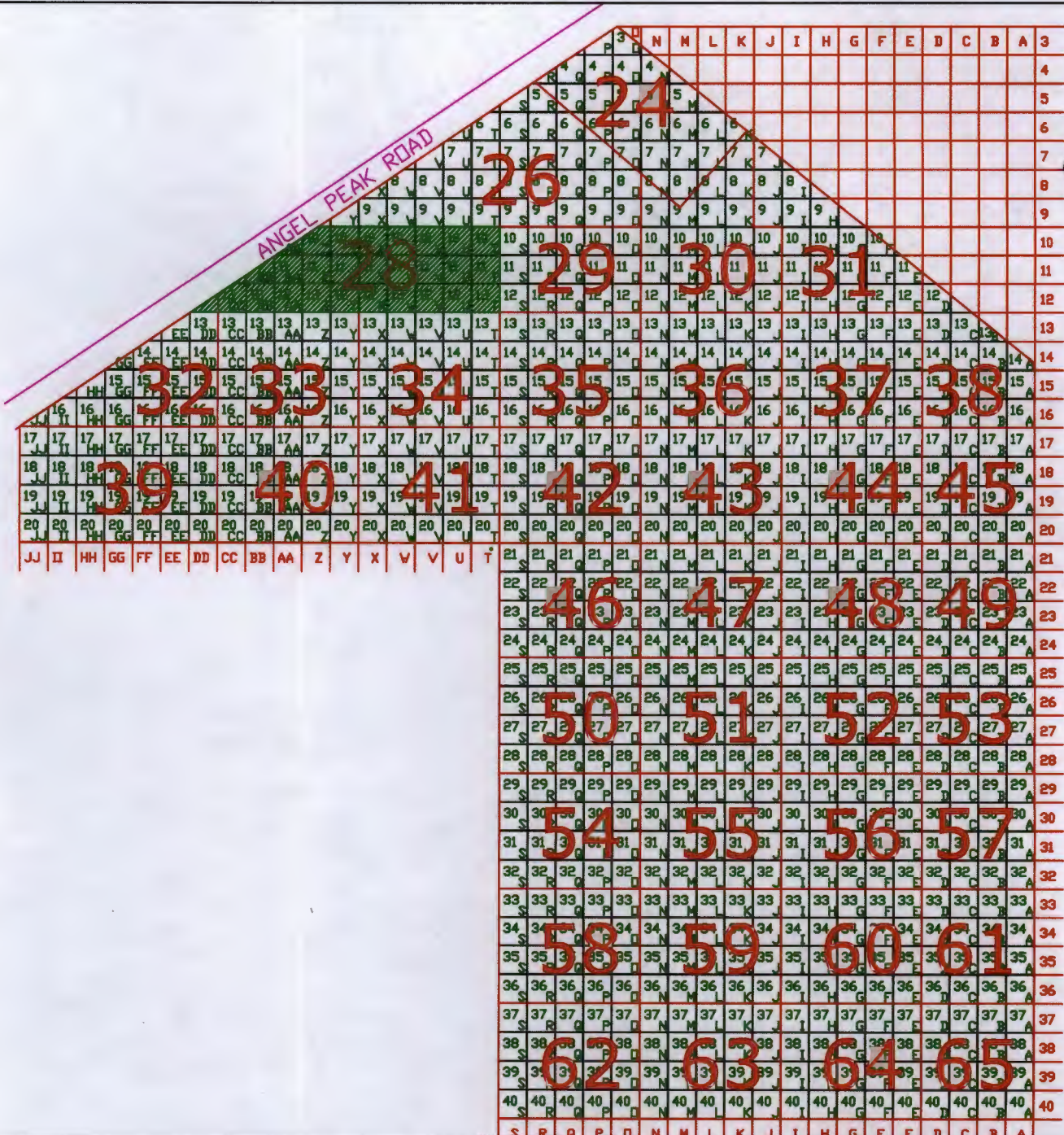
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

A handwritten signature in black ink, appearing to read 'Greg Crabtree', written over a horizontal line.

Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)



# LEGEND

ENVIROTECH  
NMOC PERMITTED  
LANDFARM # 2  
UNIT 5

62 5 ACRE CELL

29 CELL REQUESTING LIFT

SCALE: 1=100'			FIGURE NO.	REV
PROJECT NO.				
REVISIONS				
NO.	DATE	BY	DESCRIPTION	
MAP DRWN	JMK	12-7-09	BASE DRWN	







## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16756

Samples Received: 3/19/2014 7:05:00AM

Job Number: Landfarm OH

Work Order: P403057

Project Name/Location: Landfarm 2 & 2-5  
Closures

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', written over a horizontal line.

Date: 3/21/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 & 2-5 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

**Reported:**  
21-Mar-14 08:50

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 17	P403057-01A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.
Cell 28	P403057-02A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 & 2-5 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

Reported:  
21-Mar-14 08:50

### Cell 28

### P403057-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8021B	
p,m-Xylene	0.07	0.05	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8021B	
Total Xylenes	0.07	0.05	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8021B	
Total BTEX	0.07	0.05	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8021B	
Surrogate: Bromochlorobenzene		110 %		80-120	1412017	03/19/14	03/19/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		100 %		80-120	1412017	03/19/14	03/19/14	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1412017	03/19/14	03/19/14	EPA 8015D	
Diesel Range Organics (C10-C28)	72.0	30.0	mg/kg	1	1412016	03/19/14	03/19/14	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	45.4	9.98	mg/kg	1	1412022	03/19/14	03/19/14	EPA 300.0	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 & 2-5 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

Reported:  
21-Mar-14 08:50

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1412017 - Purge and Trap EPA 5030A

##### Blank (1412017-BLK1)

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
p,m-Xylene	ND	0.001	"							
o-Xylene	ND	0.001	"							
Total Xylenes	ND	0.001	"							
Total BTEX	ND	0.001	"							

Surrogate: 1,3-Dichlorobenzene	44.4		ug/L	50.0		88.7	80-120			
Surrogate: Bromochlorobenzene	47.3		"	50.0		94.6	80-120			

##### Duplicate (1412017-DUP1)

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Benzene	ND	0.001	mg/kg		ND				30	
Toluene	ND	0.001	"		ND				30	
Ethylbenzene	ND	0.001	"		ND				30	
p,m-Xylene	ND	0.001	"		ND				30	
o-Xylene	ND	0.001	"		ND				30	

Surrogate: 1,3-Dichlorobenzene	48.6		ug/L	50.0		97.3	80-120			
Surrogate: Bromochlorobenzene	50.5		"	50.0		101	80-120			

##### Matrix Spike (1412017-MS1)

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Benzene	53.7		ug/L	50.0	ND	107	39-150			
Toluene	53.7		"	50.0	ND	107	46-148			
Ethylbenzene	53.4		"	50.0	ND	107	32-160			
p,m-Xylene	105		"	100	ND	105	46-148			
o-Xylene	52.6		"	50.0	ND	105	46-148			

Surrogate: 1,3-Dichlorobenzene	52.5		"	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.1		"	50.0		106	80-120			

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laboratory@envirotech-inc.com





Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 & 2-5 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

Reported:  
21-Mar-14 08:50

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1412016 - DRO Extraction EPA 3550C

##### Blank (1412016-BLK1)

Prepared: 18-Mar-14 Analyzed: 19-Mar-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg

##### Duplicate (1412016-DUP1)

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 19-Mar-14

Diesel Range Organics (C10-C28) ND 30.0 mg/kg ND 30

##### Matrix Spike (1412016-MS1)

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 19-Mar-14

Diesel Range Organics (C10-C28) 200 mg/L 250 ND 79.9 75-125

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 & 2-5 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

**Reported:**  
21-Mar-14 08:50

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1412017 - Purge and Trap EPA 5030A</b>										
<b>Blank (1412017-BLK1)</b>					Prepared: 18-Mar-14 Analyzed: 20-Mar-14					
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg							
<b>Duplicate (1412017-DUP1)</b>					Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 20-Mar-14					
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg		ND				30	
<b>Matrix Spike (1412017-MS1)</b>					Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 20-Mar-14					
Gasoline Range Organics (C6-C10)	0.58		mg/L	0.450	ND	129	75-125			SPK1

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2 & 2-5 Closures Project Number: Landfarm OH Project Manager: Greg Crabtree	Reported: 21-Mar-14 08:50
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### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1412022 - Anion Extraction EPA 300.0</b>										
<b>Blank (1412022-BLK1)</b>				Prepared & Analyzed: 19-Mar-14						
Chloride	ND	9.94	mg/kg							
<b>LCS (1412022-BS1)</b>				Prepared & Analyzed: 19-Mar-14						
Chloride	484	9.94	mg/kg	497		97.5	90-110			
<b>Matrix Spike (1412022-MS1)</b>				Source: P403054-01 Prepared & Analyzed: 19-Mar-14						
Chloride	506	9.95	mg/kg	497	17.7	98.1	80-120			
<b>Matrix Spike Dup (1412022-MSD1)</b>				Source: P403054-01 Prepared & Analyzed: 19-Mar-14						
Chloride	504	9.83	mg/kg	491	17.7	99.0	80-120	0.335	20	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 & 2-5 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

**Reported:**  
21-Mar-14 08:50

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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16756

Page 10 of 10

# ENVIROTECH Inc.

5795 US HWY. 64 FARMINGTON, NM 87401  
(505) 632-0615

PT NO \_\_\_\_\_  
COC # \_\_\_\_\_

## FIELD REPORT REMEDIATION FACILITY CLOSURE VERIFICATION

JOB NO \_\_\_\_\_  
PAGE NO \_\_\_\_\_

FACILITY LOCATION: Envirotech Lamo Farm  
SOURCE LOCATION: Lamo Farm 2-5  
SOURCE LOCATION: Cell 28  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ P.T. TYPE: \_\_\_\_\_ ENVIRONMENTAL SPECIALIST: GWC

DATE STARTED: 3/10/14  
DATE FINISHED: 3/18/14

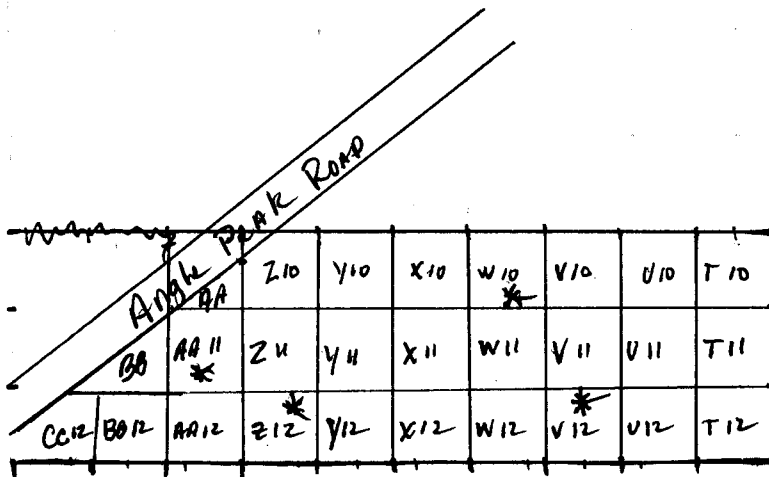
SOIL REVEALATION QUANTITY: \_\_\_\_\_ # OF COMP SAMPLES: 1  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ FEET FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_  
NEAREST WATER SOURCE TYPE: \_\_\_\_\_  
NEAREST SURFACE WATER: \_\_\_\_\_  
MAX. TPH PER AYTCD: 100 ppm  
No. OF 5-POINT COMPOSITE SAMPLES: \_\_\_\_\_  
TAPDAGE: \_\_\_\_\_  
0-20' = \_\_\_\_\_  
20'-40' = 2  
40'-100' = 3  
100' = 5

## FACILITY DIAGRAM

GRID SCALE: NTS



## QVM RESULTS

SAMPLE \_\_\_\_\_

LAB

Cell 28 8015 72.0  
80210 ND  
T ND  
E ND  
X 0.07

Cell 28 45.4

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



July 30, 2014

Greg Crabtree  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Reuse Remediated Soils for the Stabilization/Solidification of Drilling Mud, Tank Bottoms, and Sludge**  
**Envirotech, Inc.**  
**Commercial Landfarm #2: Permit NM1-011**  
**Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM**  
**San Juan County, New Mexico**

Dear Mr. Crabtree:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated July 25, 2014 and received by OCD on July 29, 2014, to remove approximately 28,317 cubic yards of remediated soils from **Cells 11 and 16**; stockpile in a designated bermed area; and utilize the remediated soils for the stabilization and/or solidification of incoming drilling mud, tank bottoms, and sludge. The analytical results provided in the request, demonstrates that Envirotech has remediated the contaminated soils within **Cells 11 and 16** to the concentration limits that would allow OCD the authority approval the application of additional lift.

OCD hereby grants Envirotech approval to reuse the remediated soils from **Cells 11 and 16** for the stabilization and/or solidification of incoming drilling mud, tank bottoms, and sludge with the following conditions:

**Cells 11 and 16:**

- Envirotech shall control blowing dust and reduce the potential of fugitive dust emissions while transferring the remediated soils from **Cells 11 and 16** to the designated stockpile area. Pursuant Paragraph (6) of Subsection C of Section 15 of 19.15.36 NMAC, operational requirements regarding landfarms, Envirotech may "add moisture, as necessary," to the remediated soils "to control blowing dust."
- Envirotech shall complete a vadose zone monitoring/sampling event in **Cells 11 and 16** upon the removal of the remediated soils to the original native ground surface in each landfarm cell.
- If the remediated soils are removed in a phased approach, Envirotech shall complete a vadose zone monitoring/sampling event upon the removal of the remediated soils to the original native ground surface within each landfarm cell.

- Envirotech shall comply with the release response provision of Paragraph (5) of Subsection E of 19.15.36.15 NMAC, if “vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations.”
- Envirotech shall obtain OCD approval prior to the placement and application of contaminated soils within **Cells 11 and/or 16**.

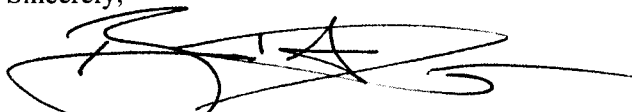
Stockpiling of Remediated Soils:

- Envirotech shall ensure that the area containing the stockpiled remediated soils be properly bermed to prevent the collection of surface water run-on and control storm water run-off.
- Envirotech shall ensure that no pooling or ponding of stormwater run-off /on occurs within the bermed stockpile area. Envirotech shall remove any ponding of precipitation within twenty-four (24) hours of discovery.
- Envirotech shall ensure that the stockpiled remediated soils do not exceed a height of eight (8) feet.
- Upon placement of soils from **Cells 11 and/or 16** within the bermed stockpile area, Envirotech shall implement vadose zone sampling beneath the stockpiled soils pursuant to the conditions of Permit NM1-011 and the transitional requirements of 19.15.36.20 NMAC regarding operations.
- Envirotech shall control blowing dust and reduce the potential of fugitive dust emissions of the stockpiled remediated soils from leaving the surface waste management facility. Pursuant Paragraph (6) of Subsection C of Section 15 of 19.15.36 NMAC, operational requirements regarding landfarms, Envirotech may “add moisture, as necessary,” to the stockpiled remediated soils “to control blowing dust.” If necessary, OCD may require Envirotech to reduce the height of the stockpiled remediated soils to address fugitive dust emissions.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,



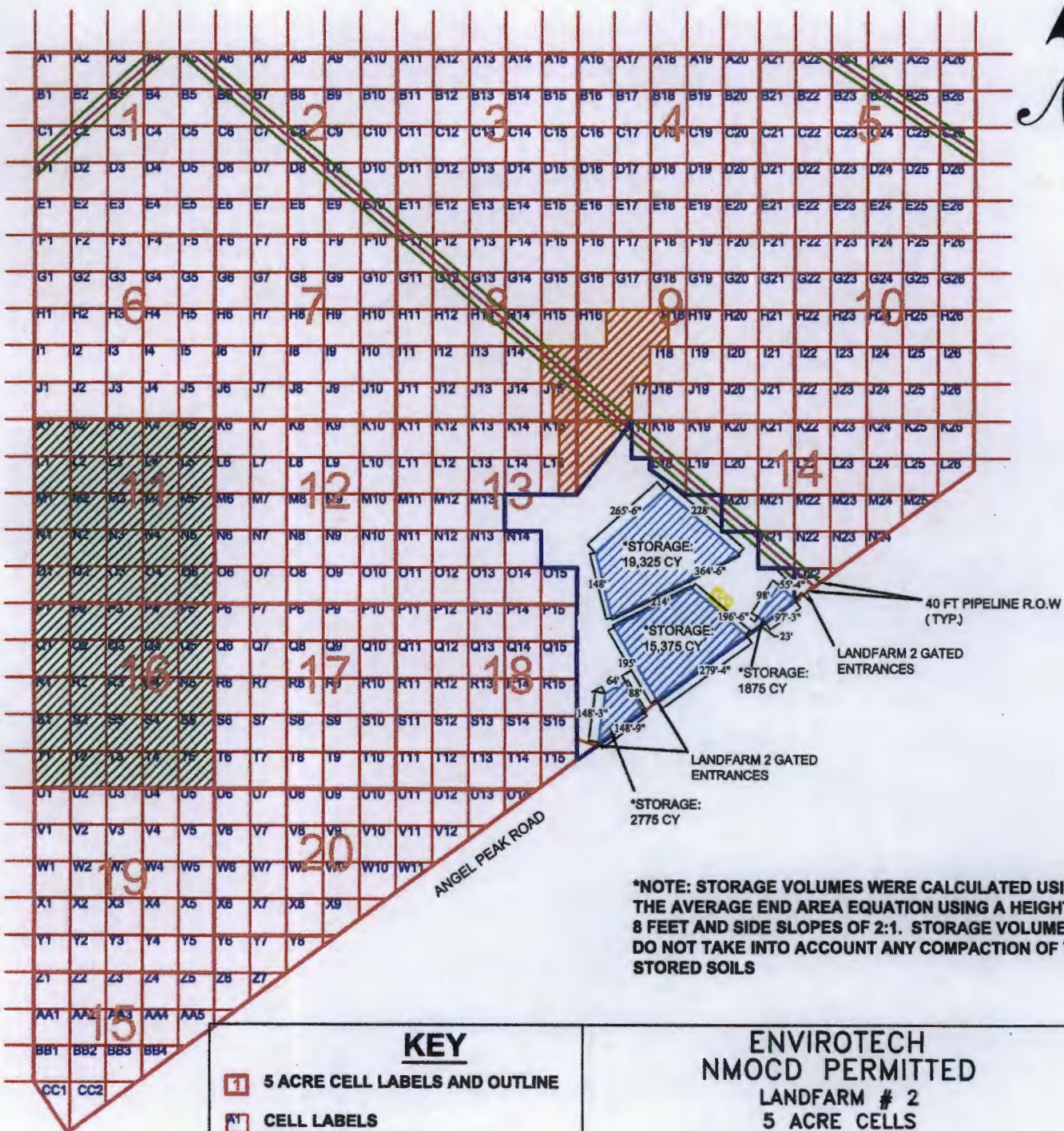
Brad A. Jones  
Environmental Engineer

BAJ/baj

Attachment: Facility Map (dated January 11, 2013)

cc: OCD District III Office, Aztec





### KEY

- 1 5 ACRE CELL LABELS AND OUTLINE
- A1 CELL LABELS
- UNFARMABLE AREA OUTLINE
- BLENDING FACILITY
- BLENDING STOCK
- WELLSITES
- PIPELINES
- 40 FOOT PIPELINE R.O.W.
- GATES
- FIELD OFFICE
- REQUEST TO SCRAPE

### ENVIROTECH NMOCD PERMITTED LANDFARM # 2 5 ACRE CELLS

SCALE: NTS

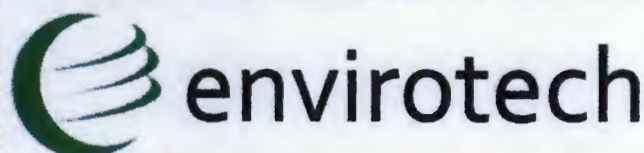
PROJECT NO.

FIGURE NO.

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	JKA	1/11/13	BASE DRWN



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



RECEIVED OCD

2014 JUL 29 P 1:26

July 25, 2014

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

RE: ENVIROTECH'S REQUEST FOR SCRAPING 5-ACRE CELLS:  
CELL 11 AND 16 IN LANDFARM #2

Dear Mr. Jones:

Envirotech hereby requests permission to scrape 5-acre cells 11 and 16 located within Envirotech's Landfarm #2 facility, #43 Road 7175, South of Bloomfield, New Mexico, and relocate the scraped soil to the Landfarm #2 blending facility for use as blending stock.

Envirotech proposes the scraping of cells 11 and 16 based on analysis showing that these cells have met the levels required in Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, in order to request successive lifts or removal of soil from a cell. The scraped soil will be reused to stabilize and/or solidify incoming contaminated liquid which once stabilized and/or solidified will be placed in an approved 5-acre cell for remediation.

As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts or removal of soil from a cell. Additionally, chloride concentrations cannot exceed 1000 mg/kg. Attached please find analytical documentation supporting our request for the scraping of Envirotech's Landfarm #2 cell 11 and 16. The area being submitted is shown on the attached map, marked by a green crosshatch.

As a part of the request, Envirotech proposes to place a berm around the stock piles containing the scraped soil as it has not been proven through analysis that the soil has meet the treatment zone closure performance standards set in 19.15.36.15.F NMAC. Additionally, Envirotech proposes to implement quarterly vadose zone monitoring for TPH, BTEX, and chlorides underneath the stock piles in order to insure there is no migration of contaminants from the stock piles into native soil. Envirotech will continue vadose zone monitoring on a quarterly basis for as long as the stock piles are in place. The placement of the stock piles containing the scraped soil along with maximum storage capacity assuming the stockpiles do not exceed eight (8) feet is marked by the turquoise crosshatch on the attached map.

Upon completion of removal of the soil from cells 11 and 16, Envirotech will pull a four (4)-point composite sample from the native surface of each 5-acre cell and analyze it for TPH, BTEX, and chlorides in order to prove the prior Landfarm operations did not contaminate the vadose zone. The analysis from this sampling event will be submitted to the NMOCD for review/approval prior to the application of a new lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

Cell 11: 14590 cy (~24")


Cell 16: 13725 cy (~21")

Envirotech, Inc. anticipates the remediated material will be used for blending stock in the next five (5) years; however, this is only an estimate and not a guarantee, as Envirotech is not able to forecast future Landfarm receivals.

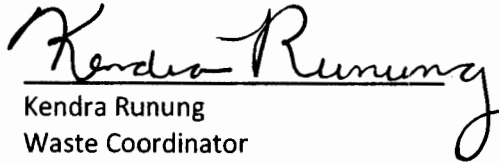
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
**Envirotech, Inc.**

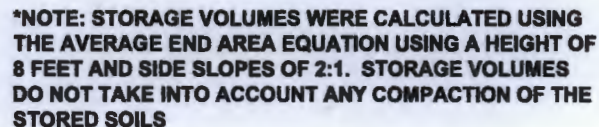


Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)



Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)





5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615





## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16757

Samples Received: 3/19/2014 7:05:00AM

Job Number: Landfarm OH

Work Order: P403058

Project Name/Location: Landfarm 2 Closures

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', written over a horizontal line.

Date: 3/27/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

Reported:  
27-Mar-14 11:09

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 12	P403058-01A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.
Cell 7	P403058-02A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.
Cell 6	P403058-03A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.
Cell 11	P403058-04A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.
Cell 16	P403058-05A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.
Cell 19	P403058-06A	Soil	03/18/14	03/19/14	Glass Jar, 4 oz.

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Ph (970) 259-0615 Fr (800) 362-1879

[envirotech-nm.com](http://envirotech-nm.com)

[laboratory.envirotech-nm.com](http://laboratory.envirotech-nm.com)



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

Reported:  
27-Mar-14 11:09

**Cell 11**  
**P403058-04 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8021B	
Surrogate: Bromochlorobenzene		99.9 %		80-120		1412017	03 19 14	03 26 14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.2 %		80-120		1412017	03 19 14	03 26 14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1412017	03/19/14	03/26/14	EPA 8015D	
Diesel Range Organics (C10-C28)	30.3	30.0	mg/kg	1		1412016	03/19/14	03/24/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	237	9.90	mg/kg	1		1412040	03/21/14	03/21/14	EPA 300.0	

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laboratory@envirotech-inc.com



Envirotech	Project Name:	Landfarm 2 Closures	Reported: 27-Mar-14 11:09
5796 US HWY 64	Project Number:	Landfarm OH	
Farmington NM, 87401	Project Manager:	Greg Crabtree	

**Cell 16**  
**P403058-05 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8021B		
Surrogate: Bromochlorobenzene		103 %		80-120	1412017	03/19/14	03/26/14	EPA 8021B		
Surrogate: 1,3-Dichlorobenzene		99.2 %		80-120	1412017	03/19/14	03/26/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1412017	03/19/14	03/26/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1412016	03/19/14	03/24/14	EPA 8015D		
Cation/Anion Analysis										
Chloride	14.6	9.86	mg/kg	1	1412040	03/21/14	03/21/14	EPA 300.0		

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

Reported:  
27-Mar-14 11:09

**Volatile Organics by EPA 8021 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1412017 - Purge and Trap EPA 5030A**

**Blank (1412017-BLK1)**

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
p,m-Xylene	ND	0.001	"							
o-Xylene	ND	0.001	"							
Total Xylenes	ND	0.001	"							
Total BTEX	ND	0.001	"							
Surrogate: 1,3-Dichlorobenzene	44.4		ug/L	50.0		88.7	80-120			
Surrogate: Bromochlorobenzene	47.3		"	50.0		94.6	80-120			

**Duplicate (1412017-DUP1)**

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Benzene	ND	0.001	mg/kg		ND				30	
Toluene	ND	0.001	"		ND				30	
Ethylbenzene	ND	0.001	"		ND				30	
p,m-Xylene	ND	0.001	"		ND				30	
o-Xylene	ND	0.001	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	48.6		ug/L	50.0		97.3	80-120			
Surrogate: Bromochlorobenzene	50.5		"	50.0		101	80-120			

**Matrix Spike (1412017-MS1)**

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Benzene	53.7		ug/L	50.0	ND	107	39-150			
Toluene	53.7		"	50.0	ND	107	46-148			
Ethylbenzene	53.4		"	50.0	ND	107	32-160			
p,m-Xylene	105		"	100	ND	105	46-148			
o-Xylene	52.6		"	50.0	ND	105	46-148			
Surrogate: 1,3-Dichlorobenzene	52.5		"	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.1		"	50.0		106	80-120			

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Envirotech	Project Name:	Landfarm 2 Closures	Reported: 27-Mar-14 11:09
5796 US HWY 64	Project Number:	Landfarm OH	
Farmington NM, 87401	Project Manager:	Greg Crabtree	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1412016 - DRO Extraction EPA 3550C

<b>Blank (1412016-BLK1)</b>				Prepared: 18-Mar-14 Analyzed: 19-Mar-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1412016-DUP1)</b>				Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 19-Mar-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
<b>Matrix Spike (1412016-MS1)</b>				Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 19-Mar-14						
Diesel Range Organics (C10-C28)	200		mg/L	250	ND	79.9	75-125			

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

Reported:  
27-Mar-14 11:09

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch 1412017 - Purge and Trap EPA 5030A

##### Blank (1412017-BLK1)

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Gasoline Range Organics (C6-C10) ND 0.10 mg/kg

##### Duplicate (1412017-DUP1)

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Gasoline Range Organics (C6-C10) ND 0.10 mg/kg ND 30

##### Matrix Spike (1412017-MS1)

Source: P403051-01

Prepared: 18-Mar-14 Analyzed: 20-Mar-14

Gasoline Range Organics (C6-C10) 0.58 mg/L 0.450 ND 129 75-125 SPK1

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laboratory@envirotech-inc.com



Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2 Closures Project Number: Landfarm OH Project Manager: Greg Crabtree	Reported: 27-Mar-14 11:09
--	--	------------------------------

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch 1412040 - Anion Extraction EPA 300.0

<b>Blank (1412040-BLK1)</b>				Prepared & Analyzed: 21-Mar-14						
Chloride	ND	9.89	mg/kg							
<b>LCS (1412040-BS1)</b>				Prepared & Analyzed: 21-Mar-14						
Chloride	490	9.95	mg/kg	498		98.5	90-110			
<b>Matrix Spike (1412040-MS1)</b>				Source: P403058-01 Prepared & Analyzed: 21-Mar-14						
Chloride	660	9.92	mg/kg	496	157	101	80-120			
<b>Matrix Spike Dup (1412040-MSD1)</b>				Source: P403058-01 Prepared & Analyzed: 21-Mar-14						
Chloride	658	9.94	mg/kg	497	157	101	80-120	0.326	20	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closures  
Project Number: Landfarm OH  
Project Manager: Greg Crabtree

**Reported:**  
27-Mar-14 11:09

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DEI Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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16757

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# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: N/A  
PAGE No: 1 of 1

FACILITY LOCATION: Envirotech CF Unit 2 CELL 11

DATE STARTED: 3/18/14

SOURCE LOCATION: \_\_\_\_\_

DATE FINISHED: 3/18/14

SOURCE LOCATION: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: Gux

SOURCE LOCATION: \_\_\_\_\_

FACILITY CLASSIFICATION: \_\_\_\_\_

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: 1

DIMENSIONS: 5 acre cell # 11

VISIBLE OBSERVATIONS: None

SAMPLING PLAN: (1) 4pt composite from 0-6" deep

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_

NEAREST WATER SOURCE/TYPE: \_\_\_\_\_

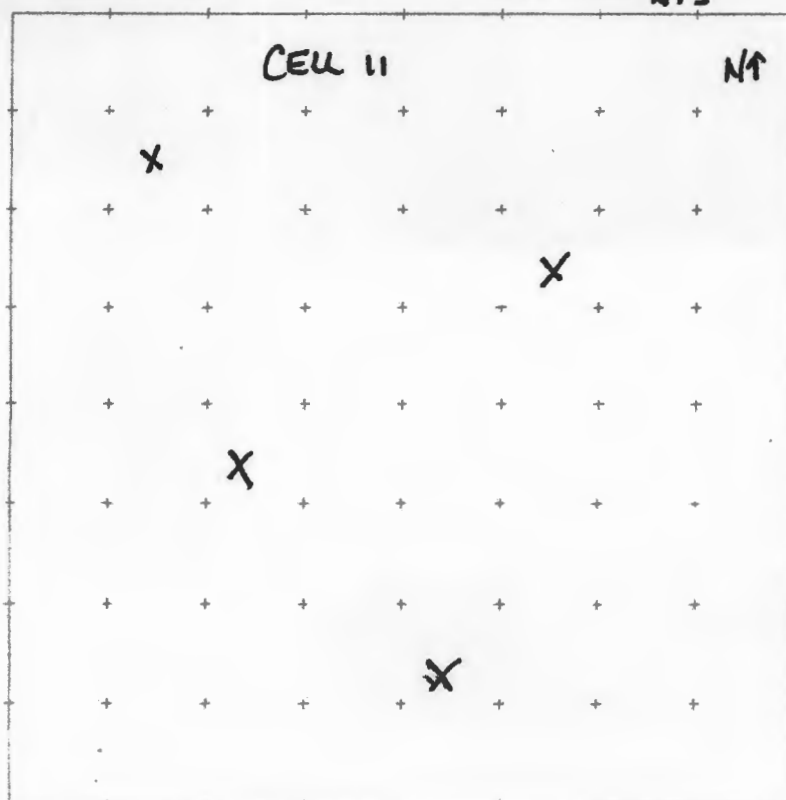
NEAREST SURFACE WATER: \_\_\_\_\_

MAX TPH PER NMOC: \_\_\_\_\_

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: NTS



## OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: N/A  
PAGE No: 1 of 1

FACILITY LOCATION: Envirotech CF Unit 2 Cell 16  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

DATE STARTED: 3/18  
DATE FINISHED: 3/18

ENVIRONMENTAL  
SPECIALIST: GWC

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: 1  
DIMENSIONS: 5 acre cell #16  
VISIBLE OBSERVATIONS: None to note  
SAMPLING PLAN: (1) 4pt Composite

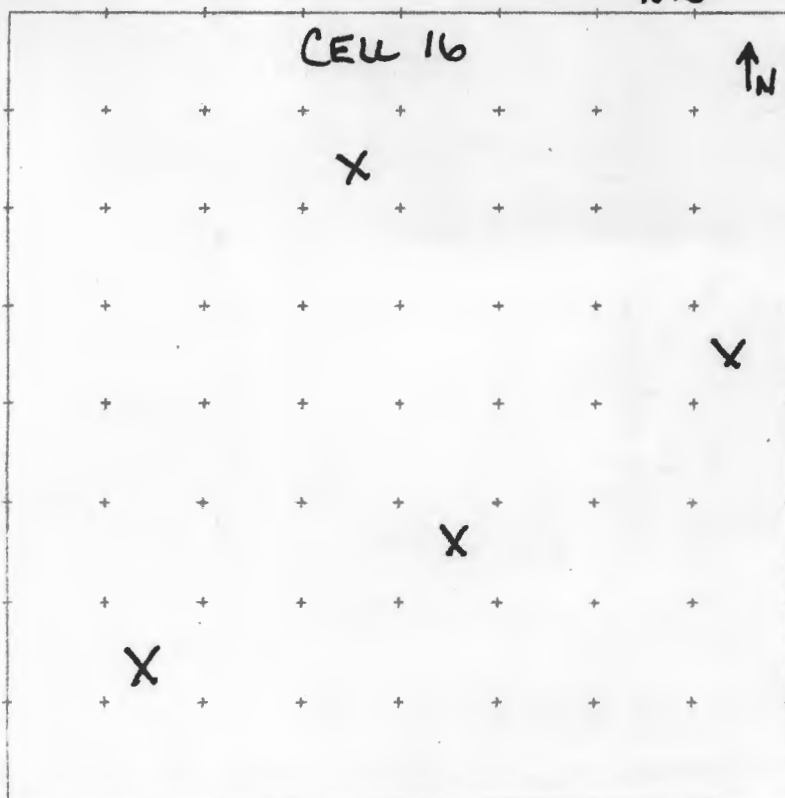
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMDCD:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE NTS



## OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



January 29, 2014

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated January 28, 2014 and received January 29, 2014, to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 49**.

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

**Brad A. Jones**  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



January 28, 2014

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

RECEIVED OCD

7TH JAN 29 A 9:42

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELL 49 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of a successive lift at Envirotech's Land Farm #2 for cell 49 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cell (cell 49) has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX, benzene, TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests this cell be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amount and depth of the treatment zone for the five (5) acre cell up to this time:

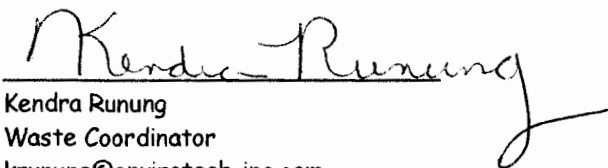
Cell 49: 10626 cy (~16")

Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

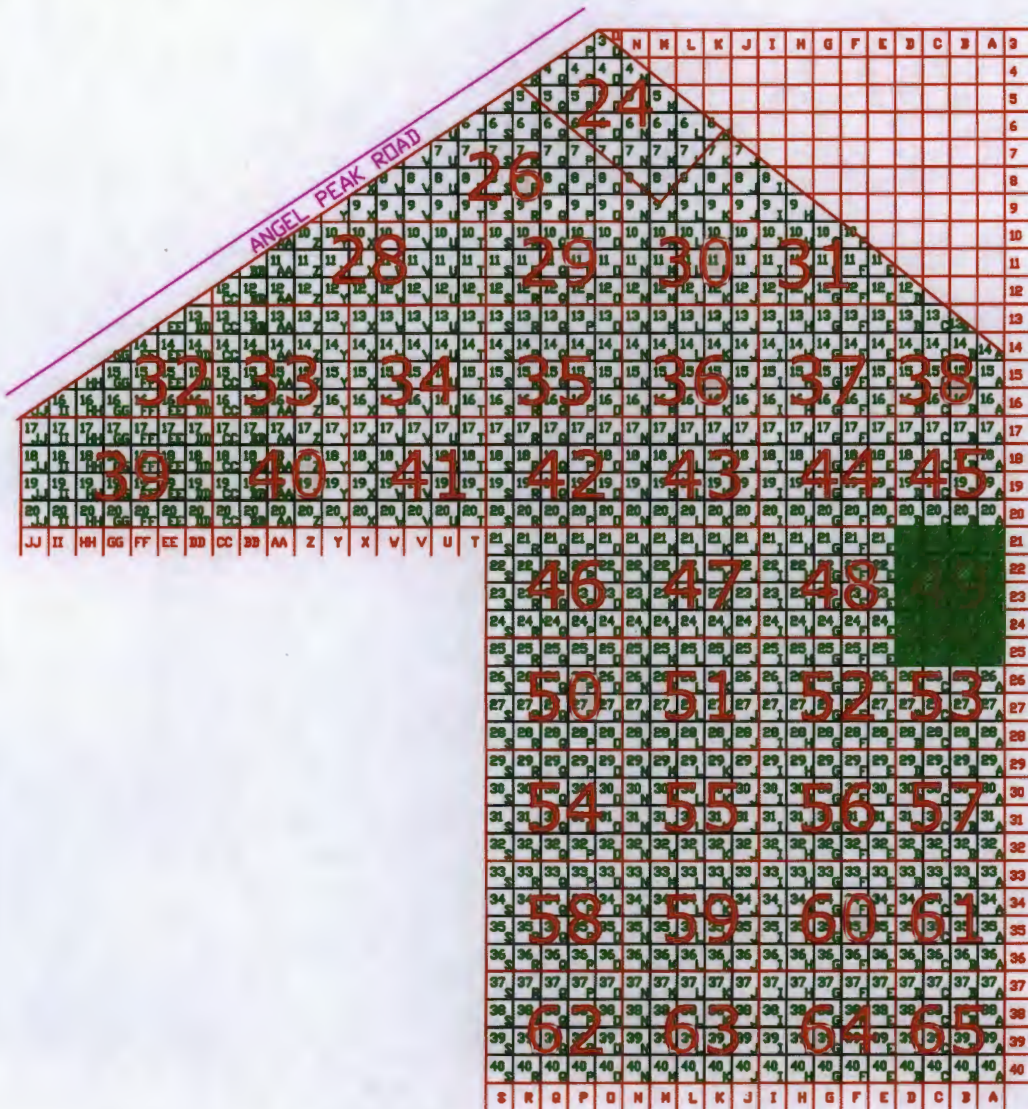
Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

  
Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

  
Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)





# LEGEND

ENVIROTECH  
NMOC D PERMITTED  
LANDFARM # 2  
UNIT 5

62 5 ACRE CELL

29 CELL REQUESTING LIFT

SCALE: 1=100'

PROJECT NO.

FIGURE NO.

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	JMK	12-7-09	BASE DRWN



envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16513

Samples Received: 1/15/2014 4:24:00PM

Job Number: [none]

Work Order: P401035

Project Name/Location: LF 2-5 2014 Semi-Ann.

Tmt Zone Monitoring 1st Evt

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 1/21/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt  
Project Number:  
Project Manager: Eric Liese

Reported:  
21-Jan-14 15:01

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 45	P401035-01A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-01B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 49	P401035-02A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-02B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 53	P401035-03A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-03B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 57	P401035-04A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-04B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 61	P401035-05A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-05B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 65	P401035-06A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-06B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 62	P401035-07A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-07B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 63	P401035-08A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-08B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 64	P401035-09A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-09B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
Cell 60	P401035-10A	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.
	P401035-10B	Soil	01/15/14	01/15/14	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

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laboratory@envirotech-inc.com



Envirotech	Project Name:	LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt	Reported:
5796 US HWY 64	Project Number:		21-Jan-14 15:01
Farmington NM, 87401	Project Manager:	Eric Liese	

**Cell 49**  
**P401035-02 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.3 %		80-120	1403020	01/16/14	01/17/14	EPA 8021B	
Surrogate: Bromochlorobenzene		98.9 %		80-120	1403020	01/16/14	01/17/14	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1403020	01/16/14	01/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	40.2	30.0	mg/kg	1	1403021	01/16/14	01/17/14	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	611	10.0	mg/kg	1	1403018	01/16/14	01/16/14	EPA 300.0	

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Envirotech	Project Name:	LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt	Reported:
5796 US HWY 64	Project Number:		21-Jan-14 15:01
Farmington NM, 87401	Project Manager:	Eric Liese	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1403020 - Purge and Trap EPA 5030A

<b>Blank (1403020-BLK1)</b>				Prepared: 16-Jan-14 Analyzed: 17-Jan-14						
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	49.6		ug/L	50.0		99.2	80-120			
Surrogate: Bromochlorobenzene	52.3		"	50.0		105	80-120			

<b>Duplicate (1403020-DUP1)</b>				Source: P401035-01	Prepared: 16-Jan-14 Analyzed: 17-Jan-14					
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	48.3		ug/L	50.0		96.5	80-120			
Surrogate: Bromochlorobenzene	50.8		"	50.0		102	80-120			

<b>Matrix Spike (1403020-MS1)</b>				Source: P401035-01	Prepared: 16-Jan-14 Analyzed: 17-Jan-14					
Benzene	48.5		ug/L	50.0	ND	97.1	39-150			
Toluene	48.9		"	50.0	ND	97.7	46-148			
Ethylbenzene	48.6		"	50.0	ND	97.1	32-160			
p,m-Xylene	97.6		"	100	ND	97.6	46-148			
o-Xylene	49.8		"	50.0	ND	99.7	46-148			
Surrogate: 1,3-Dichlorobenzene	48.4		"	50.0		96.8	80-120			
Surrogate: Bromochlorobenzene	50.6		"	50.0		101	80-120			

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Envirotech	Project Name:	LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt	Reported:
5796 US HWY 64	Project Number:		21-Jan-14 15:01
Farmington NM, 87401	Project Manager:	Eric Liese	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1403020 - Purge and Trap EPA 5030A

<b>Blank (1403020-BLK1)</b>		Prepared: 16-Jan-14 Analyzed: 17-Jan-14								
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
<b>Duplicate (1403020-DUP1)</b>		<b>Source: P401035-01</b>		Prepared: 16-Jan-14 Analyzed: 17-Jan-14						
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg		ND				30	
<b>Matrix Spike (1403020-MS1)</b>		<b>Source: P401035-01</b>		Prepared: 16-Jan-14 Analyzed: 17-Jan-14						
Gasoline Range Organics (C6-C10)	0.47		mg/l.	0.450	ND	104	75-125			

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Envirotech	Project Name:	LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt	Reported: 21-Jan-14 15:01
5796 US HWY 64	Project Number:		
Farmington NM, 87401	Project Manager:	Eric Liese	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1403021 - DRO Extraction EPA 3550C</b>										
<b>Blank (1403021-BLK1)</b>				Prepared: 16-Jan-14 Analyzed: 17-Jan-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1403021-DUP1)</b>				Source: P401035-01 Prepared: 16-Jan-14 Analyzed: 17-Jan-14						
Diesel Range Organics (C10-C28)	145	30.0	mg/kg		158			8.78	30	
<b>Matrix Spike (1403021-MS1)</b>				Source: P401035-01 Prepared: 16-Jan-14 Analyzed: 17-Jan-14						
Diesel Range Organics (C10-C28)	414	31.6	mg/kg	263	158	97.1	75-125			

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Envirotech	Project Name:	LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt	Reported:
5796 US HWY 64	Project Number:		21-Jan-14 15:01
Farmington NM, 87401	Project Manager:	Eric Liese	

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1403018 - Anion Extraction EPA 300.0</b>										
<b>Blank (1403018-BLK1)</b>				Prepared & Analyzed: 16-Jan-14						
Chloride	ND	9.89	mg/kg							
<b>LCS (1403018-BS1)</b>				Prepared & Analyzed: 16-Jan-14						
Chloride	495	9.99	mg/kg	500		99.1	90-110			
<b>Matrix Spike (1403018-MS1)</b>				Source: P401035-01 Prepared & Analyzed: 16-Jan-14						
Chloride	962	10.0	mg/kg	500	438	105	80-120			
<b>Matrix Spike Dup (1403018-MSD1)</b>				Source: P401035-01 Prepared & Analyzed: 16-Jan-14						
Chloride	997	9.93	mg/kg	497	438	113	80-120	3.60	20	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt  
Project Number:  
Project Manager: Eric Liese

**Reported:**  
21-Jan-14 15:01

#### Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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envirotech-nm.com  
laboratory@envirotech-nm.com

# CHAIN OF CUSTODY RECORD

16513

Client: <b>Envirotech</b>		Project Name / Location: <b>LF 2-5 2014 Semi-Annual Zone Monitoring 1st Eut</b>		ANALYSIS / PARAMETERS																			
Email results to: <b>Kendra</b>		Sampler Name: <b>E. Lipse</b>		Sample No. / Identification		Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative HNO <sub>3</sub> HCl	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
Client Phone No.:		Client No.:		Cell 45		1-15-14	1:00	P401035-01	2-402-jars		X	X								X		✓	✓
				Cell 49			1:11	P401035-02															
				Cell 53			1:26	P401035-03															
				Cell 57			1:39	P401035-04															
				Cell 61			1:54	P401035-05															
				Cell 65			2:09	P401035-06															
				Cell 62			2:51	P401035-07															
				Cell 63			2:39	P401035-08															
				Cell 64			2:22	P401035-09															
				Cell 60			3:38	P401035-10															
Relinquished by: (Signature) <i>[Signature]</i>		Date		Time		Received by: (Signature) <i>[Signature]</i>		Date		Time		Date										Time	
												1/15/14 5:13										1/15/14 16:24	
Relinquished by: (Signature) <i>[Signature]</i>																							
Sample Matrix																							
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																							
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																							





# ENVIROTECH Inc.

5795 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0815

PIT NO. \_\_\_\_\_  
COC # \_\_\_\_\_

## FIELD REPORT REMEDIATION FACILITY CLOSURE VERIFICATION

JOB NO. \_\_\_\_\_  
PAGE NO. \_\_\_\_\_

FACILITY LOCATION: EnviroTech Land Farm  
SOURCE LOCATION: Land Farm 2-5  
SOURCE LOCATION: Cell 49  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_  
DATE STARTED: 1-15-14  
DATE FINISHED: 1-18-14  
ENVIRONMENTAL SPECIALIST: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY \_\_\_\_\_ # OF COMP SAMPLES: \_\_\_\_\_  
DIMENSIONS \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_  
NEAREST WATER SOURCE TYPE: \_\_\_\_\_  
NEAREST SURFACE WATER: \_\_\_\_\_  
MAX TPH PER NMECD: \_\_\_\_\_  
No. OF 5-POINT COMPOSITE SAMPLES: \_\_\_\_\_  
TAPAGE: --#  
0-200 =  
201-400 = 2  
401-1000 = 3  
1000+ = 4

FACILITY DIAGRAM

GRAND TOTAL NTS

### OVM RESULTS

SAMPLE ID	FIELD SURFACE TO GROUND

### LAB

### RESULTS

8015  
8021  
418  
C1  
A+B metals

X

X

49

X

X



RECEIVED OCD

January 28, 2014

2014 JAN 29 A 9:42

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

RE: RESCINDING REQUEST FOR SCRAPING A 5-ACRE CELL:  
CELL 7 IN LANDFARM #2

Dear Mr. Jones:

Envirotech formally rescinds the request for approval to scrap Land Farm #2 cell 7 located at #43 Road 7175, South of Bloomfield, New Mexico. The original request was submitted on September 11, 2013.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

A handwritten signature in black ink, appearing to read 'Greg Crabtree', written over a horizontal line.

Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

A handwritten signature in black ink, appearing to read 'Kendra Runung', written over a horizontal line.

Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)



September 11, 2013

RECEIVED COD

2013 SEP 12 AM 10:33

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

RE: ENVIROTECH'S REQUEST FOR SCRAPING A 5-ACRE CELL:  
CELL 7 IN LANDFARM #2

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the scraping of Envirotech's Land Farm #2 cell 7 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per NMAC 19.15.36.F, cell 7 has been filled to the maximum thickness of two feet or approximately 3000 cubic yards per acre; therefore, the following closure performance standards have been met and proven through two separate sampling events spanning over a 6 month period. Per NMAC 19.15.36.G, Envirotech request to scrape Cell 7 and relocated the remediated stock to the Landfarm's blending facility to be used to stabilize low chloride acceptances.

The analysis from both sampling events meets the following closure performance standards:

- Benzene shall not exceed 0.2 mg/kg as determined by EPA SW-846 method 8021
- Total BTEX shall not exceed 50 mg/kg as determined by EPA Method SW-846 Method 8021
- GRO and DRO combined fractions shall not exceed 500 mg/kg as determined by EPA SW-846 Method 8015
- TPH shall not exceed 2500 mg/kg as determined by EPA Method 418.1
- Chlorides shall not exceed 1000mg/kg if the landfarm is located where ground water is 100 feet or more below the lowest elevation at which the operator will place oil field waste as determined by EPA Method 300.1
- Subsection A and B of 20.6.2.3103 NMAC shall not exceed PQL or background concentrations as determined by EPA SW-846 Method 6010

As stated in NMAC 19.15.36.F, one composite sample consisting of four (4) discrete samples was collected and analyzed for the above treatment zone closure performance standards.

The green cell (cell 7) has passed analysis for benzene, toluene, ethylbenzene, total xylenes, gasoline range organics, diesel range organic, total petroleum hydrocarbons, chlorides and Subsection A and B (per EPA SW-846 Method 6010); see attached Laboratory Results from January 4, 2013 and July 17, 2013. Envirotech hereby requests this cell be approved to be scraped and the remediated soil to be relocated to Envirotech's blending facility and placed in a remediated stock pile as shown by the turquoise crosshatch design on the attached map.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

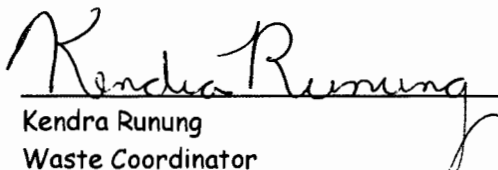
Cell 7: 15343 cy (~24")

Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

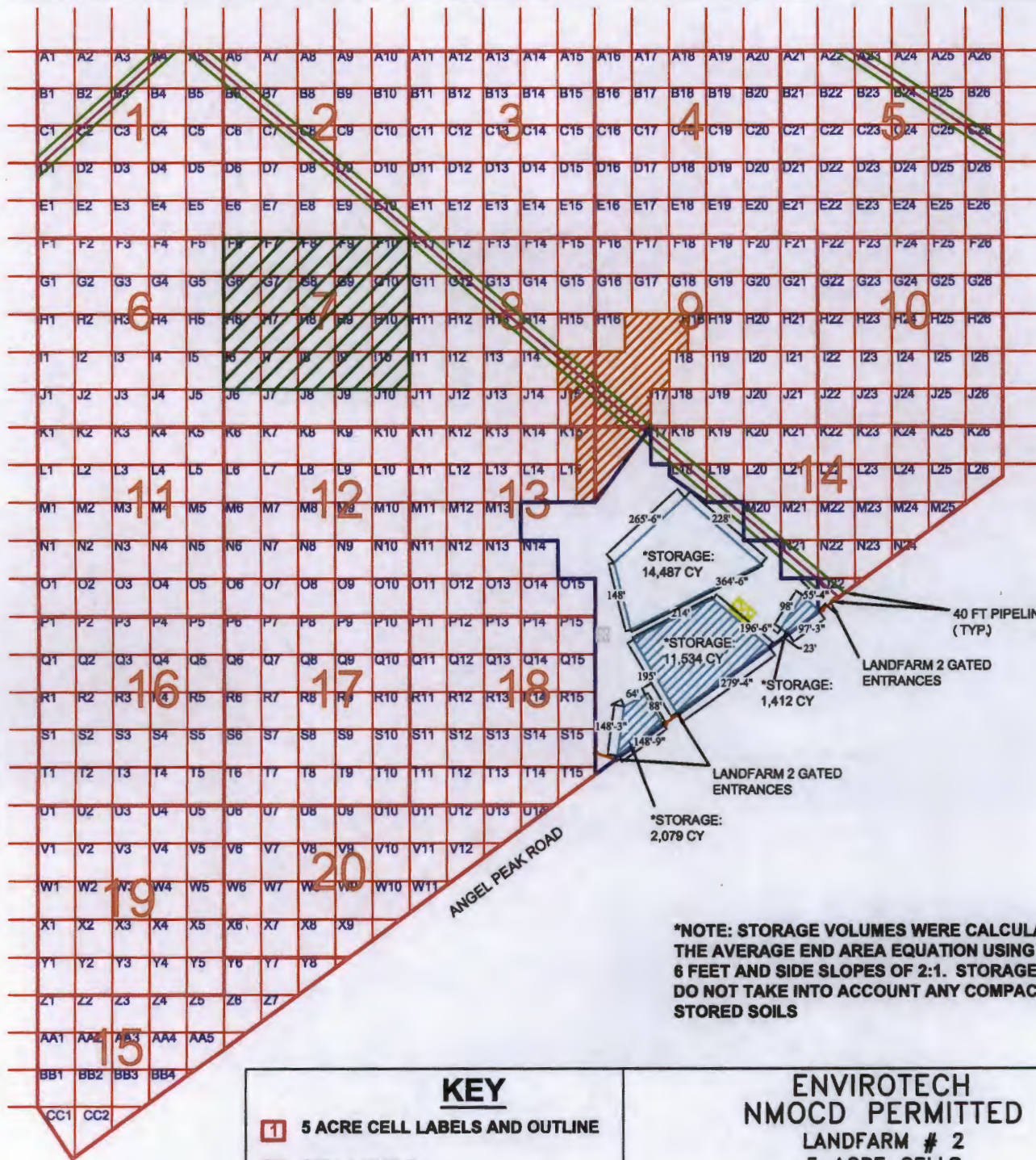
Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

  
Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

  
Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)






**\*NOTE: STORAGE VOLUMES WERE CALCULATED USING THE AVERAGE END AREA EQUATION USING A HEIGHT OF 6 FEET AND SIDE SLOPES OF 2:1. STORAGE VOLUMES DO NOT TAKE INTO ACCOUNT ANY COMPACTION OF THE STORED SOILS**

KEY	
	5 ACRE CELL LABELS AND OUTLINE
	CELL LABELS
	UNFARMABLE AREA OUTLINE
	BLENDING FACILITY
	REMEDIATED STOCK
	CLEAN FILL AREAS
	WELLSITES
	PIPELINES
	40 FOOT PIPELINE R.O.W.
	GATES
	FIELD OFFICE
	REQUEST TO SCRAPE

ENVIROTECH  
NMOC D PERMITTED  
LANDFARM # 2  
5 ACRE CELLS

SCALE: NTS	FIGURE NO.	REV	
PROJECT NO.			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	JKA	1/11/13	BASE DRWN

 **envirotech**

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



## Report Summary

Client: Envirotech

Chain of Custody Number: 15046

Samples Received: 01-04-13

Job Number: 03037-0006

Sample Number(s): 64054-64058

Project Name/Location: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1<sup>st</sup> Event)

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be 'L. J.', written over a horizontal line.

Date:

11/23/13

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



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

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 7	Date Reported:	01-09-13
Laboratory Number:	64055	Date Sampled:	01-03-13
Chain of Custody No:	15046	Date Received:	01-04-13
Sample Matrix:	Soil	Date Extracted:	01-07-13
Preservative:	Cool	Date Analyzed:	01-08-13
Condition:	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	

ND - Parameter not detected at the stated detection limit.

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

Comments: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)





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

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	0108TCAL QA/QC	Date Reported:	01-09-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-13
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
<b>Gasoline Range C5 - C10</b>	01-08-13	9.9960E+02	1.0000E+03	0.04%	0 - 15%
<b>Diesel Range C10 - C28</b>	01-08-13	9.9960E+02	1.0000E+03	0.04%	0 - 15%

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

<b>Duplicate Conc. (mg/Kg)</b>	<b>Sample</b>	<b>Duplicate</b>	<b>% Difference</b>	<b>Accept. Range</b>
<b>Gasoline Range C5 - C10</b>	3.0	4.0	33%	0 - 30%*
<b>Diesel Range C10 - C28</b>	118	124	4.9%	0 - 30%

<b>Spike Conc. (mg/Kg)</b>	<b>Sample</b>	<b>Spike Added</b>	<b>Spike Result</b>	<b>% Recovery</b>	<b>Accept. Range</b>
<b>Gasoline Range C5 - C10</b>	3.0	250	232	91.6%	75 - 125%
<b>Diesel Range C10 - C28</b>	118	250	324	87.8%	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.

\*Note Percent difference outside acceptable limits

Comments: QA/QC for Samples 64044-64058.



EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 7	Date Reported:	01-11-13
Laboratory Number:	64055	Date Sampled:	01-03-13
Chain of Custody:	15046	Date Received:	01-04-13
Sample Matrix:	Soil	Date Analyzed:	01-10-13
Preservative:	Cool	Date Extracted:	01-07-13
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	152 %
	1,4-difluorobenzene	137 %
	Bromochlorobenzene	79.7 %

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

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

Comments: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0110BCAL QA/QC	Date Reported:	01-11-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-10-13
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
	Accept. Range 0-15%				
Benzene	9.4088E-06	9.4088E-06	0.000	ND	0.2
Toluene	9.4563E-06	9.4563E-06	0.000	ND	0.2
Ethylbenzene	1.2394E-05	1.2394E-05	0.000	ND	0.2
p,m-Xylene	1.0525E-05	1.0525E-05	0.000	ND	0.2
o-Xylene	1.2985E-05	1.2985E-05	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	49.4	45.2	0.09	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	41.4	37.8	0.09	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2120	84.8	39 - 150
Toluene	49.4	2500	2280	89.4	46 - 148
Ethylbenzene	ND	2500	2110	84.4	32 - 160
p,m-Xylene	41.4	5000	3660	72.6	46 - 148
o-Xylene	ND	2500	1880	75.2	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 Photolization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

**Comments: QA/QC for Samples 64044-64058.**



## TRACE METAL ANALYSIS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 7	Date Reported:	01-28-13
Laboratory Number:	64055	Date Sampled:	01-03-13
Chain of Custody:	15046	Date Received:	01-16-13
Sample Matrix:	Soil	Date Analyzed:	01-24-13
Preservative:	Cool	Date Digested:	01-21-13
Condition:	Intact	Analysis Needed:	Total RCRA Metals
		Dilution	100

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	3.82	0.01
Barium	224	0.01
Cadmium	1.01	0.01
Chromium	8.90	0.01
Copper	10.7	0.01
Iron	11600	0.01
Lead	8.72	0.01
Mercury	ND	0.01
Manganese	380	0.01
Selenium	0.79	0.01
Silver	5.03	0.01
Zinc	32.8	0.01

ND - Parameter not detected at the stated detection limit.

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

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

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1st Event)**

Client:	QA/QC	Project #:	N/A
Sample ID:	01-24-TM QA/QC	Date Reported:	01-28-13
Laboratory Number:	64045	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total Metals	Date Analyzed:	01-24-13
Condition:	N/A	Date Digested:	01-21-13

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Dilution Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.01	2.93	2.72	7.17%	0% - 30%
Barium	ND	ND	0.01	3320	3640	9.64%	0% - 30%
Cadmium	ND	ND	0.01	0.55	0.60	9.23%	0% - 30%
Chromium	ND	ND	0.01	6.84	7.45	9.00%	0% - 30%
Copper	ND	ND	0.01	7.55	8.20	8.57%	0% - 30%
Iron	ND	ND	0.01	6800	7320	7.65%	0% - 30%
Lead	ND	ND	0.01	6.36	6.95	9.16%	0% - 30%
Mercury	ND	ND	0.01	0.23	0.21	7.97%	0% - 30%
Manganese	ND	ND	0.01	152	167	9.67%	0% - 30%
Selenium	ND	ND	0.01	0.43	0.24	45.3% *	0% - 30%
Silver	ND	ND	0.01	2.09	2.10	0.43%	0% - 30%
Zinc	ND	ND	0.01	30.3	33.3	9.93%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	25.0	2.93	32.5	116%	80% - 120%
Barium	500	3,320	4,530	119%	80% - 120%
Cadmium	25.0	0.55	28.9	113%	80% - 120%
Chromium	50.0	6.84	65.3	115%	80% - 120%
Copper	50.0	7.55	67.8	118%	80% - 120%
Iron	50.0	6,800	8240	120%	80% - 120%
Lead	50.0	6.36	64.9	115%	80% - 120%
Mercury	10.0	0.23	11.5	113%	80% - 120%
Manganese	25.0	152	211	119%	80% - 120%
Selenium	10.0	0.43	11.6	111%	80% - 120%
Silver	10.0	2.09	14.1	116%	80% - 120%
Zinc	50.0	30.3	95.2	119%	80% - 120%

ND - Parameter not detected at the stated detection limit.

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

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

\*Note: Out side acceptance range

Comments: **QA/QC for Sample 64045, 64047-64051, 64053-64055, and 64057**



**EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS**

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 7	Date Reported:	01-21-13
Laboratory Number:	64055	Date Sampled:	01-03-13
Chain of Custody No:	15046	Date Received:	01-16-13
Sample Matrix:	Soil	Date Extracted:	01-16-13
Preservative:	Cool	Date Analyzed:	01-16-13
Condition:	Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	122	13.4

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)



EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	01-21-13
Laboratory Number:	01-16-TPH.QA/QC 64045	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	01-16-13
Preservative:	N/A	Date Extracted:	01-16-13
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	11-15-12	01-16-13	1,680	1,540	8.3%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	13.4

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	15,500	14,100	9.0%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	15,500	2,000	16,800	96.0%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 64045, 64047-64051, 64053-64057, and 64098-64099





## Chloride

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 7	Date Reported:	01-16-13
Lab ID#:	64055	Date Sampled:	01-03-13
Sample Matrix:	Soil	Date Received:	01-10-13
Preservative:	Cool	Date Analyzed:	01-15-13
Condition:	Intact	Chain of Custody:	15046

Parameter	Concentration (mg/Kg)
-----------	-----------------------

**Total Chloride**

**117**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1st Event)**

# CHAIN OF CUSTODY RECORD

15046

Client: <b>Envirotech</b>		Project Name / Location: <b>2013 Sam - Army Treatment Zone monitoring (last client) re 11/13</b>		ANALYSIS / PARAMETERS															
Email results to: <b>Kendra Runna</b>		Sampler Name: <b>K. Peine</b>		Client No.: <b>03037-0006</b>															
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative H <sub>2</sub> O <sub>2</sub> HCl		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE		Sample Cool	Sample Intact
Cell 12	1-3-13	15:40	04054 P301011-01A	14oz Jar			X	X		X					X	X		X	X
Cell 7	1-3-13	15:49	04055 P301011-02A	14oz Jar			X	X		X					X	added		X	X
Cell 8	1-3-13	16:00	04056 P301011-03A	14oz Jar			X	X		X						per vendor		X	X
Cell 13	1-3-13	16:10	04057 P301011-04A	14oz Jar			X	X		X					X	11/10/13		X	X
Cell 18	1-3-13	16:20	04058 P301011-05A	14oz Jar			X	X		X						added 11/10/13 per vendor		X	X
Relinquished by: (Signature) <i>K. Peine</i>		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		1-3-13	6:45	William Joe		11/13	7:40												
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			

**envirotech**  
Analytical Laboratory

# ENVIROTECH Inc.

5798 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
COC #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOS No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Landfarm 2 2013 Semi-Annual  
SOURCE LOCATION: Treatment Zone  
SOURCE LOCATION: Cell # 7 Monitoring (Event #1)  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

DATE STARTED: 1-B-13  
DATE FINISHED: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: K. Peire

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

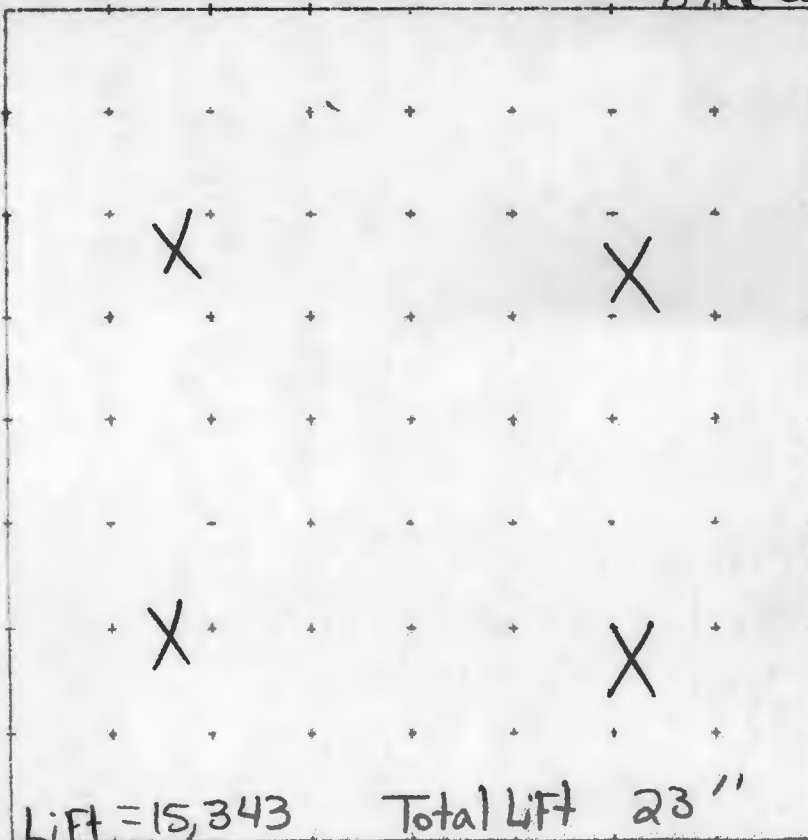
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 Acre Cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE #0 (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS ppm
7	SOB	
3	SOB	
3	Chlor	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 15866

Samples Received: 7/17/2013 3:45:00PM

Job Number: 03037-0006

Work Order: P307053

Project Name/Location: LF 2 2013 Semi-Ann. Tmt  
Zone Monitoring 2nd Event

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 7/24/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
24-Jul-13 16:54

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 19	P307053-01A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.
Cell 16	P307053-02A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.
Cell 7	P307053-03A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.
Cell 14	P307053-04A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.
Cell 10	P307053-05A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.
Cell 6	P307053-06A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.
Cell 9	P307053-07A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.
Cell 8	P307053-08A	Soil	07/17/13	07/17/13	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

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Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com



Envirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	<b>Reported:</b> 24-Jul-13 16:54
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

**Cell 7**  
**P307053-03 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		86.1 %		80-120	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		89.0 %		80-120	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
<i>Surrogate: Fluorobenzene</i>		89.1 %		80-120	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1329024	18-Jul-13	18-Jul-13	EPA 8015D	
Diesel Range Organics (C10-C28)	73.7	5.00	mg/kg	1	1329024	18-Jul-13	18-Jul-13	EPA 8015D	
GRO and DRO Combined Fractions	73.7	5.00	mg/kg	1	1329024	18-Jul-13	18-Jul-13	EPA 8015D	
<b>Total Metals by 6010</b>									
Arsenic	1.89	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Barium	1350	4.71	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Cadmium	ND	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Chromium	6.75	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Copper	5.73	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Iron	6260	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Lead	2.95	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Manganese	139	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Mercury	ND	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Selenium	ND	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Silver	ND	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	
Zinc	26.7	0.94	mg/kg	0.9	1330012	24-Jul-13	24-Jul-13	EPA 6010C	

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Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com

laboratory@envirotech-inc.com



Envirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	
5796 US HWY 64	Project Number:	03037-0006	<b>Reported:</b>
Farmington NM, 87401	Project Manager:	Kendra Runung	24-Jul-13 16:54

**Cell 7**

**P307053-03 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Total Petroleum Hydrocarbons by 418.1</b>									
Total Petroleum Hydrocarbons	2180	20.0	mg/kg	1	1329025	18-Jul-13	18-Jul-13	EPA 418.1	
<b>Cation/Anion Analysis</b>									
Chloride	191	9.99	mg/kg	1	1329026	18-Jul-13	18-Jul-13	EPA 300.0	

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Envirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	Reported:
5796 US HWY 64	Project Number:	03037-0006	24-Jul-13 16:54
Farmington NM, 87401	Project Manager:	Kendra Runung	

**Volatile Organics by EPA 8021 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1329016 - Purge and Trap EPA 5030A**

<b>Blank (1329016-BLK1)</b>				Prepared: 17-Jul-13 Analyzed: 18-Jul-13						
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: Bromochlorobenzene	46.6		ug/L	50.0		93.1	80-120			
Surrogate: 1,4-Difluorobenzene	46.8		"	50.0		93.5	80-120			
Surrogate: Fluorobenzene	46.4		"	50.0		92.7	80-120			

<b>Duplicate (1329016-DUP1)</b>				Source: P307046-01	Prepared: 17-Jul-13 Analyzed: 18-Jul-13					
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: Bromochlorobenzene	51.9		ug/L	50.0		104	80-120			
Surrogate: 1,4-Difluorobenzene	48.5		"	50.0		97.0	80-120			
Surrogate: Fluorobenzene	48.3		"	50.0		96.7	80-120			

<b>Matrix Spike (1329016-MS1)</b>				Source: P307046-01	Prepared: 17-Jul-13 Analyzed: 18-Jul-13					
Benzene	48.3		ug/L	50.0	0.52	95.5	39-150			
Toluene	48.3		"	50.0	0.68	95.3	46-148			
Ethylbenzene	48.2		"	50.0	0.35	95.8	32-160			
p,m-Xylene	96.5		"	100	0.92	95.6	46-148			
o-Xylene	48.1		"	50.0	0.42	95.4	46-148			
Surrogate: Bromochlorobenzene	51.4		"	50.0		103	80-120			
Surrogate: 1,4-Difluorobenzene	47.3		"	50.0		94.7	80-120			
Surrogate: Fluorobenzene	47.3		"	50.0		94.7	80-120			

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Envirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	Reported: 24-Jul-13 16:54
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1329024 - GRO/DRO Extraction EPA 3550C

##### Blank (1329024-BLK1)

Prepared & Analyzed: 18-Jul-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg
Diesel Range Organics (C10-C28)	ND	5.00	"
GRO and DRO Combined Fractions	ND	5.00	"

##### Duplicate (1329024-DUP1)

Source: P307051-01

Prepared & Analyzed: 18-Jul-13

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	ND	30
Diesel Range Organics (C10-C28)	ND	4.99	"	ND	30

##### Matrix Spike (1329024-MS1)

Source: P307051-01

Prepared & Analyzed: 18-Jul-13

Gasoline Range Organics (C6-C10)	258	5.26	mg/kg	263	ND	98.2	75-125
Diesel Range Organics (C10-C28)	265	5.26	"	263	ND	101	75-125

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Envirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	Reported: 24-Jul-13 16:54
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Total Metals by 6010 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1330012 - Metal Solid Digestion EPA 3051A

##### Blank (1330012-BLK1)

Prepared & Analyzed: 24-Jul-13

Arsenic	ND	1.00	mg/kg
Barium	ND	5.00	"
Cadmium	ND	1.00	"
Chromium	ND	1.00	"
Copper	ND	1.00	"
Iron	2.25	1.00	"
Lead	ND	1.00	"
Manganese	ND	1.00	"
Mercury	ND	1.00	"
Selenium	ND	1.00	"
Silver	ND	1.00	"
Zinc	2.57	1.00	"

##### Duplicate (1330012-DUP1)

Source: P307048-01

Prepared & Analyzed: 24-Jul-13

Arsenic	2.99	0.95	mg/kg	2.84	5.18	30
Barium	245	4.76	"	262	6.37	30
Cadmium	1.63	0.95	"	1.71	4.95	30
Chromium	9.50	0.95	"	10.8	12.7	30
Copper	11.3	0.95	"	10.9	3.48	30
Iron	9280	0.95	"	9840	5.82	30
Lead	6.21	0.95	"	6.32	1.75	30
Manganese	218	0.95	"	238	8.64	30
Mercury	ND	0.95	"	ND		30
Selenium	1.04	0.95	"	ND		30
Silver	ND	0.95	"	ND		30
Zinc	44.6	0.95	"	48.1	7.63	30

##### Matrix Spike (1330012-MS1)

Source: P307048-01

Prepared & Analyzed: 24-Jul-13

Arsenic	0.25	mg/L	0.250	0.03	87.0	75-125	
Barium	8.77	"	5.00	2.61	123	75-125	
Cadmium	0.23	"	0.250	0.02	86.6	75-125	
Chromium	0.60	"	0.500	0.11	98.4	75-125	
Copper	0.65	"	0.500	0.11	107	75-125	
Iron	130	"	0.500	98.1	NR	75-125	SPK1
Lead	0.50	"	0.500	0.06	86.5	75-125	
Manganese	3.48	"	0.250	2.37	443	75-125	SPK1
Mercury	0.08	"	0.100	0.002	79.6	75-125	
Selenium	0.09	"	0.100	0.007	80.5	75-125	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
24-Jul-13 16:54

**Total Metals by 6010 - Quality Control**

**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1330012 - Metal Solid Digestion EPA 3051A**

**Matrix Spike (1330012-MS1)**

Source: P307048-01

Prepared & Analyzed: 24-Jul-13

Silver	0.10		mg/L	0.100	-0.001	99.1	75-125			
Zinc	1.04		"	0.500	0.48	112	75-125			

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Envirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	Reported:
5796 US HWY 64	Project Number:	03037-0006	24-Jul-13 16:54
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Total Petroleum Hydrocarbons by 418.1 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1329025 - 418 Freon Extraction

##### Blank (1329025-BLK1)

Prepared & Analyzed: 18-Jul-13

Total Petroleum Hydrocarbons ND 20.0 mg/kg

##### Duplicate (1329025-DUP1)

Source: P307053-01

Prepared & Analyzed: 18-Jul-13

Total Petroleum Hydrocarbons 4880 200 mg/kg 4990 2.28 30

##### Matrix Spike (1329025-MS1)

Source: P307053-01

Prepared & Analyzed: 18-Jul-13

Total Petroleum Hydrocarbons 7140 200 mg/kg 2000 4990 108 80-120

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Envirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	24-Jul-13 16:54

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch 1329026 - Anion Extraction EPA 300.0

##### Blank (1329026-BLK1)

Prepared & Analyzed: 18-Jul-13

Chloride ND 10.0 mg/kg

##### Duplicate (1329026-DUP1)

Source: P307050-01

Prepared & Analyzed: 18-Jul-13

Chloride 451 10.0 mg/kg 443 1.97 30

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
24-Jul-13 16:54

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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# CHAIN OF CUSTODY RECORD

15866

Client:

Envirotech

Project Name / Location:

2nd Quarter Treatment Zone Sampling

Email results to:

Kendra Running

Sampler Name:

K. Reine

Client Phone No.:

Client No.:

03037-0006

ANALYSIS / PARAMETERS

Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA Metals <small>Cu, Mn, Fe, Zn</small>	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HNO <sub>3</sub>	HCl	Cell												
Cell 19	7-17-13	13:30	P307053-01	14oz Jars				X	X	X						X	X	X	
Cell 16	7-17-13	13:45	P307053-02	14oz Jars				X	X	X						X	X	X	
Cell 7	7-17-13	14:00	P307053-03	14oz Jars				X	X	X						X	X	X	
Cell 14	7-17-13	14:20	P307053-04	14oz Jars				X	X	X						X	X	X	
Cell 10	7-17-13	14:35	P307053-05	14oz Jars				X	X	X						X	X	X	
Cell 6	7-17-13	14:43	P307053-06	14oz Jars				X	X	X						X	X	X	
Cell 9	7-17-13	15:00	P307053-07	14oz Jars				X	X	X						X	X	X	
Cell 8	7-17-13	15:10	P307053-08	14oz Jars				X	X	X						X	X	X	
Relinquished by: (Signature) <i>Angie Reine</i> Date Time 7/17/13 15:45																			
Relinquished by: (Signature) Received by: (Signature) Date Time 7/17/13 15:45																			

Sample Matrix  
☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐

☐ Sample(s) dropped off after hours to secure drop off area.



# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Land Farm 2 2013 Semi-Annual  
SOURCE LOCATION: Treatment Zone  
SOURCE LOCATION: Cell 7 Monitoring  
SOURCE LOCATION: (Event #2)  
FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

DATE STARTED: 7-17-13  
DATE FINISHED: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: K. Peine

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:

NEAREST WATER SOURCE/TYPE:

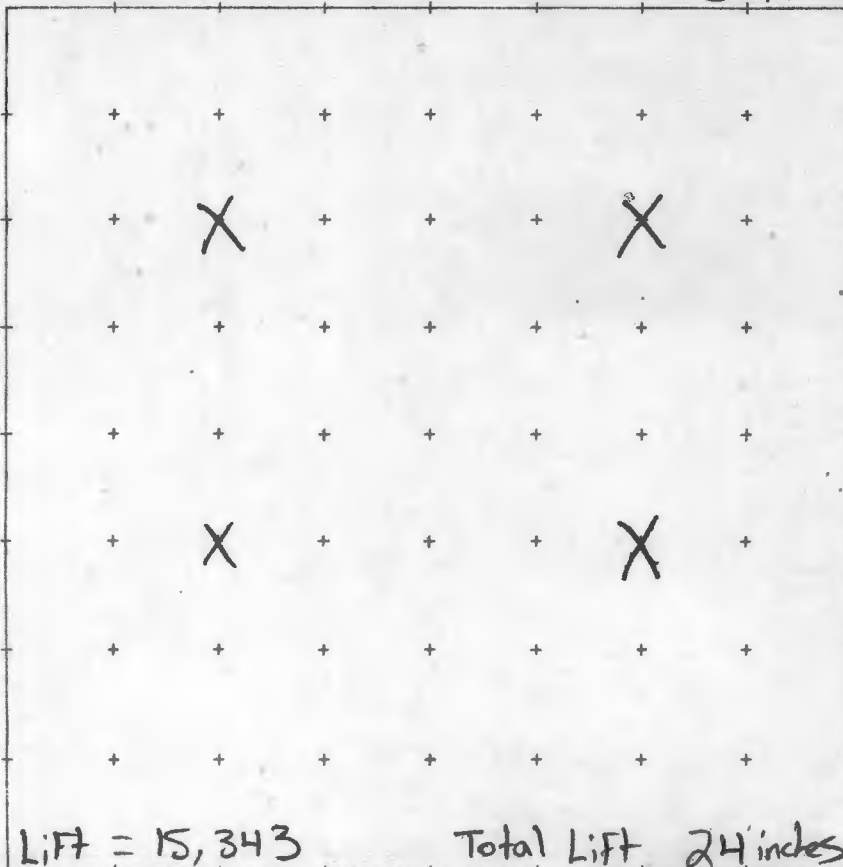
NEAREST SURFACE WATER:

MAX TPH PER NMOC:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5-Acre Cell



## OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:
7	8015	
7	8021	
7	TPH	
7	300	
7	PERA8 + Cu, Mn, Fe, Zn	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.



State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



December 11, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated December 10, 2013 and received December 11, 2013, to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 13**.

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

Brad A. Jones  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



December 10, 2013

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

RECEIVED OGD

2013 DEC 11 P 1:34

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELL 13 IN LANDFARM #2

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of a successive lift at Envirotech's Land Farm #2 for cell 13 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cell (cell 13) has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX, benzene, TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

Cell 13: 12660 cy (~19")

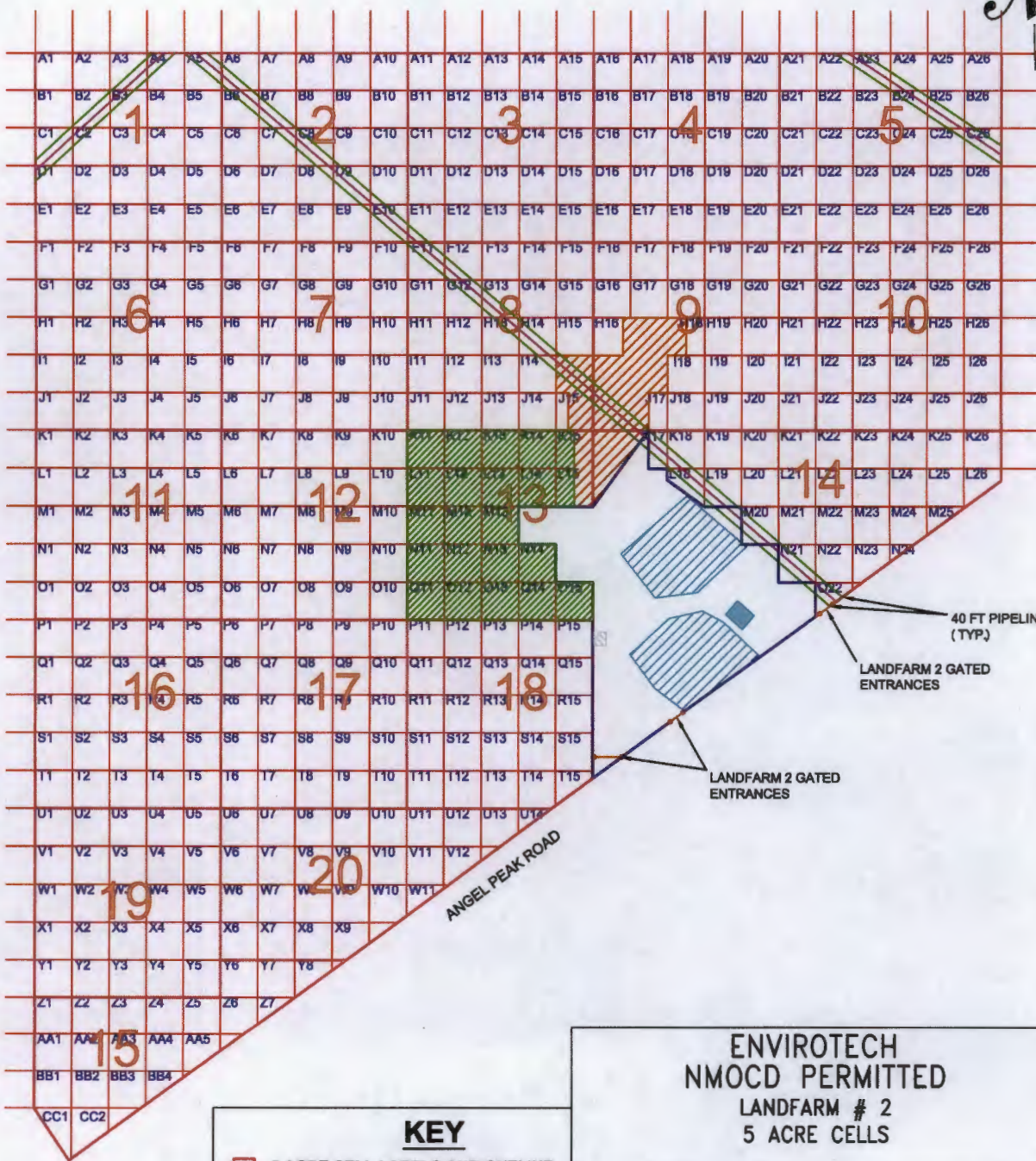
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

  
Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)



### KEY

- 1 5 ACRE CELL LABELS AND OUTLINE
- A1 CELL LABELS
- UNFARMABLE AREA OUTLINE
- BLENDING FACILITY
- BLENDING STOCKPILES
- WELLSITES
- PIPELINES
- 40 FOOT PIPELINE R.O.W.
- GATES
- FIELD OFFICE

## ENVIROTECH NMOC PERMITTED LANDFARM # 2 5 ACRE CELLS

SCALE: NTS

FIGURE NO.

REV

PROJECT NO.

REVISIONS

NO. DATE BY

DESCRIPTION

MAP DRWN JKA

1/11/13

BASE DRWN



# envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16381

Samples Received: 11/22/2013 7:00:00AM

Job Number: 03037-0006

Work Order: P311077

Project Name/Location: Landfarm 2 Closure  
Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 12/6/13

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
06-Dec-13 17:06

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 13 #3	P311077-01A	Soil	11/21/13	11/22/13	Glass Jar, 4 oz.
Cell 9 #3	P311077-02A	Soil	11/21/13	11/22/13	Glass Jar, 4 oz.
Cell 14 #3	P311077-03A	Soil	11/21/13	11/22/13	Glass Jar, 4 oz.

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laboratory@envirotech-nm.com



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
06-Dec-13 17:06

**Cell 13 #3**  
**P311077-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %		80-120	1349009	12/03/13	12/05/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		99.9 %		80-120	1349009	12/03/13	12/05/13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	5.18	4.98	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8015D	
Diesel Range Organics (C10-C28)	62.6	29.9	mg/kg	1	1349008	12/03/13	12/04/13	EPA 8015D	
GRO and DRO Combined Fractions	67.8	4.98	mg/kg		[CALC]	12/03/13	12/05/13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	186	9.92	mg/kg	1	1349002	12/02/13	12/02/13	EPA 300.0	

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 06-Dec-13 17:06
--	---	------------------------------

**Volatile Organics by EPA 8021 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1349009 - Purge and Trap EPA 5030A**

<b>Blank (1349009-BLK1)</b>			Prepared: 03-Dec-13 Analyzed: 05-Dec-13							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	52.3		ug/L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	56.1		"	50.0		112	80-120			

<b>Duplicate (1349009-DUP1)</b>			Source: P311076-01		Prepared: 03-Dec-13 Analyzed: 05-Dec-13					
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	50.9		ug/L	50.0		102	80-120			
Surrogate: Bromochlorobenzene	53.5		"	50.0		107	80-120			

<b>Matrix Spike (1349009-MS1)</b>			Source: P311076-01		Prepared: 03-Dec-13 Analyzed: 05-Dec-13					
Benzene	42.4		ug/L	50.0	ND	84.8	39-150			
Toluene	47.4		"	50.0	ND	94.7	46-148			
Ethylbenzene	47.6		"	50.0	ND	95.1	32-160			
p,m-Xylene	94.5		"	100	ND	94.5	46-148			
o-Xylene	47.6		"	50.0	ND	95.2	46-148			
Surrogate: 1,3-Dichlorobenzene	48.7		"	50.0		97.3	80-120			
Surrogate: Bromochlorobenzene	50.9		"	50.0		102	80-120			

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Envirotech	Project Name:	Landfarm 2 Closure Sampling	Reported: 06-Dec-13 17:06
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349008 - DRO Extraction EPA 3550C</b>										
<b>Blank (1349008-BLK1)</b>				Prepared: 03-Dec-13 Analyzed: 05-Dec-13						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1349008-DUP1)</b>				Source: P311074-01 Prepared & Analyzed: 03-Dec-13						
Diesel Range Organics (C10-C28)	1540	30.0	mg/kg		1690			8.99	30	
<b>Matrix Spike (1349008-MS1)</b>				Source: P311074-01 Prepared & Analyzed: 03-Dec-13						
Diesel Range Organics (C10-C28)	1730		mg/L	250	1610	46.6	75-125			SPK1

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Envirotech	Project Name:	Landfarm 2 Closure Sampling	Reported:
5796 US HWY 64	Project Number:	03037-0006	06-Dec-13 17:06
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1349009 - Purge and Trap EPA 5030A

**Blank (1349009-BLK1)** Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

**Duplicate (1349009-DUP1)** Source: P311076-01 Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg ND 30

**Matrix Spike (1349009-MS1)** Source: P311076-01 Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Gasoline Range Organics (C6-C10) 0.49 mg/L 0.450 0.09 90.0 75-125

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Envirotech	Project Name:	Landfarm 2 Closure Sampling	Reported: 06-Dec-13 17:06
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349002 - Anion Extraction EPA 300.0</b>										
<b>Blank (1349002-BLK1)</b>				Prepared & Analyzed: 02-Dec-13						
Chloride	ND	9.92	mg/kg							
<b>LCS (1349002-BS1)</b>				Prepared & Analyzed: 02-Dec-13						
Chloride	504	9.99	mg/kg	500		101	90-110			
<b>Matrix Spike (1349002-MS1)</b>				Source: P312002-01		Prepared & Analyzed: 02-Dec-13				
Chloride	494	9.94	mg/kg	497	ND	99.4	80-120			
<b>Matrix Spike Dup (1349002-MSD1)</b>				Source: P312002-01		Prepared & Analyzed: 02-Dec-13				
Chloride	495	9.88	mg/kg	494	ND	100	80-120	0.0710	20	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
06-Dec-13 17:06

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Page 11 of 11

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# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0815

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0006  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Envirotech Land Farm  
SOURCE LOCATION: Land Farm 2  
SOURCE LOCATION: Cell 13-3  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 11-21-13  
DATE FINISHED: 11-21-13

ENVIRONMENTAL  
SPECIALIST: \_\_\_\_\_

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

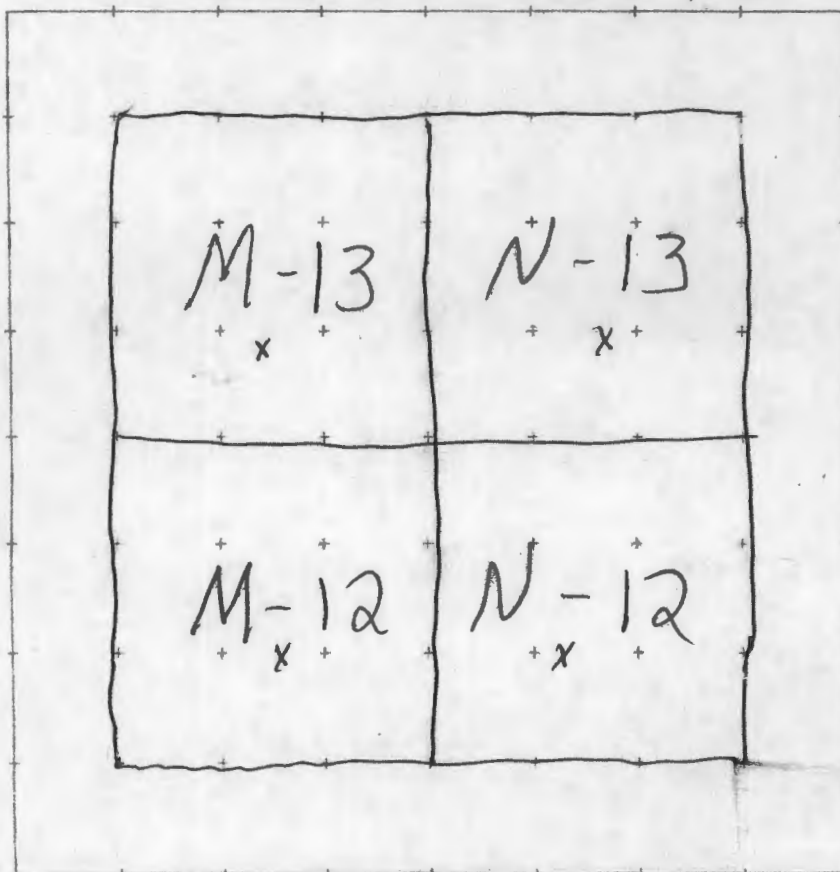
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER  
MAX TPH PER NMCD:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: NTS



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE FID (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

8015  
8021  
C1-

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



December 11, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated December 9, 2013 and received December 11, 2013, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 39, 45, 56, and 60.**

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

**Brad A. Jones**  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



December 9, 2013

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

RECEIVED OCD  
2013 DEC 11 P 1:35

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELLS 39, 45, 56 AND 60 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of a successive lift at Envirotech's Land Farm #2 for cell 39, 45, 56 AND 60 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cells (cells 39, 45, 56 AND 60) has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX, benzene, TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

Cell 39: 8467 cy (~12")	Cell 45: 11918 cy (~18")	Cell 56: 11744 cy (~17")
Cell 60: 9220 cy (~14")		

Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

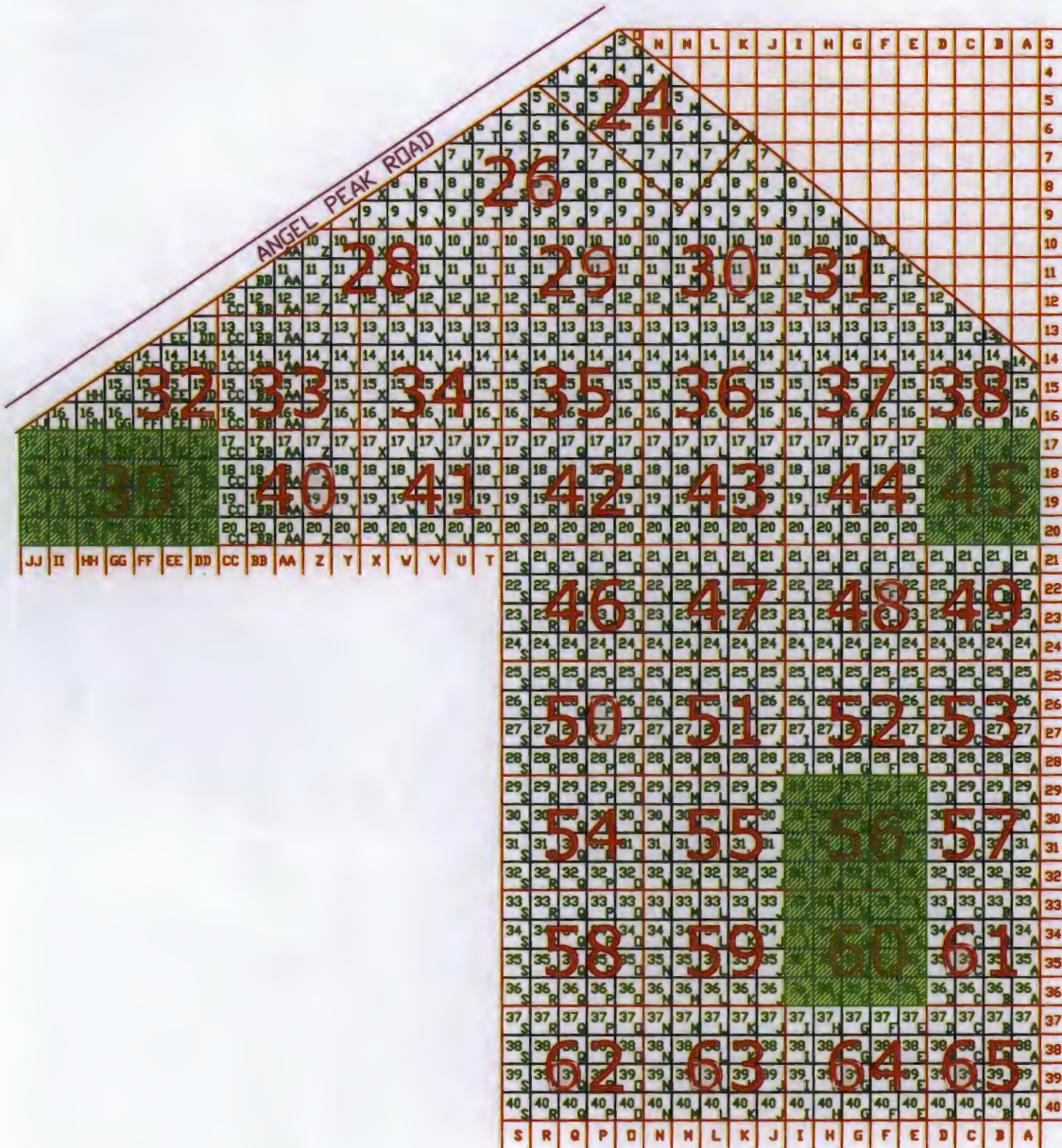
Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

  
Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

  
Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)





# LEGEND

62 5 ACRE CELL

29 CELL REQUESTING LIFT

ENVIROTECH  
NMOCD PERMITTED  
LANDFARM # 2  
UNIT 5

SCALE: 1=100'

PROJECT NO.

FIGURE NO.

REV

REVISIONS

NO. DATE BY

DESCRIPTION

MAP DRWN JMK

12-7-09

BASE DRWN



envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615





## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16386

Samples Received: 11/27/2013 7:25:00AM

Job Number: 03037-0006

Work Order: P311084

Project Name/Location: 4th Quarter Closure  
Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', written over a horizontal line.

Date: 12/6/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: 4th Quarter Closure Sampling  
Project Number: 03037-0006  
Project Manager: Eric Liese

**Reported:**  
06-Dec-13 17:25

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
45-3	P311084-01A	Soil	11/26/13	11/27/13	Glass Jar, 4 oz.
38-3	P311084-02A	Soil	11/26/13	11/27/13	Glass Jar, 4 oz.
30-3	P311084-03A	Soil	11/26/13	11/27/13	Glass Jar, 4 oz.
39-3	P311084-04A	Soil	11/26/13	11/27/13	Glass Jar, 4 oz.
32-3	P311084-05A	Soil	11/26/13	11/27/13	Glass Jar, 4 oz.

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Laboratory [envirotech-inc.com](http://envirotech-inc.com)



Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: 4th Quarter Closure Sampling Project Number: 03037-0006 Project Manager: Eric Liese	Reported: 06-Dec-13 17:25
--	---	------------------------------

**45-3**  
**P311084-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8021B	
Surrogate: Bromochlorobenzene		91.3 %		80-120	1349009	12-03-13	12-05-13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		86.1 %		80-120	1349009	12-03-13	12-05-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1349009	12/03/13	12/05/13	EPA 8015D	
Diesel Range Organics (C10-C28)	91.1	30.0	mg/kg	1	1349014	12/03/13	12/05/13	EPA 8015D	
GRO and DRO Combined Fractions	91.1	4.99	mg/kg		[CALC]	12/03/13	12/05/13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	33.9	9.88	mg/kg	1	1349010	12/03/13	12/03/13	EPA 300.0	

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: 4th Quarter Closure Sampling Project Number: 03037-0006 Project Manager: Eric Liese	Reported: 06-Dec-13 17:25
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### 39-3

#### P311084-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		99.2 %		80-120	1349009	12/03/13	12/06/13	EPA 8021B	
Surrogate: Bromochlorobenzene		88.8 %		80-120	1349009	12/03/13	12/06/13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1349009	12/03/13	12/06/13	EPA 8015D	
Diesel Range Organics (C10-C28)	40.3	29.9	mg/kg	1	1349014	12/03/13	12/05/13	EPA 8015D	
GRO and DRO Combined Fractions	40.3	4.99	mg/kg		[CALC]	12/03/13	12/06/13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	ND	9.78	mg/kg	1	1349010	12/03/13	12/03/13	EPA 300.0	

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Envirotech	Project Name:	4th Quarter Closure Sampling	Reported: 06-Dec-13 17:25
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Eric Liese	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1349009 - Purge and Trap EPA 5030A

##### Blank (1349009-BLK1)

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	52.3		ug/L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	56.1		"	50.0		112	80-120			

##### Duplicate (1349009-DUP1)

Source: P311076-01

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	50.9		ug/L	50.0		102	80-120			
Surrogate: Bromochlorobenzene	53.5		"	50.0		107	80-120			

##### Matrix Spike (1349009-MS1)

Source: P311076-01

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Benzene	42.4		ug/L	50.0	ND	84.8	39-150			
Toluene	47.4		"	50.0	ND	94.7	46-148			
Ethylbenzene	47.6		"	50.0	ND	95.1	32-160			
p,m-Xylene	94.5		"	100	ND	94.5	46-148			
o-Xylene	47.6		"	50.0	ND	95.2	46-148			
Surrogate: 1,3-Dichlorobenzene	48.7		"	50.0		97.3	80-120			
Surrogate: Bromochlorobenzene	50.9		"	50.0		102	80-120			

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Envirotech	Project Name:	4th Quarter Closure Sampling	Reported: 06-Dec-13 17:25
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Eric Liese	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1349009 - Purge and Trap EPA 5030A

<b>Blank (1349009-BLK1)</b>			Prepared: 03-Dec-13 Analyzed: 05-Dec-13							
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
<b>Duplicate (1349009-DUP1)</b>			Source: P311076-01 Prepared: 03-Dec-13 Analyzed: 05-Dec-13							
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
<b>Matrix Spike (1349009-MS1)</b>			Source: P311076-01 Prepared: 03-Dec-13 Analyzed: 05-Dec-13							
Gasoline Range Organics (C6-C10)	0.49		mg/L	0.450	0.09	90.0	75-125			

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Envirotech	Project Name:	4th Quarter Closure Sampling	Reported: 06-Dec-13 17:25
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Eric Liese	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349014 - DRO Extraction EPA 3550C</b>										
<b>Blank (1349014-BLK1)</b>				Prepared: 03-Dec-13 Analyzed: 04-Dec-13						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
<b>Duplicate (1349014-DUP1)</b>				Source: P312010-01 Prepared: 03-Dec-13 Analyzed: 04-Dec-13						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
<b>Matrix Spike (1349014-MS1)</b>				Source: P312010-01 Prepared: 03-Dec-13 Analyzed: 04-Dec-13						
Diesel Range Organics (C10-C28)	217		mg/L	250	15.6	80.6	75-125			

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Envirotech	Project Name:	4th Quarter Closure Sampling	Reported: 06-Dec-13 17:25
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Eric Liese	

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349010 - Anion Extraction EPA 300.0</b>										
<b>Blank (1349010-BLK1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	ND	9.89	mg/kg							
<b>LCS (1349010-BS1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	531	9.84	mg/kg	492		108	90-110			
<b>Matrix Spike (1349010-MS1)</b>				Source: P311076-01 Prepared & Analyzed: 03-Dec-13						
Chloride	1130	9.89	mg/kg	495	552	117	80-120			
<b>Matrix Spike Dup (1349010-MSD1)</b>				Source: P311076-01 Prepared & Analyzed: 03-Dec-13						
Chloride	1150	9.90	mg/kg	495	552	121	80-120	1.60	20	SPK1

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: 4th Quarter Closure Sampling  
Project Number: 03037-0006  
Project Manager: Eric Liese

Reported:  
06-Dec-13 17:25

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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# CHAIN OF CUSTODY RECORD

16386

Client:

*Envirotech*

Project Name / Location:

*4th quarter closure sampling*

Email results to:

*Kendra*

Sampler Name:

*Eric Lisse*

Client Phone No.:

Client No.:

ANALYSIS / PARAMETERS

Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
					HNO <sub>3</sub>	HCl													
45-3	11-26-13	13:20	P311084-01	1 4oz jar			X	X									X	X	
38-3		14:50	P311084-02														X	X	
30-3		14:40	P311084-03														X	X	
39-3		12:05	P311084-04														X	X	
32-3		12:15	P311084-05														X	X	
Relinquished by: (Signature)				Date	Time	Received by: (Signature)												Date	Time
<i>[Signature]</i>				11-26-13	6:50	<i>Muina</i>												11-27-13	7:35
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			



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# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Envirotech Landfarm  
SOURCE LOCATION: Landfarm 2-5  
SOURCE LOCATION: 45-3  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 11-26-13  
DATE FINISHED: 11-26-13

ENVIRONMENTAL  
SPECIALIST: \_\_\_\_\_

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS FROM WELLHEAD.

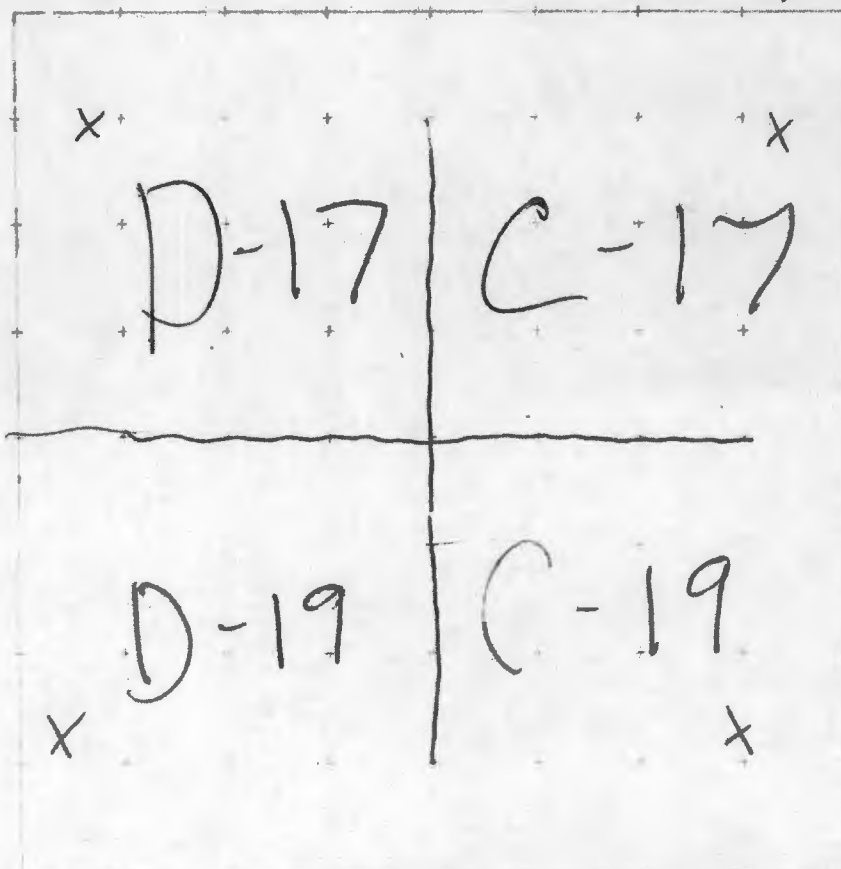
DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE

NTS



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE Pd (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS

DEPTH
WELL-HEAD
SURFACE FLOW DIR
ESTIMATED GROUNDWATER FLOW DIR

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0815

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOS No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Envirotech Landfarm  
SOURCE LOCATION: Landfarm 2-5  
SOURCE LOCATION: 39-5  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 11-26-13  
DATE FINISHED: 11-26-13

ENVIRONMENTAL  
SPECIALIST: \_\_\_\_\_

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP SAMPLES: \_\_\_\_\_  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

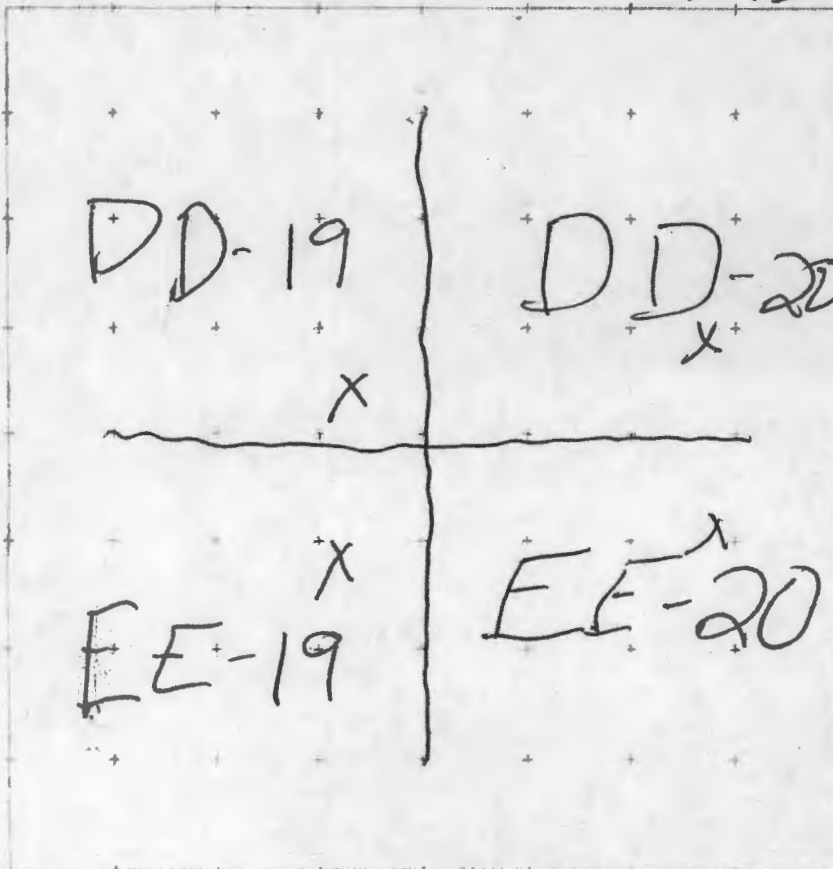
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: NTS



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PD (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM

NORTH

WELLHEAD

SURFACE  
FLOW DIR

ESTIMATED  
GROUNDWATER  
FLOW DIR.



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16392

Samples Received: 12/3/2013 7:15:00AM

Job Number: 03037-0006

Work Order: P312009

Project Name/Location: Landfarm 2-5 Closure  
Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 12/6/13

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2-5 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
06-Dec-13 17:37

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
50-2	P312009-01A	Soil	12/02/13	12/03/13	Glass Jar, 4 oz.
53-2	P312009-02A	Soil	12/02/13	12/03/13	Glass Jar, 4 oz.
56-2	P312009-03A	Soil	12/02/13	12/03/13	Glass Jar, 4 oz.

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2-5 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 06-Dec-13 17:37
--	---	------------------------------

56-2

P312009-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		98.5 %		80-120	1349020	12-04-13	12-07-13	EPA 8021B	
Surrogate: Bromochlorobenzene		97.7 %		80-120	1349020	12-04-13	12-07-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1349020	12/04/13	12/07/13	EPA 8015D	
Diesel Range Organics (C10-C28)	73.4	30.0	mg/kg	1	1349019	12/04/13	12/04/13	EPA 8015D	
GRO and DRO Combined Fractions	73.4	5.00	mg/kg		[CALC]	12/04/13	12/07/13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	21.2	9.91	mg/kg	1	1349011	12/03/13	12/03/13	EPA 300.0	

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Envirotech	Project Name:	Landfarm 2-5 Closure Sampling	Reported:
5796 US HWY 64	Project Number:	03037-0006	06-Dec-13 17:37
Farmington NM, 87401	Project Manager:	Kendra Runung	

**Volatile Organics by EPA 8021 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1349020 - Purge and Trap EPA 5030A**

<b>Blank (1349020-BLK1)</b>			Prepared: 04-Dec-13 Analyzed: 05-Dec-13							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	47.7		ug/L	50.0		95.5	80-120			
Surrogate: Bromochlorobenzene	49.0		"	50.0		98.0	80-120			

<b>Duplicate (1349020-DUP1)</b>			Source: P312004-01		Prepared: 04-Dec-13 Analyzed: 06-Dec-13					
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	35.6		ug/L	50.0		71.2	80-120			Surr2
Surrogate: Bromochlorobenzene	33.6		"	50.0		67.1	80-120			Surr2

<b>Matrix Spike (1349020-MS1)</b>			Source: P312004-01		Prepared: 04-Dec-13 Analyzed: 06-Dec-13					
Benzene	50.2		ug/L	50.0	ND	100	39-150			
Toluene	51.5		"	50.0	ND	103	46-148			
Ethylbenzene	47.5		"	50.0	ND	95.1	32-160			
p,m-Xylene	96.1		"	100	ND	96.1	46-148			
o-Xylene	46.5		"	50.0	ND	93.1	46-148			
Surrogate: 1,3-Dichlorobenzene	47.7		"	50.0		95.4	80-120			
Surrogate: Bromochlorobenzene	42.7		"	50.0		85.4	80-120			

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Envirotech	Project Name:	Landfarm 2-5 Closure Sampling	Reported: 06-Dec-13 17:37
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349019 - DRO Extraction EPA 3550C</b>										
<b>Blank (1349019-BLK1)</b>				Prepared: 04-Dec-13 Analyzed: 05-Dec-13						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1349019-DUP1)</b>				Source: P312006-01 Prepared: 04-Dec-13 Analyzed: 05-Dec-13						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
<b>Matrix Spike (1349019-MS1)</b>				Source: P312006-01 Prepared: 04-Dec-13 Analyzed: 05-Dec-13						
Diesel Range Organics (C10-C28)	162		mg/L	250	4.29	63.2	75-125			SPK1

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Envirotech	Project Name:	Landfarm 2-5 Closure Sampling	Reported: 06-Dec-13 17:37
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349020 - Purge and Trap EPA 5030A</b>										
<b>Blank (1349020-BLK1)</b>					Prepared: 04-Dec-13 Analyzed: 05-Dec-13					
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg							
<b>Duplicate (1349020-DUP1)</b>					Source: P312004-01 Prepared: 04-Dec-13 Analyzed: 06-Dec-13					
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
<b>Matrix Spike (1349020-MS1)</b>					Source: P312004-01 Prepared: 04-Dec-13 Analyzed: 06-Dec-13					
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	0.08	88.0	75-125			

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laboratory@envirotech-inc.com



Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2-5 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 06-Dec-13 17:37
--	---	------------------------------

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349010 - Anion Extraction EPA 300.0</b>										
<b>Blank (1349010-BLK1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	ND	9.89	mg/kg							
<b>LCS (1349010-BS1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	531	9.84	mg/kg	492		108	90-110			
<b>Matrix Spike (1349010-MS1)</b>				Source: P311076-01 Prepared & Analyzed: 03-Dec-13						
Chloride	1130	9.89	mg/kg	495	552	117	80-120			
<b>Matrix Spike Dup (1349010-MSD1)</b>				Source: P311076-01 Prepared & Analyzed: 03-Dec-13						
Chloride	1150	9.90	mg/kg	495	552	121	80-120	1.60	20	SPK1

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2-5 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
06-Dec-13 17:37

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349011 - Anion Extraction EPA 300.0</b>										
<b>Blank (1349011-BLK1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	ND	9.94	mg/kg							
<b>LCS (1349011-BS1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	507	9.96	mg/kg	498		102	90-110			
<b>Matrix Spike (1349011-MS1)</b>				Source: P312005-01 Prepared: 03-Dec-13 Analyzed: 04-Dec-13						
Chloride	544	9.93	mg/kg	497	36.9	102	80-120			
<b>Matrix Spike Dup (1349011-MSD1)</b>				Source: P312005-01 Prepared: 03-Dec-13 Analyzed: 04-Dec-13						
Chloride	546	9.98	mg/kg	499	36.9	102	80-120	0.396	20	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2-5 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
06-Dec-13 17:37

#### Notes and Definitions

Surr2 Surrogate recovery was below acceptable limits.  
SPK1 The spike recovery for this QC sample is outside of control limits.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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## 16392

ANALYSIS / PARAMETERS

Land from 2-5 Closure Sampling

03037-0006

[illegible]

☒ Sample(s) dropped off after hours to secure drop off area.

**envirotech**  
Analytical Laboratory

# ENVIROTECH Inc.

5796 US HWY. 84, FARMINGTON, NM 87401  
(505) 832-0815

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOS No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Envirotech Landfarm  
SOURCE LOCATION: Landfarm 2-5  
SOURCE LOCATION: 56-2  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 12-2-13  
DATE FINISHED: 12-2-13

ENVIRONMENTAL  
SPECIALIST: \_\_\_\_\_

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP SAMPLES: \_\_\_\_\_  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

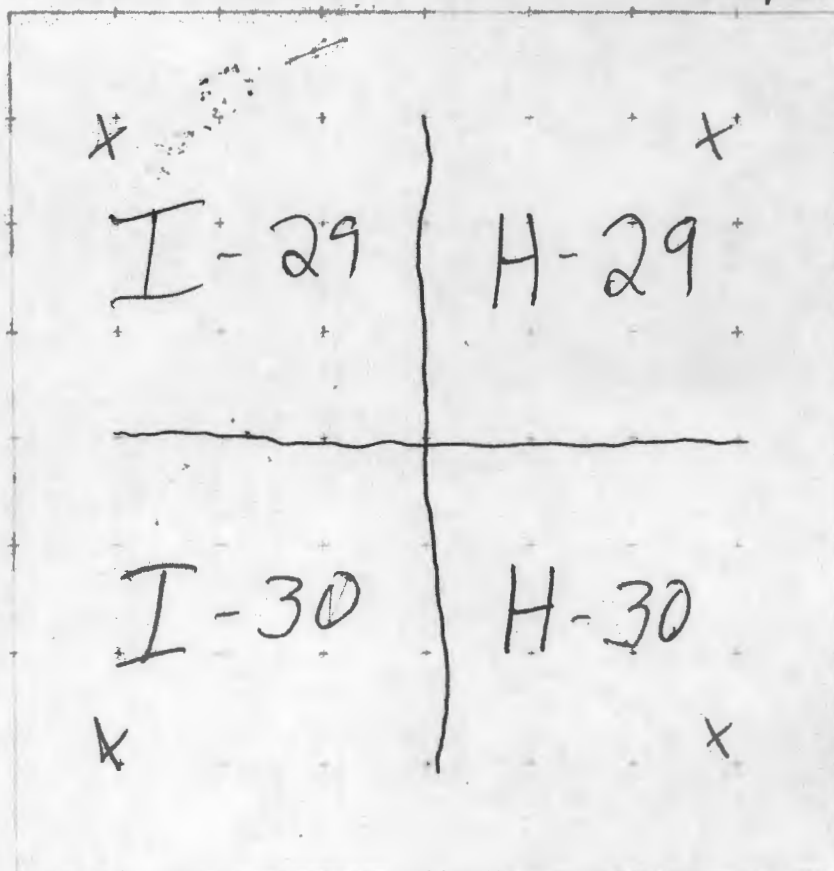
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
1000=5

## FACILITY DIAGRAM

GRID SCALE: NTS



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE FD (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM

NORTH

WELLHEAD

SURFACE  
FLOW DIR

ESTIMATED  
GROUNDWATER  
FLOW DIR



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16380

Samples Received: 11/22/2013 7:00:00AM

Job Number: 03037-0006

Work Order: P311076

Project Name/Location: Landfarm 2-5 Closure  
Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 12/6/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2-5 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
06-Dec-13 16:59

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 57 #3	P311076-01A	Soil	11/21/13	11/22/13	Glass Jar, 4 oz.
Cell 60 #3	P311076-02A	Soil	11/21/13	11/22/13	Glass Jar, 4 oz.

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2-5 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 06-Dec-13 16:59
--	---	------------------------------

**Cell 60 #3**  
**P311076-02 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8021B	
Surrogate: Bromochlorobenzene		100 %	80-120			1349009	12 03 13	12 05 13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.1 %	80-120			1349009	12 03 13	12 05 13	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1		1349009	12/03/13	12/05/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1349008	12/03/13	12/04/13	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.98	mg/kg			[CALC]	12/03/13	12/05/13	EPA 8015D	
Cation/Anion Analysis										
Chloride	70.0	9.98	mg/kg	1		1349010	12/03/13	12/03/13	EPA 300.0	

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Envirotech	Project Name:	Landfarm 2-5 Closure Sampling	Reported: 06-Dec-13 16:59
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1349009 - Purge and Trap EPA 5030A

##### Blank (1349009-BLK1)

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	52.3		ug/L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	56.1		"	50.0		112	80-120			

##### Duplicate (1349009-DUP1)

Source: P311076-01

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	50.9		ug/L	50.0		102	80-120			
Surrogate: Bromochlorobenzene	53.5		"	50.0		107	80-120			

##### Matrix Spike (1349009-MS1)

Source: P311076-01

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Benzene	42.4		ug/L	50.0	ND	84.8	39-150			
Toluene	47.4		"	50.0	ND	94.7	46-148			
Ethylbenzene	47.6		"	50.0	ND	95.1	32-160			
p,m-Xylene	94.5		"	100	ND	94.5	46-148			
o-Xylene	47.6		"	50.0	ND	95.2	46-148			
Surrogate: 1,3-Dichlorobenzene	48.7		"	50.0		97.3	80-120			
Surrogate: Bromochlorobenzene	50.9		"	50.0		102	80-120			

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Envirotech	Project Name:	Landfarm 2-5 Closure Sampling	Reported: 06-Dec-13 16:59
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349008 - DRO Extraction EPA 3550C</b>										
<b>Blank (1349008-BLK1)</b>				Prepared: 03-Dec-13 Analyzed: 05-Dec-13						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1349008-DUP1)</b>				Source: P311074-01 Prepared & Analyzed: 03-Dec-13						
Diesel Range Organics (C10-C28)	1540	30.0	mg/kg		1690			8.99	30	
<b>Matrix Spike (1349008-MS1)</b>				Source: P311074-01 Prepared & Analyzed: 03-Dec-13						
Diesel Range Organics (C10-C28)	1730		mg/L	250	1610	46.6	75-125			SPK1

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2-5 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
06-Dec-13 16:59

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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#### Batch 1349009 - Purge and Trap EPA 5030A

##### Blank (1349009-BLK1)

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

##### Duplicate (1349009-DUP1)

Source: P311076-01

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg ND 30

##### Matrix Spike (1349009-MS1)

Source: P311076-01

Prepared: 03-Dec-13 Analyzed: 05-Dec-13

Gasoline Range Organics (C6-C10) 0.49 mg/L 0.450 0.09 90.0 75-125

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2-5 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 06-Dec-13 16:59
--	---	------------------------------

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1349010 - Anion Extraction EPA 300.0</b>										
<b>Blank (1349010-BLK1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	ND	9.89	mg/kg							
<b>LCS (1349010-BS1)</b>				Prepared & Analyzed: 03-Dec-13						
Chloride	531	9.84	mg/kg	492		108	90-110			
<b>Matrix Spike (1349010-MS1)</b>				Source: P311076-01 Prepared & Analyzed: 03-Dec-13						
Chloride	1130	9.89	mg/kg	495	552	117	80-120			
<b>Matrix Spike Dup (1349010-MSD1)</b>				Source: P311076-01 Prepared & Analyzed: 03-Dec-13						
Chloride	1150	9.90	mg/kg	495	552	121	80-120	1.60	20	SPK1

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2-5 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
06-Dec-13 16:59

#### Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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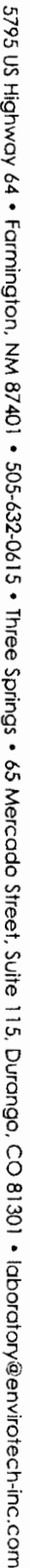
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## 16380

Page 10 of 10



# ENVIROTECH Inc.

5796 US HWY. 84, FARMINGTON, NM 87401  
(505) 832-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0006  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Envirotech Land farm  
SOURCE LOCATION: Landfarm 2-5  
SOURCE LOCATION: 60-3  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED 11-21-13  
DATE FINISHED: 11-21-13

ENVIRONMENTAL  
SPECIALIST: \_\_\_\_\_

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

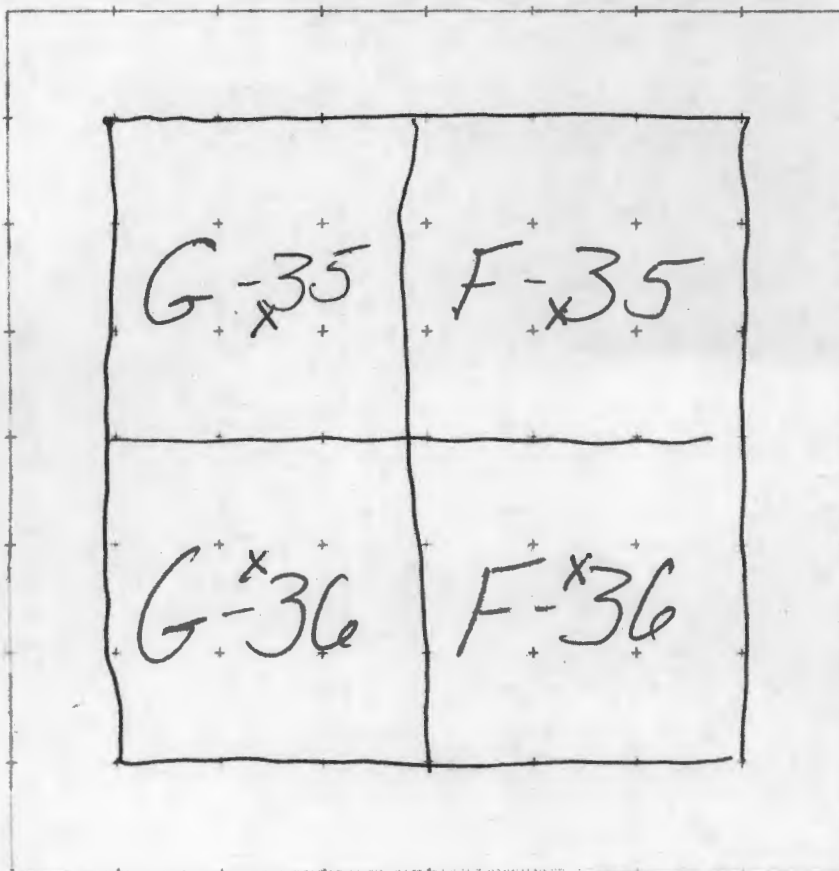
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: NTS



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



October 30, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM-1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated October 28, 2013 and received October 30, 2013, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 40, 41, and 51.**

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

**Brad A. Jones**  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



October 28, 2013

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

RECEIVED OCD

201 OCT 30 P 1:05

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELLS 40, 41, AND 51 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of a successive lift at Envirotech's Land Farm #2 for cell 40, 41, and 51 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cell (cell 40, 41, and 51) has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX, benzene, TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

Cell 40: 11722 cy (~18")      Cell 41: 11130 cy (~17")      Cell 51: 11208 cy (~17")

Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

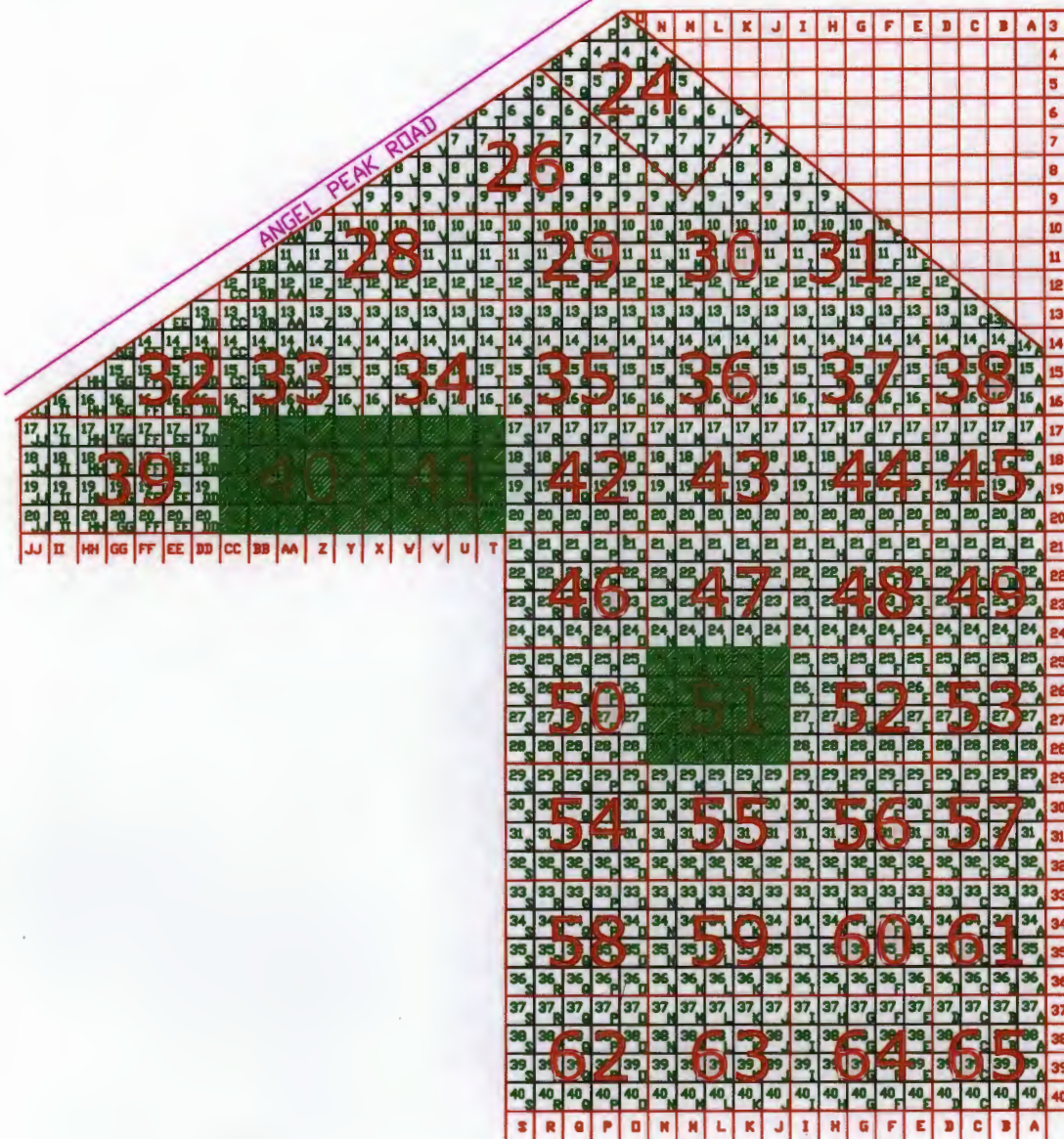
Respectfully submitted,  
Envirotech, Inc.

A handwritten signature in black ink, appearing to read 'Greg Crabtree', written over a horizontal line.

Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

A handwritten signature in black ink, appearing to read 'Kendra Runung', written over a horizontal line.

Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)



# LEGEND

ENVIROTECH  
NMOC D PERMITTED  
LANDFARM # 2  
UNIT 5

62 5 ACRE CELL

40 CELL REQUESTING LIFT

SCALE: 1"=100'

PROJECT NO.

FIGURE NO.

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
-----	------	----	-------------

MAP DRWN	JMK	12-7-09	BASE DRWN
----------	-----	---------	-----------



## envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615





## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 15914

Samples Received: 8/1/2013 4:05:00PM

Job Number: 03037-0006

Work Order: P308005

Project Name/Location: LF 2-5 2013 Semi-Ann.

Tmt Zone Monitoring 2nd Evt

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 8/7/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2nd Evt  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
07-Aug-13 08:38

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
26	P308005-01A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
28	P308005-02A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
29	P308005-03A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
30	P308005-04A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
32	P308005-05A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
38	P308005-06A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
39	P308005-07A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
40	P308005-08A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
41	P308005-09A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.
43	P308005-10A	Soil	08/01/13	08/01/13	Glass Jar, 4 oz.

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laboratory@envirotech-inc.com



Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2nd Evt Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 07-Aug-13 08:38
--	---	------------------------------

40

**P308005-08 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b><u>Volatile Organics by EPA 8021</u></b>									
Benzene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	80-120		1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.1 %	80-120		1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Surrogate: Fluorobenzene		93.2 %	80-120		1331031	02-Aug-13	05-Aug-13	EPA 8021B	
<b><u>Nonhalogenated Organics by 8015</u></b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1331030	02-Aug-13	05-Aug-13	EPA 8015D	
Diesel Range Organics (C10-C28)	59.8	4.99	mg/kg	1	1331030	02-Aug-13	05-Aug-13	EPA 8015D	
GRO and DRO Combined Fractions	59.8	4.99	mg/kg	1	1331030	02-Aug-13	05-Aug-13	EPA 8015D	
<b><u>Cation/Anion Analysis</u></b>									
Chloride	103	10.0	mg/kg	1	1331033	02-Aug-13	02-Aug-13	EPA 300.0	

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2nd Evt Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 07-Aug-13 08:38
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41

**P308005-09 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Surrogate: Bromochlorobenzene		120 %	80-120		1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114 %	80-120		1331031	02-Aug-13	05-Aug-13	EPA 8021B	
Surrogate: Fluorobenzene		114 %	80-120		1331031	02-Aug-13	05-Aug-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1331030	02-Aug-13	05-Aug-13	EPA 8015D	
Diesel Range Organics (C10-C28)	37.8	4.99	mg/kg	1	1331030	02-Aug-13	05-Aug-13	EPA 8015D	
GRO and DRO Combined Fractions	37.8	4.99	mg/kg	1	1331030	02-Aug-13	05-Aug-13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	326	10.0	mg/kg	1	1331033	02-Aug-13	02-Aug-13	EPA 300.0	

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Envirotech	Project Name:	LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2nd Evt	Reported: 07-Aug-13 08:38
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

**Volatile Organics by EPA 8021 - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 1331031 - Purge and Trap EPA 5030A**

**Blank (1331031-BLK1)**

Prepared & Analyzed: 02-Aug-13

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: Bromochlorobenzene	48.0		ug/L	50.0		96.0	80-120			
Surrogate: 1,4-Difluorobenzene	50.4		"	50.0		101	80-120			
Surrogate: Fluorobenzene	49.8		"	50.0		99.6	80-120			

**Duplicate (1331031-DUP1)**

Source: P308005-01

Prepared & Analyzed: 02-Aug-13

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: Bromochlorobenzene	42.8		ug/L	50.0		85.6	80-120			
Surrogate: 1,4-Difluorobenzene	44.4		"	50.0		88.9	80-120			
Surrogate: Fluorobenzene	44.5		"	50.0		88.9	80-120			

**Matrix Spike (1331031-MS1)**

Source: P308005-01

Prepared & Analyzed: 02-Aug-13

Benzene	48.0		ug/L	50.0	0.46	95.1	39-150			
Toluene	48.0		"	50.0	0.45	95.0	46-148			
Ethylbenzene	47.4		"	50.0	0.10	94.6	32-160			
p,m-Xylene	95.1		"	100	0.35	94.8	46-148			
o-Xylene	47.2		"	50.0	0.20	94.0	46-148			
Surrogate: Bromochlorobenzene	44.4		"	50.0		88.7	80-120			
Surrogate: 1,4-Difluorobenzene	46.8		"	50.0		93.7	80-120			
Surrogate: Fluorobenzene	47.2		"	50.0		94.5	80-120			

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Envirotech	Project Name:	LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2nd Evt	Reported: 07-Aug-13 08:38
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1331030 - GRO/DRO Extraction EPA 3550C

##### Blank (1331030-BLK1)

Prepared & Analyzed: 02-Aug-13

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg
Diesel Range Organics (C10-C28)	ND	4.99	"
GRO and DRO Combined Fractions	ND	4.99	"

##### Duplicate (1331030-DUP1)

Source: P308005-01

Prepared & Analyzed: 02-Aug-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	ND			30
Diesel Range Organics (C10-C28)	65.4	5.00	"	69.1		5.61	30

##### Matrix Spike (1331030-MS1)

Source: P308005-01

Prepared & Analyzed: 02-Aug-13

Gasoline Range Organics (C6-C10)	252	5.26	mg/kg	263	ND	95.9	75-125
Diesel Range Organics (C10-C28)	351	5.26	"	263	69.1	107	75-125

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Envirotech	Project Name:	LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2nd Evt	
5796 US HWY 64	Project Number:	03037-0006	<b>Reported:</b>
Farmington NM, 87401	Project Manager:	Kendra Runung	07-Aug-13 08:38

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1331033 - Anion Extraction EPA 300.0

##### Blank (1331033-BLK1)

Prepared & Analyzed: 02-Aug-13

Chloride ND 9.99 mg/kg

##### Duplicate (1331033-DUP1)

Source: P308007-01

Prepared & Analyzed: 02-Aug-13

Chloride 16.2 9.99 mg/kg 14.9 8.37 30

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2nd Evt  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
07-Aug-13 08:38

#### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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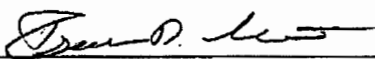
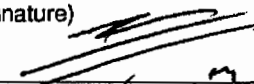
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# CHAIN OF CUSTODY RECORD

15914

Page 17 of 17

Client: <b>E-Tech</b>			Project Name / Location: <b>2013 Semi Annual Treatment Conc monitoring Event 2</b> <b>E-Tech Landfarm 2 Unit 5</b>			ANALYSIS / PARAMETERS													
Email results to: <b>Rene, Kendra</b>			Sampler Name: <b>Rene</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <b>03037-0006</b>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO <sub>3</sub>	HCl	CoCl												
26	8/1	12:40	P308005-01	1-4oz			X	X	X						X			X	X
28	8/1	12:50	P308005-02	1-4oz			X	X	X						X				
29	8/1	13:00	P308005-03	1-4oz			X	X	X						X				
30	8/1	13:05	P308005-04	1-4oz			X	X	X						X				
32	8/1	13:10	P308005-05	1-4oz			X	X	X						X				
38	8/1	13:14	P308005-06	1-4oz			X	X	X						X				
39	8/1	13:17	P308005-07	1-4oz			X	X	X						X				
40	8/1	13:25	P308005-08	1-4oz			X	X	X						X				
41	8/1	13:30	P308005-09	1-4oz			X	X	X						X				
43	8/1	13:37	P308005-10	1-4oz			X	X	X						X				
Relinquished by: (Signature) 				Date	Time	Received by: (Signature) 				Date	Time								
				8/1	4:05					8/1/13	16:05								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			



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# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Lanofarm 2 unit 5  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: Cell 40 - Closure sampling  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 8-1-13  
DATE FINISHED: \_\_\_\_\_

ENVIRONMENTAL SPECIALIST: Rene Garcia

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

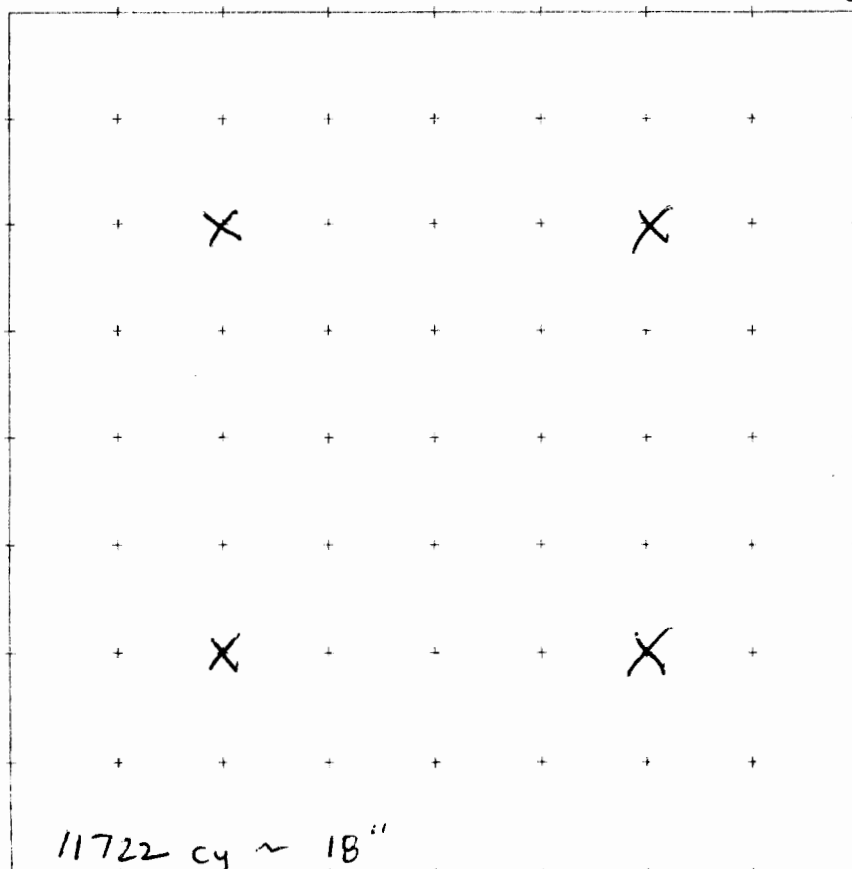
DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX. TPH PER NMOC:

NO. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

4 - Descrete Samples from Surface

## FACILITY DIAGRAM

GRID SCALE: 5 Acre Cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P.D. (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
40	8015	
40	8001	
40	300.1	

↑  
NORTH

WELLHEAD

SURFACE  
FLOW DIR

ESTIMATED  
GROUNDWATER  
FLOW DIR

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0815

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Landfarm 2 unit 5  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: Cell 40 - Closure Sampling  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 8-1-13  
DATE FINISHED: \_\_\_\_\_

ENVIRONMENTAL SPECIALIST: Rene Garcia

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

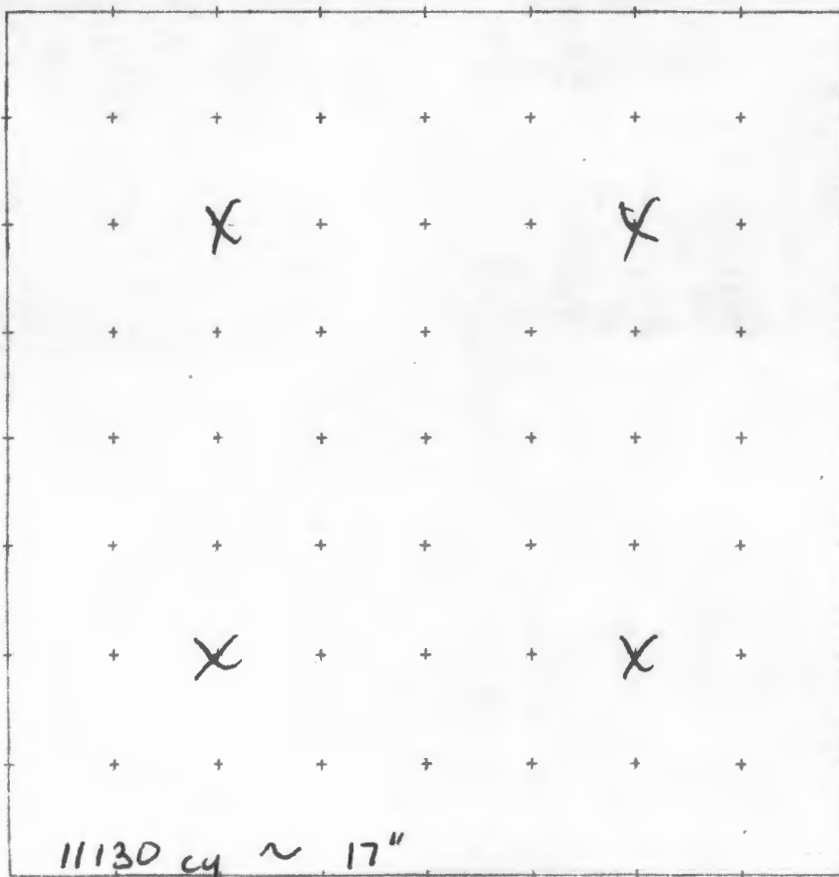
DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMDCD:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

4 - Discrete Samples from Surface

## FACILITY DIAGRAM

GRID SCALE:



## OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM



NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 16013

Samples Received: 10/15/2013 3:35:00PM

Job Number: 03037-0006

Work Order: P310061

Project Name/Location: 4th Quarter Landfarm  
Closure Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 10/22/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: 4th Quarter Landfarm Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
22-Oct-13 15:36

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 12	P310061-01A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.
Section 15	P310061-02A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.
Section 17	P310061-03A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.
Section 27	P310061-04A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.
Section 45	P310061-05A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.
Section 51	P310061-06A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.
Section 56	P310061-07A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.
Section 57	P310061-08A	Soil	10/15/13	10/15/13	Glass Jar, 4 oz.

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laboratory@envirotech-inc.com



Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: 4th Quarter Landfarm Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 22-Oct-13 15:36
--	---	------------------------------

**Section 51**  
**P310061-06 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		90.8 %			1342025	10/16/13	10/21/13	EPA 8021B	
Surrogate: Bromochlorobenzene		90.2 %			1342025	10/16/13	10/21/13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1342025	10/16/13	10/21/13	EPA 8015D	
Diesel Range Organics (C10-C28)	38.9	30.0	mg/kg	1	1342024	10/16/13	10/17/13	EPA 8015D	
GRO and DRO Combined Fractions	38.9	5.00	mg/kg		[CALC]	10/16/13	10/21/13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	ND	9.84	mg/kg	1	1342018	10/16/13	10/16/13	EPA 300.0	

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Envirotech	Project Name:	4th Quarter Landfarm Closure Sampling	Reported:
5796 US HWY 64	Project Number:	03037-0006	22-Oct-13 15:36
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1342025 - Purge and Trap EPA 5030A

##### Blank (1342025-BLK1)

Prepared: 16-Oct-13 Analyzed: 21-Oct-13

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	50.4		ug/L	50.0		101	80-120			
Surrogate: Bromochlorobenzene	51.4		"	50.0		103	80-120			

##### Duplicate (1342025-DUP1)

Source: P310061-01

Prepared: 16-Oct-13 Analyzed: 21-Oct-13

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	52.0		ug/L	50.0		104	80-120			
Surrogate: Bromochlorobenzene	53.5		"	50.0		107	80-120			

##### Matrix Spike (1342025-MS1)

Source: P310061-01

Prepared: 16-Oct-13 Analyzed: 21-Oct-13

Benzene	48.9		ug/L	50.0	0.15	97.5	39-150			
Toluene	53.4		"	50.0	0.73	105	46-148			
Ethylbenzene	51.8		"	50.0	0.09	103	32-160			
p,m-Xylene	103		"	100	0.42	102	46-148			
o-Xylene	51.9		"	50.0	0.20	103	46-148			
Surrogate: 1,3-Dichlorobenzene	55.0		"	50.0		110	80-120			
Surrogate: Bromochlorobenzene	53.7		"	50.0		107	80-120			

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Envirotech	Project Name:	4th Quarter Landfarm Closure Sampling	Reported:
5796 US HWY 64	Project Number:	03037-0006	22-Oct-13 15:36
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1342024 - DRO Extraction EPA 3550C

<b>Blank (1342024-BLK1)</b>				Prepared: 16-Oct-13 Analyzed: 17-Oct-13						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
<b>Duplicate (1342024-DUP1)</b>				Source: P310061-01 Prepared: 16-Oct-13 Analyzed: 17-Oct-13						
Diesel Range Organics (C10-C28)	176	30.0	mg/kg		105			50.3	30	D1
<b>Matrix Spike (1342024-MS1)</b>				Source: P310061-01 Prepared: 16-Oct-13 Analyzed: 17-Oct-13						
Diesel Range Organics (C10-C28)	353		mg/L	250	99.8	101	75-125			

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Envirotech	Project Name:	4th Quarter Landfarm Closure Sampling	Reported: 22-Oct-13 15:36
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1342025 - Purge and Trap EPA 5030A

##### Blank (1342025-BLK1)

Prepared: 16-Oct-13 Analyzed: 21-Oct-13

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

##### Duplicate (1342025-DUP1)

Source: P310061-01

Prepared: 16-Oct-13 Analyzed: 21-Oct-13

Gasoline Range Organics (C6-C10) ND 5.00 mg/kg ND 30

##### Matrix Spike (1342025-MS1)

Source: P310061-01

Prepared: 16-Oct-13 Analyzed: 21-Oct-13

Gasoline Range Organics (C6-C10) 0.58 mg/L 0.450 0.03 123 75-125

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Envirotech	Project Name:	4th Quarter Landfarm Closure Sampling	Reported: 22-Oct-13 15:36
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1342018 - Anion Extraction EPA 300.0</b>										
<b>Blank (1342018-BLK1)</b>				Prepared & Analyzed: 16-Oct-13						
Chloride	ND	9.97	mg/kg							
<b>LCS (1342018-BS1)</b>				Prepared & Analyzed: 16-Oct-13						
Chloride	532	9.92	mg/kg	496		107	90-110			
<b>Matrix Spike (1342018-MS1)</b>				Source: P310061-01 Prepared & Analyzed: 16-Oct-13						
Chloride	818	9.92	mg/kg	496	282	108	80-120			
<b>Matrix Spike Dup (1342018-MSD1)</b>				Source: P310061-01 Prepared & Analyzed: 16-Oct-13						
Chloride	810	9.95	mg/kg	498	282	106	80-120	0.950	20	

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: 4th Quarter Landfarm Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
22-Oct-13 15:36

#### Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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# CHAIN OF CUSTODY RECORD

16013

Page 16 of 16

Client: <b>Envirotech</b>			Project Name / Location: <b>Closure 4th Quarter Landfarm Sampling</b>			ANALYSIS / PARAMETERS													
Email results to: <b>K. Runung</b>			Sampler Name: <b>T. McIntosh</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <b>03037-0006</b>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO <sub>3</sub>	HCl	Cool												
Section 12	10/15/13	1314	P310061-01	1-4oz jar			X	X	X						X			Y	Y
Section 15		1250	P310061-02	1															
Section 17		1303	P310061-03	1															
Section 27		1330	P310061-04	1															
Section 45		1233	P310061-05	1															
Section 51		1222	P310061-06	1															
Section 56		1212	P310061-07	1															
Section 57		1157	P310061-08	1															
Relinquished by: (Signature) <b>Tiffany McIntosh</b>					Date	Time	Received by: (Signature) <b>[Signature]</b>					Date	Time						
					10/15/13	1535						10/15/13	1535						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			



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# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. \_\_\_\_\_  
PAGE No. \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Landfarm Unit #5

DATE STARTED: 10/15/13

SOURCE LOCATION: \_\_\_\_\_

DATE FINISHED: \_\_\_\_\_

SOURCE LOCATION: Cell 51

SOURCE LOCATION: Semi-Annual Treatment Zone Monitoring (Event #2)

ENVIRONMENTAL  
SPECIALIST: T. McIntosh

FACILITY CLASSIFICATION: \_\_\_\_\_

PIT TYPE: 0

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_

NEAREST WATER SOURCE/TYPE: \_\_\_\_\_

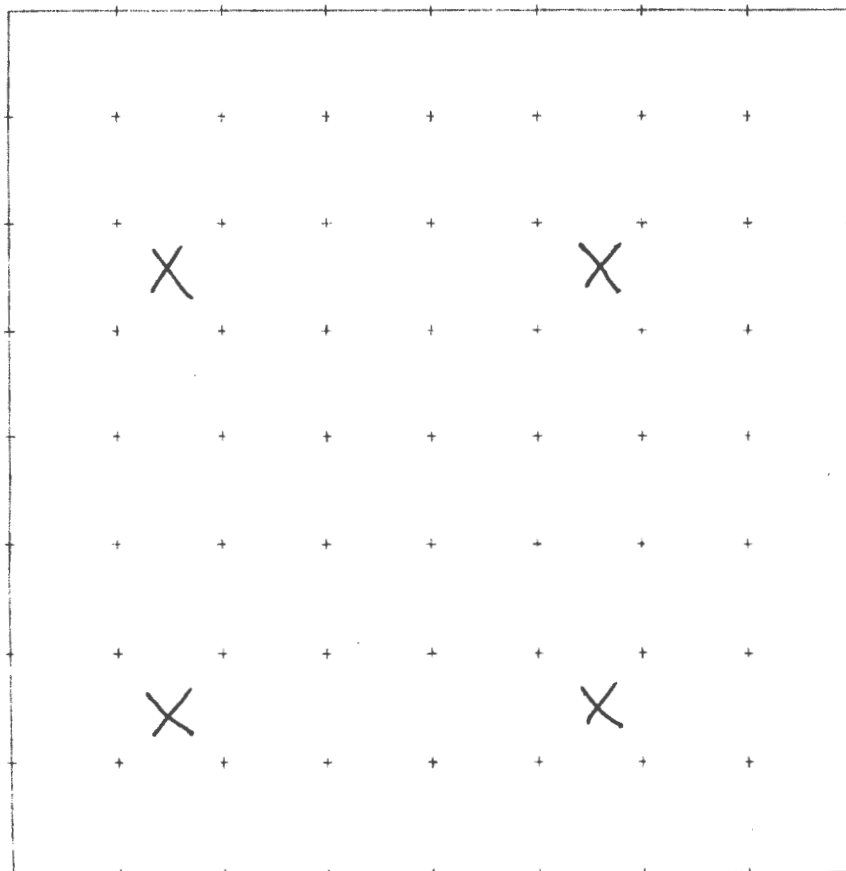
NEAREST SURFACE WATER: \_\_\_\_\_

MAX TPH PER NMCD: \_\_\_\_\_

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 acre cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P/D (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
51	8015	
51	8021	
51	Chlor	

NORTH

WELLHEAD

SURFACE  
FLOW DIR

ESTIMATED  
GROUNDWATER  
FLOW DIR.

11208 ~17"

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



July 3, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM-1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated July 1, 2013 and received July 3, 2013, to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 29**.

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

  
Brad A. Jones  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



July 1, 2013

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

RECEIVED OCD

2013 JUL -3 P 1:12

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELLS 29 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of a successive lift at Envirotech's Land Farm #2 for cell 29 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cell (cell 29) has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX, benzene, TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests this cell be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:


Cell 29: 7216 cy (~11")

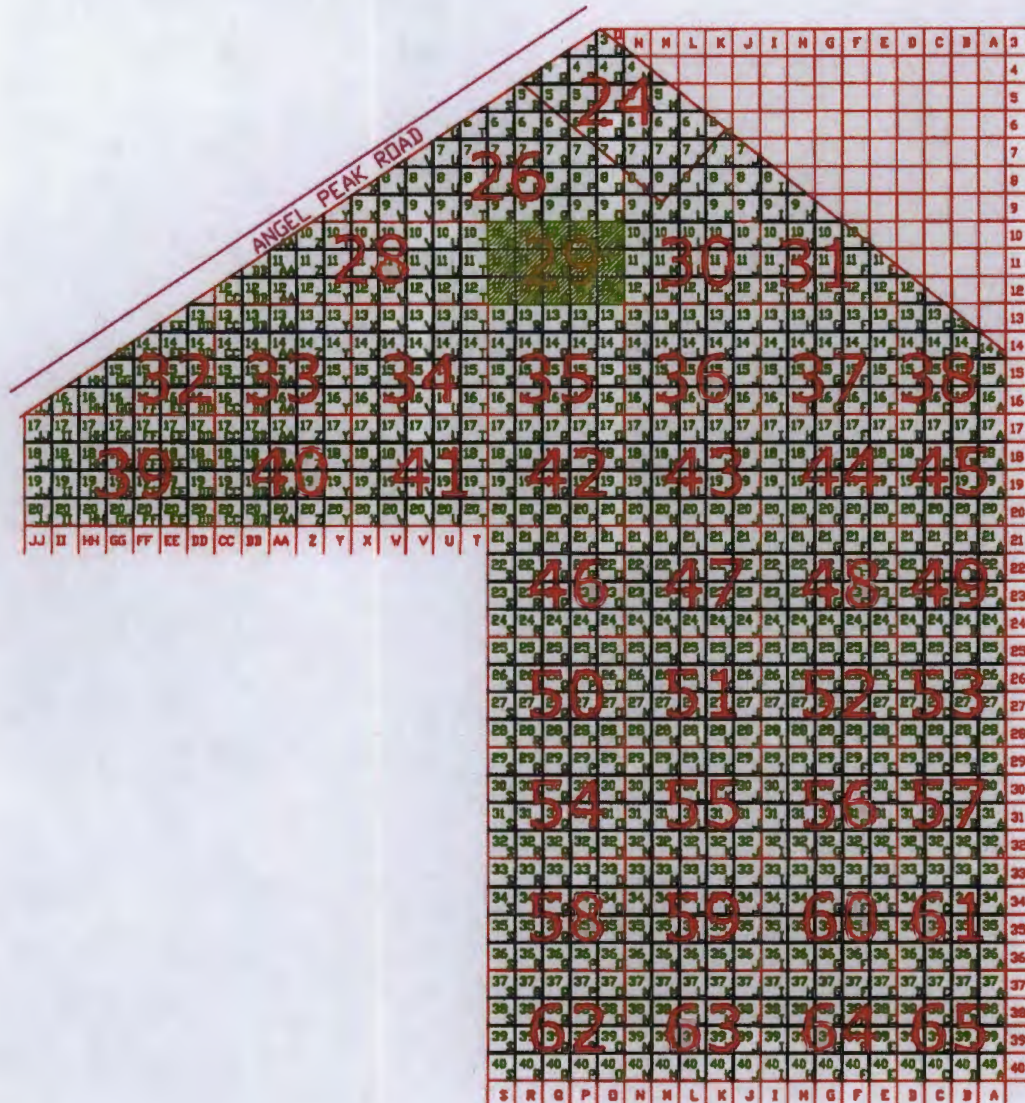
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

  
Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

  
Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)



# LEGEND

62 5 ACRE CELL

29 CELL REQUESTING LIFT

ENVIROTECH  
NMOC D PERMITTED  
LANDFARM # 2  
UNIT 5

SCALE: 1=100'

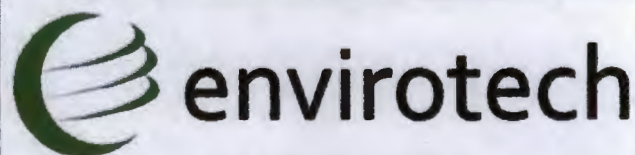
PROJECT NO.

FIGURE NO.

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	JMK	12-7-08	BASE DRWN



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 15773

Samples Received: 6/26/2013 7:50:00AM

Job Number: 03037-0006

Work Order: P306126

Project Name/Location: Closure

Sampling/Landfarm 2 Unit 5

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 7/1/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Closure Sampling/Landfarm 2 Unit 5  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
01-Jul-13 12:34

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell #29	P306126-01A	Soil	06/24/13	06/26/13	Glass Jar, 4 oz.

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Envirotech	Project Name:	Closure Sampling/Landfarm 2 Unit 5	Reported:
5796 US HWY 64	Project Number:	03037-0006	01-Jul-13 12:34
Farmington NM, 87401	Project Manager:	Kendra Runung	

**Cell #29**  
**P306126-01 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1326024	26-Jun-13	27-Jun-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1326024	26-Jun-13	27-Jun-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1326024	26-Jun-13	27-Jun-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1326024	26-Jun-13	27-Jun-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1326024	26-Jun-13	27-Jun-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1326024	26-Jun-13	27-Jun-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1326024	26-Jun-13	27-Jun-13	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %	80-120		1326024	26-Jun-13	27-Jun-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	80-120		1326024	26-Jun-13	27-Jun-13	EPA 8021B	
Surrogate: Fluorobenzene		103 %	80-120		1326024	26-Jun-13	27-Jun-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1326022	26-Jun-13	27-Jun-13	EPA 8015D	
Diesel Range Organics (C10-C28)	84.8	4.99	mg/kg	1	1326022	26-Jun-13	27-Jun-13	EPA 8015D	
GRO and DRO Combined Fractions	84.8	4.99	mg/kg	1	1326022	26-Jun-13	27-Jun-13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	182	10.0	mg/kg	1	1326023	26-Jun-13	26-Jun-13	EPA 300.0	

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laboratory@envirotech-inc.com





Envirotech	Project Name:	Closure Sampling/Landfarm 2 Unit 5	Reported: 01-Jul-13 12:34
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1326024 - Purge and Trap EPA 5030A

##### Blank (1326024-BLK1)

Prepared: 26-Jun-13 Analyzed: 27-Jun-13

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: Bromochlorobenzene	0.0507		"	0.0499		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.0505		"	0.0499		101	80-120			
Surrogate: Fluorobenzene	0.0501		"	0.0499		100	80-120			

##### Duplicate (1326024-DUP1)

Source: P306126-01

Prepared: 26-Jun-13 Analyzed: 27-Jun-13

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: Bromochlorobenzene	0.0524		"	0.0499		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.0516		"	0.0499		103	80-120			
Surrogate: Fluorobenzene	0.0511		"	0.0499		102	80-120			

##### Matrix Spike (1326024-MS1)

Source: P306126-01

Prepared: 26-Jun-13 Analyzed: 27-Jun-13

Benzene	0.05	0.001	mg/kg	0.0499	ND	103	39-150			
Toluene	0.05	0.001	"	0.0499	ND	104	46-148			
Ethylbenzene	0.05	0.001	"	0.0499	ND	103	32-160			
p,m-Xylene	0.10	0.001	"	0.0999	ND	103	46-148			
o-Xylene	0.05	0.001	"	0.0499	ND	103	46-148			
Surrogate: Bromochlorobenzene	0.0516		"	0.0499		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.0496		"	0.0499		99.3	80-120			
Surrogate: Fluorobenzene	0.0493		"	0.0499		98.8	80-120			

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5796 US Highway 64, Farmington, NM 87401

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envirotech-inc.com  
laboratory@envirotech-inc.com





Envirotech	Project Name:	Closure Sampling/Landfarm 2 Unit 5	Reported:
5796 US HWY 64	Project Number:	03037-0006	01-Jul-13 12:34
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1326022 - GRO/DRO Extraction EPA 3550C

##### Blank (1326022-BLK1)

Prepared & Analyzed: 26-Jun-13

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg
Diesel Range Organics (C10-C28)	ND	4.99	"
GRO and DRO Combined Fractions	ND	4.99	"

##### Duplicate (1326022-DUP1)

Source: P306123-01

Prepared & Analyzed: 26-Jun-13

Gasoline Range Organics (C6-C10)	11.1	5.00	mg/kg	10.4	6.53	30	
Diesel Range Organics (C10-C28)	335	5.00	"	231	36.5	30	D1

##### Matrix Spike (1326022-MS1)

Source: P306123-01

Prepared & Analyzed: 26-Jun-13

Gasoline Range Organics (C6-C10)	319	mg/L	250	9.94	123	75-125
Diesel Range Organics (C10-C28)	520	"	250	220	120	75-125

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Closure Sampling/Landfarm 2 Unit 5  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
01-Jul-13 12:34

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch 1326023 - Anion Extraction EPA 300.0

##### Blank (1326023-BLK1)

Prepared & Analyzed: 26-Jun-13

Chloride ND 9.99 mg/kg

##### Duplicate (1326023-DUP1)

Source: P306119-01

Prepared & Analyzed: 26-Jun-13

Chloride 19.6 10.0 mg/kg 19.5 0.295 30

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laboratory@envirotech-inc.com



Envirotech	Project Name:	Closure Sampling/Landfarm 2 Unit 5	
5796 US HWY 64	Project Number:	03037-0006	<b>Reported:</b>
Farmington NM, 87401	Project Manager:	Kendra Runung	01-Jul-13 12:34

#### Notes and Definitions


D1	Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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# CHAIN OF CUSTODY RECORD

15773

Page 8 of 8

Client: <b>Envirotech</b>			Project Name / Location: <b>Closure sampling / Landfarm 2 unit 5</b>			ANALYSIS / PARAMETERS														
Email results to: <b>Kendra Running</b>			Sampler Name: <b>K. Peine</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
Client Phone No.:			Client No.: <b>03037-0006</b>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO <sub>3</sub>	HCl														
Cell #29	6-24-13	15:30	P306126-01	1462 Jars			X	X	X							X			X	X
Relinquished by: (Signature) <i>Thony Peine</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time									
Relinquished by: (Signature)				6-26-13	7:50	Received by: (Signature)				6/26/13	7:50									
Sample Matrix																				
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																				
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																				

COC 15773

## ENVIROTECH Inc.

5798 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_FIELD REPORT: REMEDIATION FACILITY  
CLOSURE VERIFICATIONJOB No. \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_FACILITY LOCATION: Landfarm 2 unit 5

SOURCE LOCATION: \_\_\_\_\_

SOURCE LOCATION: Cell 29 Closure

SOURCE LOCATION: \_\_\_\_\_

FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

DATE STARTED: 6-24-13  
DATE FINISHED: \_\_\_\_\_ENVIRONMENTAL  
SPECIALIST: K. Peire

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES &amp; REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:

NEAREST WATER SOURCE/TYPE:

NEAREST SURFACE WATER:

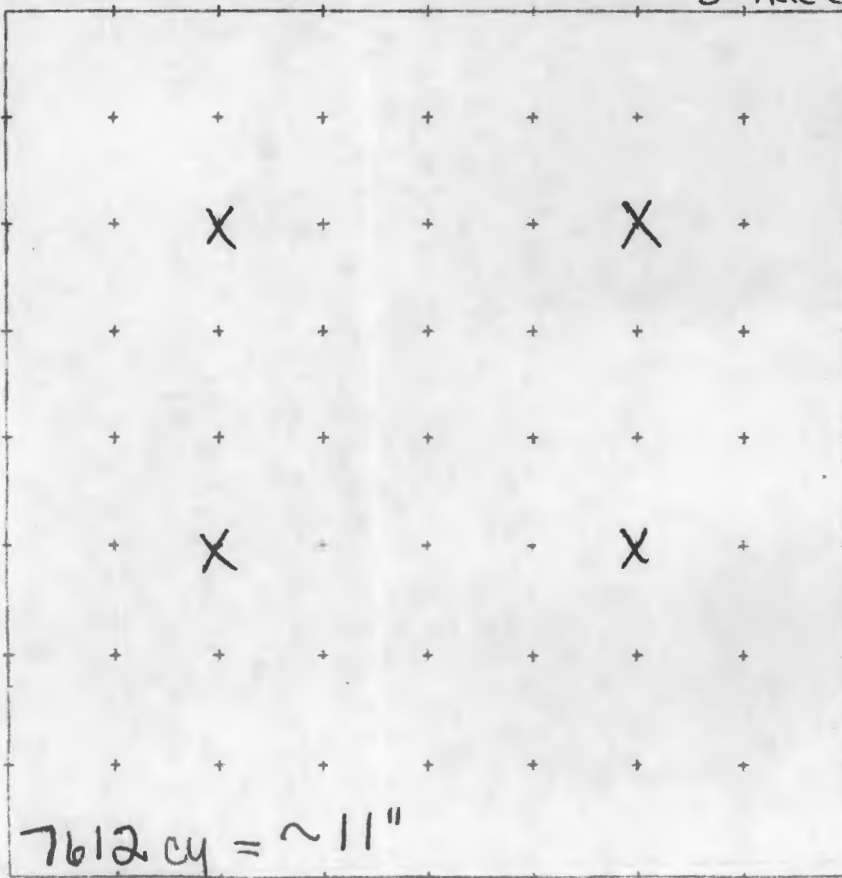
MAX TPH PER NMOC:

No. OF 5-POINT COMPOSITE SAMPLES: YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

4- Discreet Samples From Surface

## FACILITY DIAGRAM

GRID SCALE: 5-Acre Cell



7612 cy = ~11"

OVM  
RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

LAB  
RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
29	8015	
29	8021	
29	300	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.ESTIMATED  
GROUNDWATER  
FLOW DIR.

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



June 26, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM-1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Ms. Runung:

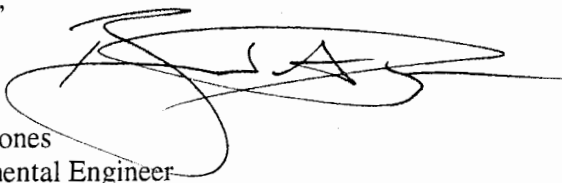
The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, received June 25, 2013, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 4, 15, and 18.**

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

  
Brad A. Jones  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



June 25, 2013

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

RECEIVED OCD

2013 JUN 26 A 10:57

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELLS 4, 15, AND 18 IN LANDFARM #2

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of successive lifts at Envirotech's Land Farm #2 for cells 4, 15, and 18 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cells (cells 4, 15, and 18) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX, benzene, TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

Cell 4: 12809 cy (~19") Cell 15: 5692 cy (~8") Cell 18: 8480 cy (~13")

Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

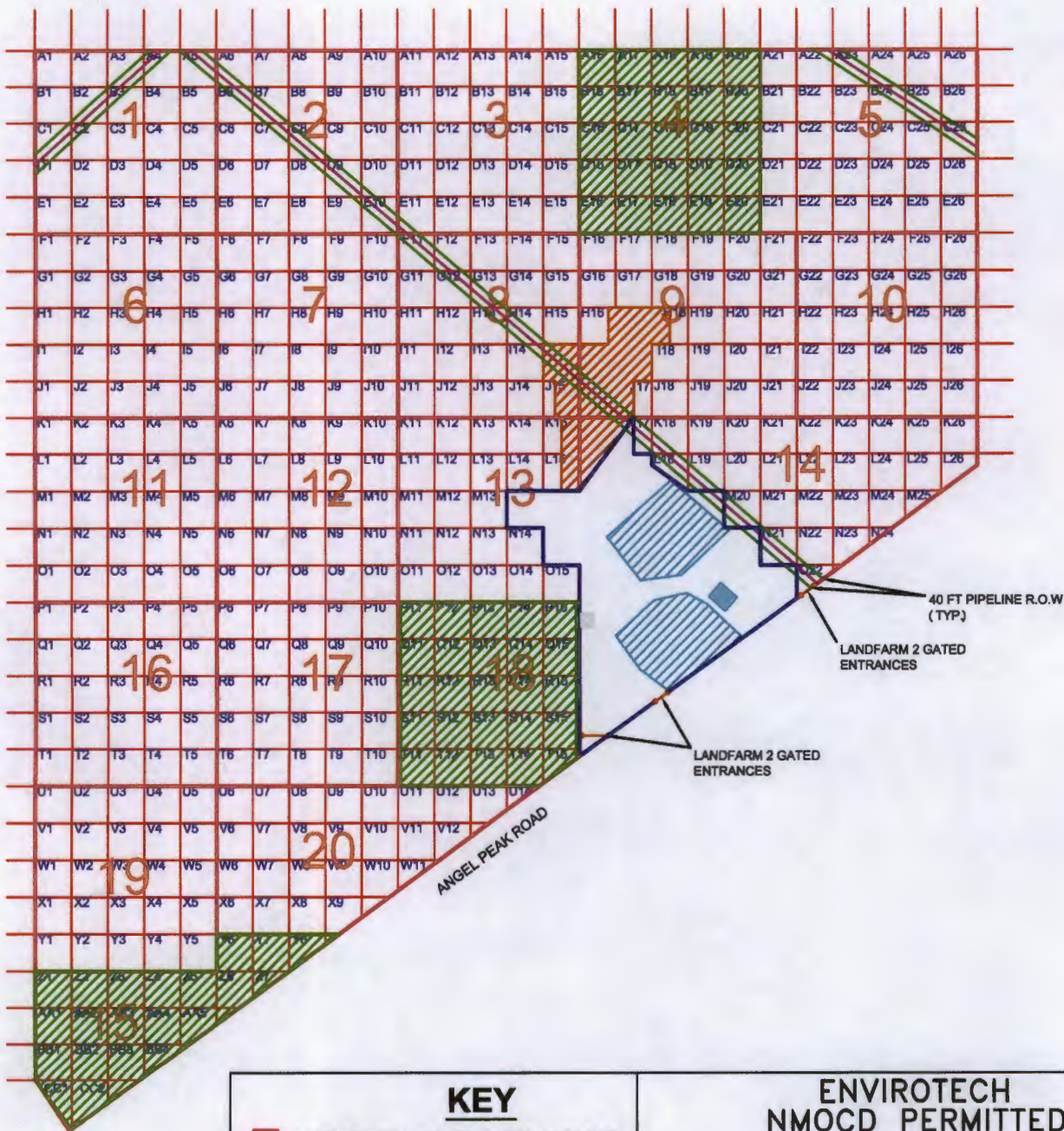
Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

  
\_\_\_\_\_  
Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

  
\_\_\_\_\_  
Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)





### KEY

- 1 5 ACRE CELL LABELS AND OUTLINE
- A1 CELL LABELS
- UNFARMABLE AREA OUTLINE
- BLENDING FACILITY
- BLENDING STOCKPILES
- WELLSITES
- PIPELINES
- 40 FOOT PIPELINE R.O.W.
- GATES
- FIELD OFFICE
- CELL REQUESTING LIFT

## ENVIROTECH NMOCD PERMITTED LANDFARM # 2 5 ACRE CELLS

SCALE: NTS

PROJECT NO.

FIGURE NO.

REV

### REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	JKA	1/11/13	BASE DRWN



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615





## Report Summary

Client: Envirotech

Chain of Custody Number: 15045

Samples Received: 01-04-13

Job Number: 03037-0006

Sample Number(s): 64044-64053

Project Name/Location: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1<sup>st</sup> Event)

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be 'J. B.', is written over a horizontal line.

Date:

1/23/13

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



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

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 4	Date Reported:	01-09-13
Laboratory Number:	64048	Date Sampled:	01-03-13
Chain of Custody No:	15045	Date Received:	01-04-13
Sample Matrix:	Soil	Date Extracted:	01-07-13
Preservative:	Cool	Date Analyzed:	01-08-13
Condition:	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)	29.0	0.1
Total Petroleum Hydrocarbons	30.3	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**



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

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	0108TCAL QA/QC	Date Reported:	01-09-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-13
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	01-08-13	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	01-08-13	9.9960E+02	1.0000E+03	0.04%	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	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	3.0	4.0	33%	0 - 30%*
Diesel Range C10 - C28	118	124	4.9%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	3.0	250	232	91.6%	75 - 125%
Diesel Range C10 - C28	118	250	324	87.8%	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.

\*Note Percent difference outside acceptable limits

Comments: QA/QC for Samples 64044-64058.



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 4	Date Reported:	01-11-13
Laboratory Number:	64048	Date Sampled:	01-03-13
Chain of Custody:	15045	Date Received:	01-04-13
Sample Matrix:	Soil	Date Analyzed:	01-10-13
Preservative:	Cool	Date Extracted:	01-07-13
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	11.7	10.0
o-Xylene	ND	10.0
Total BTEX	11.7	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	115 %
	1,4-difluorobenzene	111 %
	Bromochlorobenzene	88.1 %

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

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

**Comments: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0110BCAL QA/QC	Date Reported:	01-11-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-10-13
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
	Accept. Range 0-15%				
Benzene	9.4088E-06	9.4088E-06	0.000	ND	0.2
Toluene	9.4563E-06	9.4563E-06	0.000	ND	0.2
Ethylbenzene	1.2394E-05	1.2394E-05	0.000	ND	0.2
p,m-Xylene	1.0525E-05	1.0525E-05	0.000	ND	0.2
o-Xylene	1.2985E-05	1.2985E-05	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	49.4	45.2	0.09	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	41.4	37.8	0.09	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2120	84.8	39 - 150
Toluene	49.4	2500	2280	89.4	46 - 148
Ethylbenzene	ND	2500	2110	84.4	32 - 160
p,m-Xylene	41.4	5000	3660	72.6	46 - 148
o-Xylene	ND	2500	1880	75.2	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 Photolionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

**Comments: QA/QC for Samples 64044-64058.**



## Chloride

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 4	Date Reported:	01-16-13
Lab ID#:	64048	Date Sampled:	01-03-13
Sample Matrix:	Soil	Date Received:	01-10-13
Preservative:	Cool	Date Analyzed:	01-15-13
Condition:	Intact	Chain of Custody:	15045

Parameter	Concentration (mg/Kg)
-----------	-----------------------

**Total Chloride**

**200**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1st Event)**

# CHAIN OF CUSTODY RECORD

15045

Client: <b>Envirotech</b>			Project Name / Location: <b>Landfarm 2</b> <b>2013 San Juan Treatment Zone Monitoring</b> <b>1st Event</b>			ANALYSIS / PARAMETERS														
Email results to: <b>Kendra Running</b>			Sampler Name: <b>K. Peire</b>			<div style="text-align: right;">1/16/13</div>														
Client Phone No.:			Client No.: <b>03037-0006</b>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals + Zn	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE		Sample Cool	Sample Intact
					HgCl <sub>2</sub>	HCl	Co													
Cell 15	1-3-13	14:12	G4044 P301010-01A	14oz Jar			X	X	X								X		X	X
Cell 10	1-3-13	14:18	G4045 P301010-02A	14oz Jar			X	X	X		X					X				
Cell 14	1-3-13	14:27	G4046 P301010-03A	14oz Jar			X	X	X											
Cell 9	1-3-13	14:36	G4047 P301010-04A	14oz Jar			X	X	X		X					X				
Cell 4	1-3-13	14:45	G4048 P301010-05A	14oz Jar			X	X	X		X					X				
Cell 6	1-3-13	14:57	G4049 P301010-06A	14oz Jar			X	X	X		X					X				
Cell 16	1-3-13	15:10	G4050 P301010-07A	14oz Jar			X	X	X		X					X				
Cell 19	1-3-13	15:18	G4051 P301010-08A	14oz Jar			X	X	X		X					X				
Cell 20	1-3-13	15:25	G4052 P301010-09A	14oz Jar			X	X	X											
Cell 17	1-3-13	15:33	G4053 P301010-10A	14oz Jar			X	X	X		X					X				
Relinquished by: (Signature) <i>K. Peire</i>					Date	Time	Received by: (Signature) <i>Miriam Jee</i>										Date	Time		
					1-3-13	17:00											1/4/13	7:40		
Relinquished by: (Signature)							Received by: (Signature)													
Sample Matrix																				
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																				
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																				



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## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 15740

Samples Received: 6/21/2013 5:25:00PM

Job Number: 03037-0006

Work Order: P306109

Project Name/Location: Landfarm 2 Closure  
Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 6/24/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.





Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
24-Jun-13 12:21

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
15	P306109-02A	Solid	06/21/13	06/21/13	Glass Jar, 4 oz.
18	P306109-03A	Solid	06/21/13	06/21/13	Glass Jar, 4 oz.

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
24-Jun-13 12:21

15

**P306109-02 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatiles Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Surrogate: Bromochlorobenzene		96.3 %	80-120		1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.5 %	80-120		1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Surrogate: Fluorobenzene		103 %	80-120		1326001	24-Jun-13	24-Jun-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1326002	24-Jun-13	24-Jun-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	5.00	mg/kg	1	1326002	24-Jun-13	24-Jun-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg	1	1326002	24-Jun-13	24-Jun-13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	194	9.99	mg/kg	1	1326003	24-Jun-13	24-Jun-13	EPA 300.0	

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 24-Jun-13 12:21
--	---	------------------------------

**18**  
**P306109-03 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Surrogate: Bromochlorobenzene		101 %	80-120		1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.5 %	80-120		1326001	24-Jun-13	24-Jun-13	EPA 8021B	
Surrogate: Fluorobenzene		98.6 %	80-120		1326001	24-Jun-13	24-Jun-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1326002	24-Jun-13	24-Jun-13	EPA 8015D	
Diesel Range Organics (C10-C28)	28.1	5.00	mg/kg	1	1326002	24-Jun-13	24-Jun-13	EPA 8015D	
GRO and DRO Combined Fractions	28.1	5.00	mg/kg	1	1326002	24-Jun-13	24-Jun-13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	136	9.99	mg/kg	1	1326003	24-Jun-13	24-Jun-13	EPA 300.0	

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: Landfarm 2 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 24-Jun-13 12:21
--	---	------------------------------

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1326001 - Purge and Trap EPA 5030A

<b>Blank (1326001-BLK1)</b>			Prepared & Analyzed: 24-Jun-13							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	0.08	0.05	"							B-05, B1
o-Xylene	ND	0.05	"							
Surrogate: Bromochlorobenzene	49.7		ug/L	50.0		99.4	80-120			
Surrogate: 1,4-Difluorobenzene	48.0		"	50.0		96.0	80-120			
Surrogate: Fluorobenzene	48.5		"	50.0		97.0	80-120			

<b>Duplicate (1326001-DUP1)</b>			Source: P306109-01	Prepared & Analyzed: 24-Jun-13						
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: Bromochlorobenzene	46.0		ug/L	50.0		92.0	80-120			
Surrogate: 1,4-Difluorobenzene	50.7		"	50.0		101	80-120			
Surrogate: Fluorobenzene	52.6		"	50.0		105	80-120			

<b>Matrix Spike (1326001-MS1)</b>			Source: P306109-01	Prepared & Analyzed: 24-Jun-13						
Benzene	52.8		ug/L	50.0	0.26	105	39-150			
Toluene	51.6		"	50.0	0.49	102	46-148			
Ethylbenzene	50.7		"	50.0	0.10	101	32-160			
p,m-Xylene	103		"	100	0.55	102	46-148			
o-Xylene	51.1		"	50.0	0.38	101	46-148			
Surrogate: Bromochlorobenzene	46.9		"	50.0		93.9	80-120			
Surrogate: 1,4-Difluorobenzene	51.5		"	50.0		103	80-120			
Surrogate: Fluorobenzene	53.4		"	50.0		107	80-120			

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Envirotech	Project Name:	Landfarm 2 Closure Sampling	Reported: 24-Jun-13 12:21
5796 US HWY 64	Project Number:	03037-0006	
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch 1326002 - GRO/DRO Extraction EPA 3550C

##### Blank (1326002-BLK1)

Prepared & Analyzed: 24-Jun-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg
Diesel Range Organics (C10-C28)	ND	5.00	"
GRO and DRO Combined Fractions	ND	5.00	"

##### Duplicate (1326002-DUP1)

Source: P306109-01

Prepared & Analyzed: 24-Jun-13

Gasoline Range Organics (C6-C10)	9.00	5.00	mg/kg	5.92	41.2	30	D1
Diesel Range Organics (C10-C28)	1840	5.00	"	1610	13.6	30	

##### Matrix Spike (1326002-MS1)

Source: P306109-01

Prepared & Analyzed: 24-Jun-13

Gasoline Range Organics (C6-C10)	267	mg/L	250	5.63	105	75-125
Diesel Range Organics (C10-C28)	1830	"	250	1530	120	75-125

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
24-Jun-13 12:21

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1326003 - Anion Extraction EPA 300.0

##### Blank (1326003-BLK1)

Prepared & Analyzed: 24-Jun-13

Chloride ND 9.99 mg/kg

##### Duplicate (1326003-DUP1)

Source: P306109-01

Prepared & Analyzed: 24-Jun-13

Chloride 68.0 9.99 mg/kg 69.5 2.17 30

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laboratory@envirotech-inc.com



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: Landfarm 2 Closure Sampling  
Project Number: 03037-0006  
Project Manager: Kendra Runung

**Reported:**  
24-Jun-13 12:21

#### Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

B1 Analyte is found in the associated blank but not in the sample.

B-05 Contamination in blank is carryover from previous sample analyzed in same purge vessel. This contamination is not present in purge vessels that associated samples were purged in.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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# CHAIN OF CUSTODY RECORD

15740

Page 9 of 9

Client: <i>Envirotech, Inc.</i>		Project Name / Location: <i>Land Farm 2 / Closures</i>		ANALYSIS / PARAMETERS																	
Email results to:		Sampler Name: <i>Rene Garcia Reyes</i>																			
Client Phone No.:		Client No.: <i>03037-0006</i>																			
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HNO <sub>3</sub>	HCl	(a)														
<del>concrete pit rendered 6/24/13</del>	<del>6/2/13</del>	<del>16:15</del>	<del>P306109-01</del>	<del>402</del>			<del>X</del>	<del>X</del>	<del>X</del>								<del>X</del>			<del>Y</del>	<del>Y</del>
		16:25	P306109-02				X	X	X								X				
		16:35	P306109-03				X	X	X								X				
Relinquished by: (Signature) <i>RGR</i>				Date 6/21	Time 17:20	Received by: (Signature) <i>Rene Garcia Reyes</i>				Date 6/21/13	Time 17:25										
Relinquished by: (Signature)						Received by: (Signature)															
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input checked="" type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					

*RUSH*





# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0006  
PAGE No: 1 of 3

FACILITY LOCATION: Land Farm 2  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: Cell 4 Closure Sampling  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 6/21/13  
DATE FINISHED: 6/21/13

ENVIRONMENTAL  
SPECIALIST: Rene

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

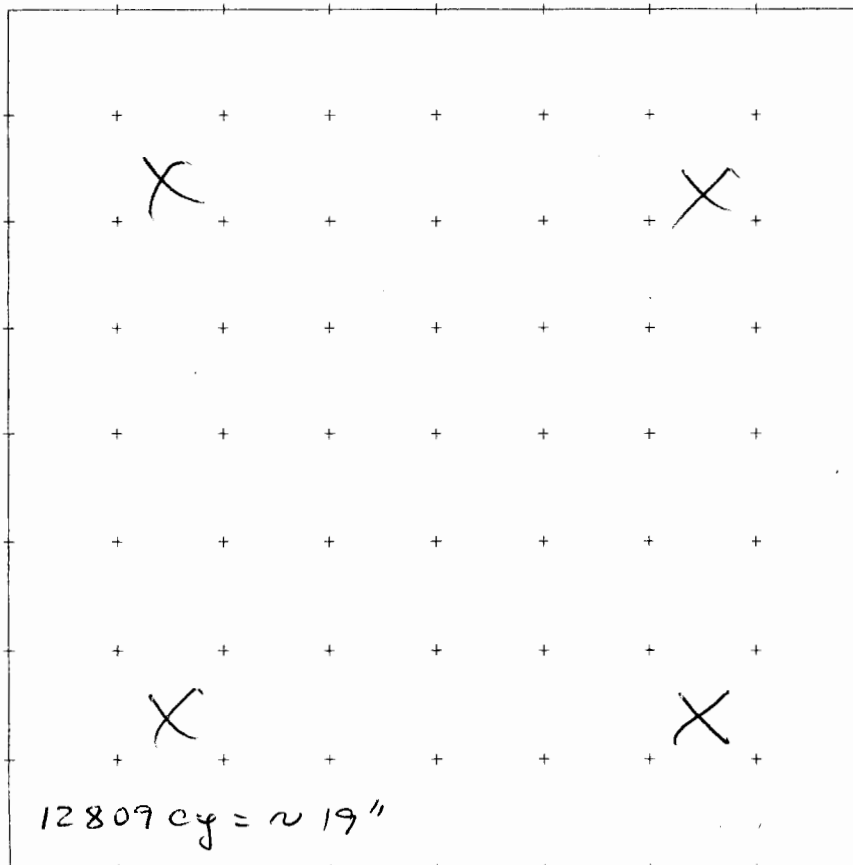
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 acre @ cell



## OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037  
PAGE No: 2 of 3

FACILITY LOCATION: Land Farm 2

SOURCE LOCATION: \_\_\_\_\_

SOURCE LOCATION: \_\_\_\_\_

SOURCE LOCATION: Cell 15 Closure Sampling

FACILITY CLASSIFICATION: \_\_\_\_\_

PIT TYPE: \_\_\_\_\_

DATE STARTED: 6/21/13

DATE FINISHED: 6/21/13

ENVIRONMENTAL  
SPECIALIST: Bone

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_

NEAREST WATER SOURCE/TYPE: \_\_\_\_\_

NEAREST SURFACE WATER: \_\_\_\_\_

MAX TPH PER NMCD: \_\_\_\_\_

No. OF 5-POINT  
COMPOSITE SAMPLES:

YARDAGE--#

0-200=1

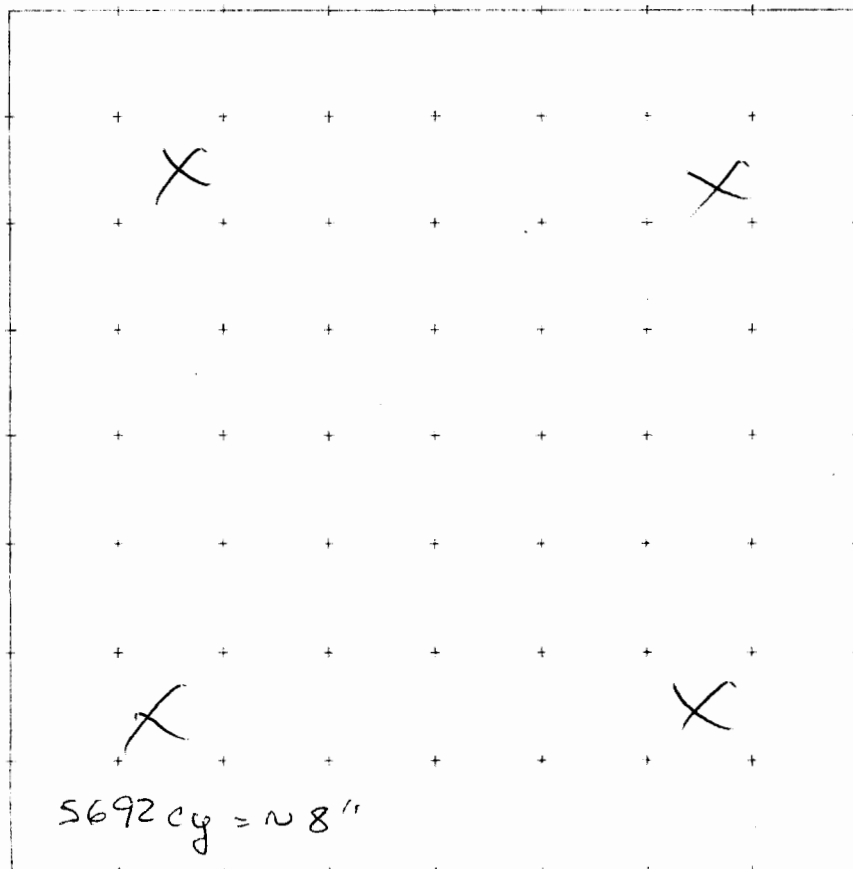
201-400=2

401-1000=3

>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 acre cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE FID (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0006  
PAGE No: 3 of 3

FACILITY LOCATION: land farm?  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: cell 18 closure sampling  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 6/21/13  
DATE FINISHED: 6/21/13

ENVIRONMENTAL  
SPECIALIST: Rene

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

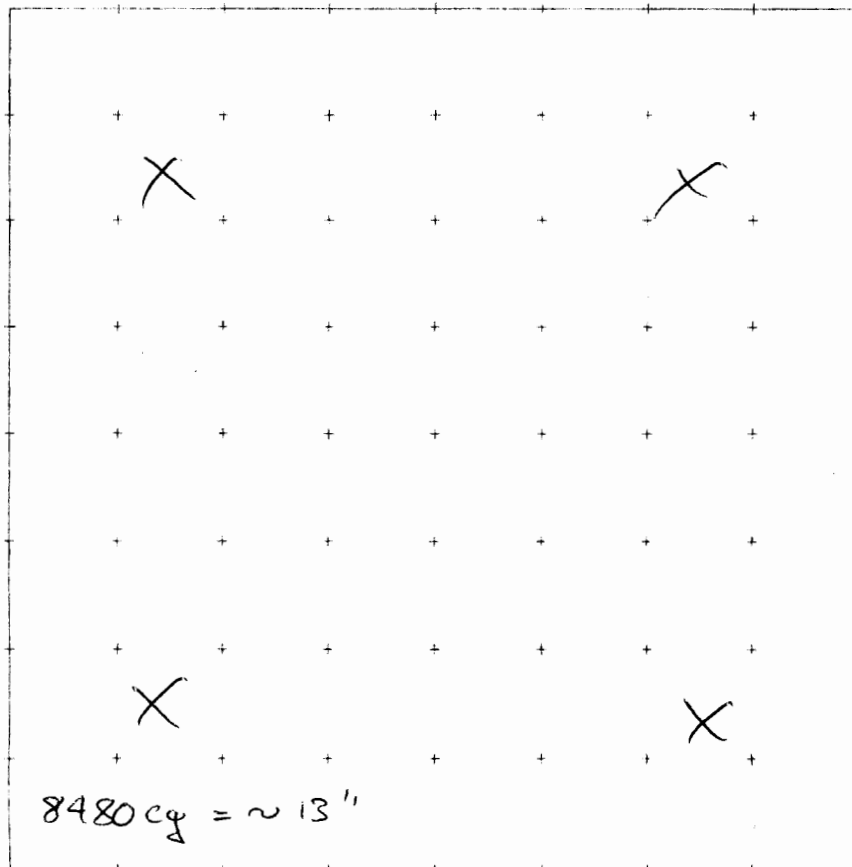
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 acre cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P/D (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM

NORTH

WELLHEAD

SURFACE  
FLOW DIR

ESTIMATED  
GROUNDWATER  
FLOW DIR

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



May 22, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Clearance Completion Notification/Demonstration for Cell 5  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico**

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) demonstration and request, dated May 21, 2013 to demonstrate that after the removal of all remediated soils from Cell 5 for the stabilization and/or solidification of incoming drilling mud, tank bottoms, and sludge the landfarm operations did not contaminate the vadose zone and to grant approval to apply a six-inch lift of petroleum hydrocarbon-contaminated soils for remediation to the following cell(s): Cell 5.

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Please note that by applying a six-inch lift of petroleum hydrocarbon-contaminated soils for remediation to Cell 5 Envirotech must re-initiate treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

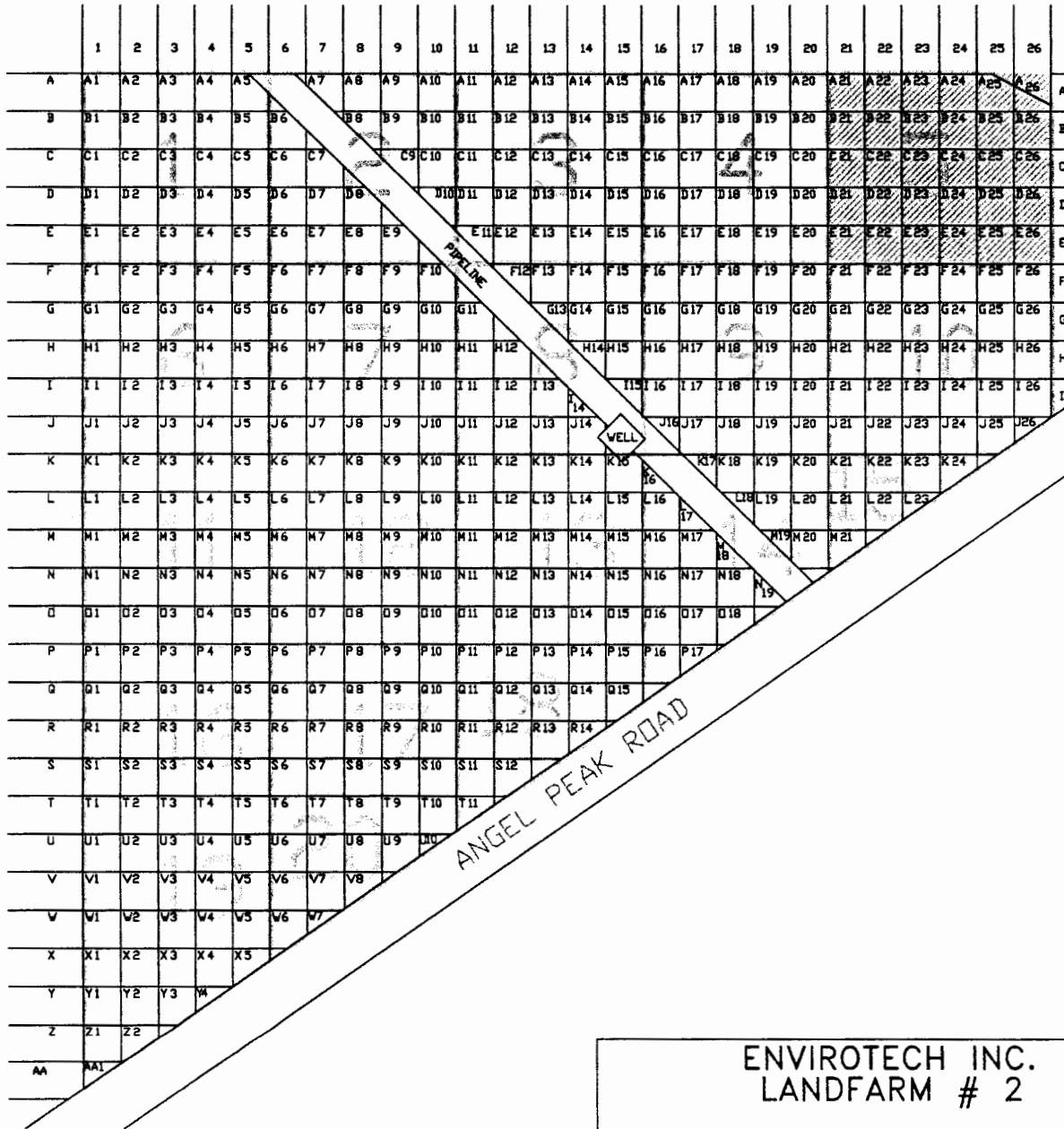
Sincerely,

Brad A. Jones  
Environmental Engineer

BAJ/baj

Attachment: Facility Map (Date: May 21, 2013)

cc: OCD District III Office, Aztec



KEY

5

CELL REQUESTING LIFT

# ENVIROTECH INC. LANDFARM # 2

SCALE: NTS		FIGURE NO.		REV	
PROJECT NO.					
REVISIONS					
NO.	DATE	BY	DESCRIPTION		
MAP DRWN	FRA	5-21-13	BASE DRWN		



## envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



May 21, 2013

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

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELL 5 IN LANDFARM #2

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of an initial lift for Envirotech's Land Farm #2, Cell 5, located at #43 Road 7175, South of Bloomfield, New Mexico. On December 8, 2010, the NMOCD approved the removal of approximately 15,000 cubic yards of remediated soil from Cell 5; to be stockpiled in a designated bermed area; and utilized for stabilization and/or solidification of incoming drilling mud, tank bottoms, and sludge. After removal of the remediated soil, the area was sampled again to prove that native soil had been reached and that all remediated soil had been removed from the cell. Attached you will find a map marked by a green crosshatch design, designating Cell 5. Additionally, you will also find the analysis showing native soil has been reached, a copy of the NMOCD approval to remove the remediated soil, as well as a copy of the initial background analysis from sampling of Landfarm 2 prior to its opening in 1993.

Cell 5 has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX and benzene results are reported in parts per billion (ug/Kg) and the TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests this cell be approved for an initial lift.

Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Landfarm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

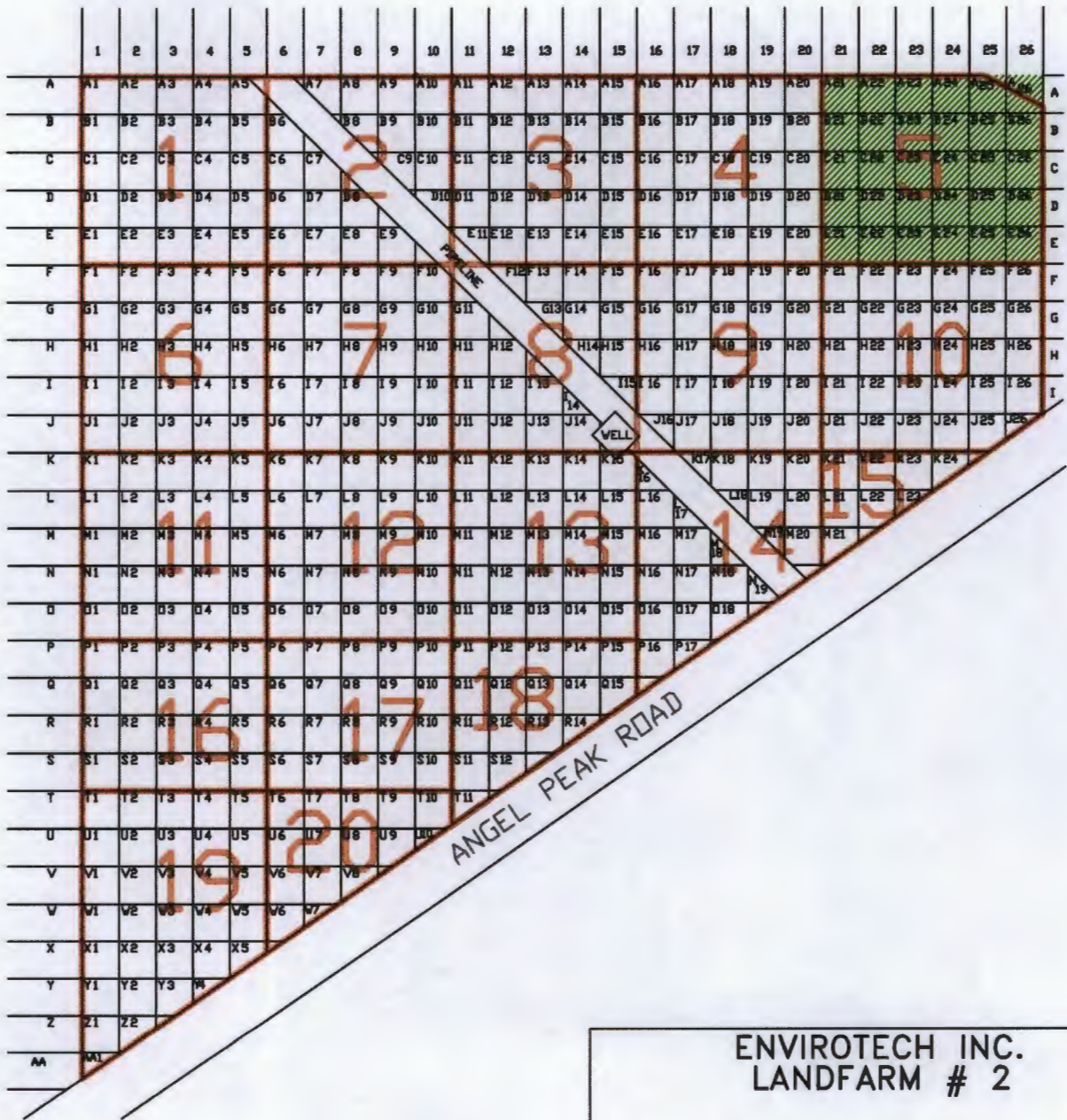
Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
**Envirotech, Inc.**

  
Morris Young  
President  
[myoung@envirotech-inc.com](mailto:myoung@envirotech-inc.com)

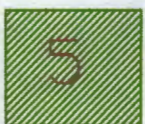
  
Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)





KEY

1 - 5 ACRE CELL



5 - CELL REQUESTING LIFT

ENVIROTECH INC.  
LANDFARM # 2

SCALE: NTS

PROJECT NO.

FIGURE NO.

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	FRA	5-21-13	BASE DRWN



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



## Report Summary

Client: Envirotech

Chain of Custody Number: 14382

Samples Received: 08-29-12

Job Number: 03037-0006

Sample Number(s): 63118

Project Name/Location: Landfarm 2 Closure Sampling

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be 'L. B.', is written over a horizontal line.

Date:

8/31/12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.





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

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 5	Date Reported:	08-30-12
Laboratory Number:	63118	Date Sampled:	08-29-12
Chain of Custody No:	14382	Date Received:	08-29-12
Sample Matrix:	Soil	Date Extracted:	08-30-12
Preservative:	Cool	Date Analyzed:	08-30-12
Condition:	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	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Closure Sampling**



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

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	0830TCAL QA/QC	Date Reported:	08-30-12
Laboratory Number:	63118	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-30-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	08-30-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	08-30-12	9.9960E+02	1.0000E+03	0.04%	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	

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	251	101%	75 - 125%
Diesel Range C10 - C28	ND	250	304	121%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 63115, 63118 and 63120-63121



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 5	Date Reported:	08-30-12
Laboratory Number:	63118	Date Sampled:	08-29-12
Chain of Custody:	14382	Date Received:	08-29-12
Sample Matrix:	Soil	Date Analyzed:	08-30-12
Preservative:	Cool	Date Extracted:	08-30-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	91.5 %
	1,4-difluorobenzene	91.8 %
	Bromochlorobenzene	87.0 %

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

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

**Comments: Landfarm 2 Closure Sampling**



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0830BCAL QA/QC	Date Reported:	08-30-12
Laboratory Number:	63118	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-30-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
	Accept. Range 0-15%				
Benzene	4.5925E-05	4.5925E-05	0.000	ND	0.2
Toluene	5.1936E-05	5.1936E-05	0.000	ND	0.2
Ethylbenzene	5.6320E-05	5.6356E-05	0.001	ND	0.2
p,m-Xylene	4.9625E-05	4.9625E-05	0.000	ND	0.2
o-Xylene	5.9855E-05	5.9855E-05	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	ND	ND	0.00	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	ND	ND	0.00	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2390	95.6	39 - 150
Toluene	ND	2500	2390	95.6	46 - 148
Ethylbenzene	ND	2500	2380	95.2	32 - 160
p,m-Xylene	ND	5000	4740	94.8	46 - 148
o-Xylene	ND	2500	2390	95.6	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 63090-63092, 63103 and 63118**



## Chloride

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 5	Date Reported:	08-30-12
Lab ID#:	63118	Date Sampled:	08-29-12
Sample Matrix:	Soil	Date Received:	08-29-12
Preservative:	Cool	Date Analyzed:	08-30-12
Condition:	Intact	Chain of Custody:	14382

Parameter	Concentration (mg/Kg)
-----------	-----------------------

**Total Chloride**

**4.13**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm 2 Closure Sampling**

# CHAIN OF CUSTODY RECORD

14382

Client: <b>Envirotech</b>			Project Name / Location: <b>Landfarm 2</b>			ANALYSIS / PARAMETERS															
Email results to: <b>Kendra Runing</b>			Sampler Name: <b>K. Peine</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:			Client No.: <b>03037-0006</b>																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH	BTEX	VOC	RCRA 8 Metals	Cation / Anion	FCl	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HgCl <sub>2</sub>	HCl	Seal														
Cell 5	8-29-12	15:30	63118	14oz Jar			X	X	X								X			Y	Y
Relinquished by: (Signature) <i>K. Peine</i>				Date 8-29-12	Time 16:30	Received by: (Signature) <i>Dene Z. Bzi</i>				Date 8/29/12	Time 16:30										
Relinquished by: (Signature)						Received by: (Signature)															
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					

☐ Sample(s) dropped off after hours to secure drop off area.

**Rush Please!!!**



**envirotech**  
Analytical Laboratory

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

**ENVIROTECH Inc.**

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

**FIELD REPORT: REMEDIATION FACILITY  
CLOSURE VERIFICATION**

JOB No. \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Land Farm 2  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: cell 5  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_

DATE STARTED: 8-27-12  
DATE FINISHED: \_\_\_\_\_  
ENVIRONMENTAL SPECIALIST: K. Peire

PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

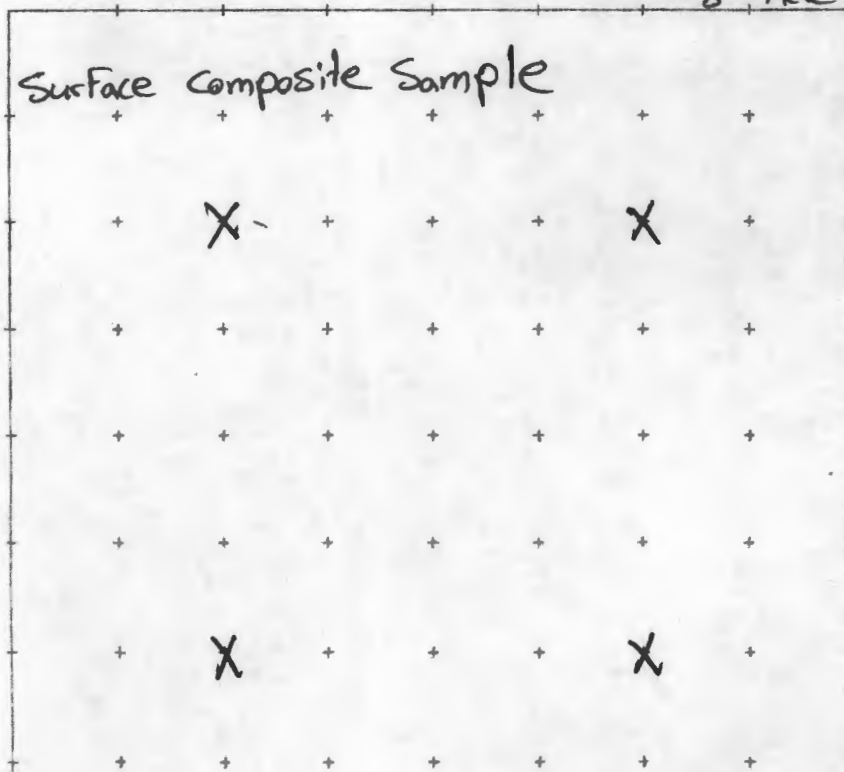
DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMOC:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

**FACILITY DIAGRAM**

GRID SCALE: 5-Acre Grid

Surface Composite Sample



**OVM  
RESULTS**

SAMPLE ID	FIELD HEADSPACE PID (ppm)

**LAB  
RESULTS**

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
5	8015	
5	8021	
5	3001	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

No Lift Zone / scraped to Native Sand



# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Jim Noel**  
Cabinet Secretary

**Karen W. Garcia**  
Deputy Cabinet Secretary

**Mark Fesmire**  
Division Director  
Oil Conservation Division



December 8, 2010

Kyle P. Kerr  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

**RE: Request for Approval to Reuse Remediated Soils for the Stabilization/Solidification of Drilling Mud, Tank Bottoms, and Sludge**  
**Envirotech, Inc.**  
**Commercial Landfarm #2: Permit NM-1-0011**  
**Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM**  
**San Juan County, New Mexico**

Dear Mr. Kerr:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated November 2, 2010 to remove approximately 15,000 cubic yards of remediated soils from **Cell 5**; stockpile in a designated bermed area; and utilize the remediated soils for the stabilization and/or solidification of incoming drilling mud, tank bottoms, and sludge. The analytical results provided in the request, demonstrates that Envirotech has remediated the contaminated soils within **Cell 5** to the concentration limits that would allow OCD the authority approval the application of additional lift.

OCD hereby grants Envirotech approval to reuse the remediated soils from **Cell 5** for the stabilization and/or solidification of incoming drilling mud, tank bottoms, and sludge with the following conditions:

**Cell 5:**

- Envirotech shall control blowing dust and reduce the potential of fugitive dust emissions while transferring the remediated soils from Cell 5 to the designated stockpile area. Pursuant Paragraph (6) of Subsection C of Section 15 of 19.15.36 NMAC, operational requirements regarding landfarms, Envirotech may "add moisture, as necessary," to the remediated soils "to control blowing dust."
- Envirotech shall complete a vadose zone monitoring/sampling event upon the removal of the remediated soils to the original native ground surface.
- If the remediated soils are removed in a phased approach, Envirotech shall complete a vadose zone monitoring/sampling event upon the removal of the remediated soils to the original native ground surface within each phase.

Oil Conservation Division  
1220 South St. Francis Drive • Santa Fe, New Mexico 87505  
Phone (505) 476-3440 • Fax (505) 476-3462 • [www.emnrd.state.nm.us/OCD](http://www.emnrd.state.nm.us/OCD)





- Envirotech shall comply with the release response provision of Paragraph (5) of Subsection E of 19.15.36.15 NMAC, if "vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations."
- Envirotech shall obtain OCD approval prior to the placement and application of contaminated soils within Cell 5.

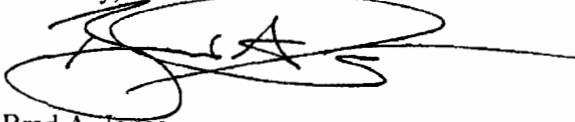
Stockpiling of Remediated Soils:

- Envirotech shall ensure that the area containing the stockpiled remediated soils be properly bermed to prevent the collection of surface water run-on and control storm water run-off.
- Envirotech shall ensure that no pooling or ponding of run-off water occur within the bermed stockpile area. Envirotech shall remove any ponding of precipitation within twenty-four (24) hours of discovery.
- Envirotech shall ensure that the stockpiled remediated soils do not exceed a height of six (6) feet.
- Envirotech shall control blowing dust and reduce the potential of fugitive dust emissions of the stockpiled remediated soils from leaving the surface waste management facility. Pursuant Paragraph (6) of Subsection C of Section 15 of 19.15.36 NMAC, operational requirements regarding landfarms, Envirotech may "add moisture, as necessary," to the stockpiled remediated soils "to control blowing dust." If necessary, OCD may require Envirotech to reduce the height of the stockpiled remediated soils to address fugitive dust emissions.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,



Brad A. Jones  
Environmental Engineer

BAJ/baj

Attachment: Facility Map (dated August 12, 2010)

cc: OCD District III Office, Aztec

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

April 26, 1993

RECEIVED  
APR 27 1993  
OIL CON. DIV.  
DIST. 3

Ms. Kathy Brown  
State of New Mexico Oil Conservation Division  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87504

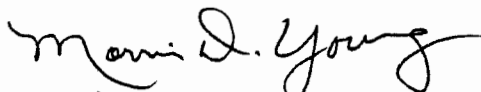
Dear Ms. Brown:

Attached please find the analytical results for the background soil sample of Landfarm No. 2 as required by our September 29, 1992 Rule 711 permit.

Initially Cell F-17 was sampled. The background levels were higher than anticipated for TPH and Total Metals. This site was close to a former natural gas well pad. Subsequently a second sample was taken from Cell H-14 which we believe is more representative of the actual average background of the facility.

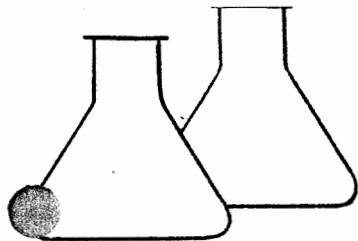
We appreciate working with your on this landfarm and the many other areas where you have been so helpful.

Sincerely,



Morris D. Young  
President

enclosure



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

RECEIVED

APR 27 1993

OIL CON

DIS.

## MODIFIED EPA METHOD 8015 NONHALOGENATED VOLATILE ORGANICS

Client:	Envirotech	Project #:	NA
Sample ID:	#1 Cell F-17 @ 2'	Date Reported:	03-29-93
Laboratory Number:	4816	Date Sampled:	03-19-93
Sample Matrix:	Soil	Date Received:	03-19-93
Preservative:	Cool	Date Analyzed:	03-26-93
Condition:	Cool and Intact	Analysis Requested:	TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.1
Diesel Range (C10 - C28)	18.3	0.1
C28 - C36 Range	ND	0.1
Total Petroleum Hydrocarbons	18.3	0.1

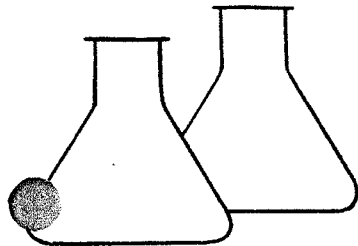
Method: Method 8015, Nonhalogenated Volatile Organics,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Landfarm #2 F-17, Base Line Sample

Dennis L. Apewee  
Analyst

Marion D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

RECEIVED

APR 27 1993

OIL CON. DIV.  
DIST. 3

## TRACE METAL ANALYSIS

Client:	Envirotech Land Farm	Project #:	NA
Sample ID:	#1 Cell F-17 @ 2'	Date Reported:	03-26-93
Laboratory Number:	4816	Date Sampled:	03-19-93
Sample Matrix:	Soil	Date Received:	03-19-93
Preservative:	Cool	Date Analyzed:	03-26-93
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

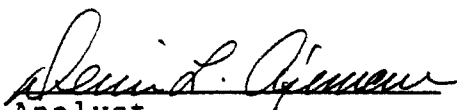
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
ARSENIC	0.70	0.001
BARIUM	27.0	0.1
CADMIUM	2.26	0.001
CHROMIUM	8.02	0.001
LEAD	3.66	0.001
MERCURY	3.40	0.002
SELENIUM	0.50	0.001
SILVER	ND	0.01

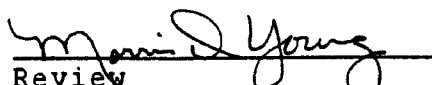
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

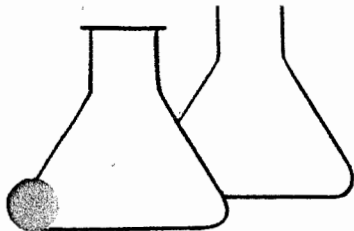
Client: **Envirotech**  
Sample ID: Landfarm#2  
Laboratory ID: 26905  
Sample Matrix: Water  
Condition: Cool/Intact

Date Reported: 04/07/93  
Date Sampled: 03/19/93  
Time Sampled: 1235  
Date Received: 03/30/93

Parameter	Analytical Result	Units	Units	
Lab pH.....	6.9	s.u.		
Lab Conductivity @ 25° C.....	248	umhos/cm		
Total Dissolved Solids @ 180°C.....	<10	mg/L		
Total Dissolved Solids (Calc).....	<10	mg/L		
Total Alkalinity as CaCO3.....	87	mg/L		
Total Hardness as CaCO3.....	<1	mg/L		
Bicarbonate as HCO3.....	106	mg/L	1.74	meq/L
Carbonate as CO3.....	0	mg/L	0.00	meq/L
Hydroxide as OH.....	0	mg/L	0.00	meq/L
Chloride.....	5.1	mg/L	0.14	meq/L
Sulfate.....	86	mg/L	1.80	meq/L
Calcium.....	69	mg/L	1.73	meq/L
Magnesium.....	11	mg/L	0.47	meq/L
Potassium.....	5.1	mg/L	0.13	meq/L
Sodium.....	11	mg/L	0.46	meq/L
Cations.....			2.79	meq/L
Anions.....			3.68	meq/L
Cation/Anion Difference.....			13.76	%

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", 17th ed., 1989.

Reviewed by \_\_\_\_\_



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Envirotech	Project #:	NA
Sample ID:	#1 Cell F-17 @ 2'	Date Sampled:	03-19-93
Laboratory Number:	4816	Date Received:	03-19-93
Sample Matrix:	Soil	Date Analyzed:	03-22-93
Preservative:	Cool	Date Reported:	03-22-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	16.3	5.0

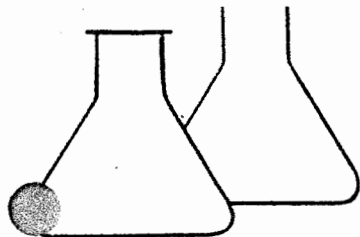
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Landfarm #2 F-17  
Baseline Sample

Steve Feltman  
Analyst

\_\_\_\_\_  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

MODIFIED EPA METHOD 8015  
NONHALOGENATED VOLATILE ORGANICS  
TOTAL PETROLEUM HYDROCARBONS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	03-29-93
Laboratory Number:	0326TPH.BLK	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Analyzed:	03-26-93
Condition:	NA	Analysis Requested:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
-----	-----	-----
Gasoline Range C5 - C10	ND	0.1
Diesel Range C10 - C28	ND	0.1
C28 - C36 Range	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

Method: Method 8015, Nonhalogenated Volatile Organics,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

*Dennis L. Givens*  
Analyst

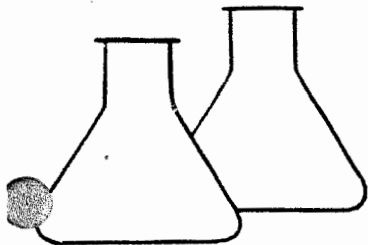
*Marion D. Young*  
Review

## CHAIN OF CUSTODY RECORD

Client/Project Name <b>ENVIROTECH LAND FARM</b>			Project Location <b>LANDFARM # 2 F-17</b>		ANALYSIS/PARAMETERS							
Sampler: (Signature) <i>Mari Q Young</i>			Chain of Custody Tape No.		No. of Containers <b>418.1</b>	<b>TPH</b>	<b>GENERAL CHEMISTRY</b>	<b>METALS</b>				Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<b>#1 Cell F-17 @ 2'</b>	<b>3/19/93</b>	<b>1235</b>	<b>4816</b>	<b>Soil</b>	<b>2</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>				<b>BASE LINE SAMPLER</b>
Relinquished by: (Signature) <i>Mari Q Young</i>			Date <b>3/19/93</b>	Time <b>14:28</b>	Received by: (Signature) <i>Linda Pender</i>			Date <b>3-19-93</b>	Time <b>1428</b>			
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							

**ENVIROTECH INC.**  
 5796 U.S. Highway 64-3014  
 Farmington, New Mexico 87401  
 (505) 632-0615





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EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS

OIL CON  
DIST. 3

Client:	Envirotech	Project #:	NA
Sample ID:	H-14	Date Sampled:	04-20-93
Laboratory Number:	4963	Date Received:	04-21-93
Sample Matrix:	Soil	Date Analyzed:	04-22-93
Preservative:	Cool	Date Reported:	04-22-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	5.5	5.0

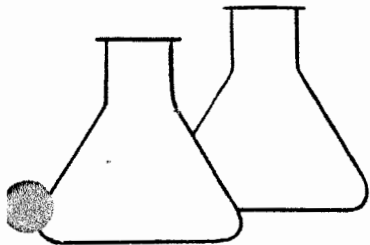
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Landfarm #2, Hilltop, New Mexico.

Chaharlang  
Analyst

Maris D. Young  
Review



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OIL CON  
DIST.

## TRACE METAL ANALYSIS

Client:	Envirotech	Project #:	NA
Sample ID:	H - 14	Date Reported:	04-21-93
Laboratory Number:	4963	Date Sampled:	04-20-93
Sample Matrix:	Soil	Date Received:	04-21-93
Preservative:	Cool	Date Analyzed:	04-21-93
Condition:	Cool & Intact	Analysis Needed:	Trace metals

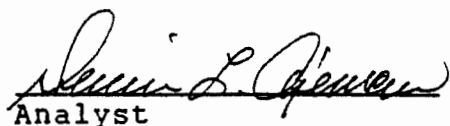
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
ARSENIC	ND	0.0001
BARIUM	ND	0.01
CADMIUM	0.0005	0.0001
CHROMIUM	ND	0.0001
LEAD	0.0053	0.0001
MERCURY	0.0012	0.0002
SELENIUM	ND	0.0001
SILVER	ND	0.001

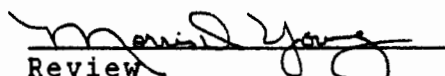
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

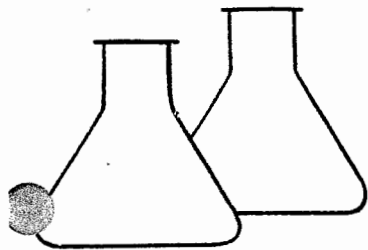
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm #1, Hilltop, New Mexico

  
Analyst

  
Review



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OIL CON. 1  
DIST. 3

EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS

Client:	N/A	Project #:	N/A
Sample ID:	Laboratory Blank	Date Sampled:	N/A
Laboratory Number:	TPSB0422	Date Received:	N/A
Sample Matrix:	Soil	Date Analyzed:	04-22-9
Preservative:	N/A	Date Reported:	04-22-9
Condition:	N/A	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	ND	5.0

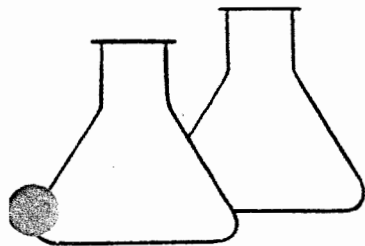
ND = Parameter not detected at the stated detection limit.  
N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total  
Recoverable, Chemical Analysis of Water and  
Waste, USEPA Storet No.4551, 1978

Comments:

As Chaharlag  
Analyst

Moni D Young  
Review



# ENVIROTECH LABS

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OIL CON. DIV.  
DIST. 3

## TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	04-22-93
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	Cool	Date Analyzed:	04-21-93
Condition:	NA	Analysis Needed:	Trace Metals

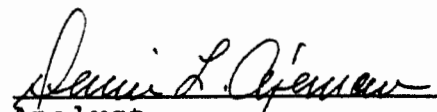
Parameter	Instrument Blank (mg/Kg)	Method Blank (mg/Kg)	Det. Limit (mg/Kg)
-----	-----	-----	-----
ARSENIC	ND	ND	0.0001
BARIUM	ND	ND	0.01
CADMIUM	ND	ND	0.0001
CHROMIUM	ND	ND	0.0001
LEAD	ND	ND	0.0001
MERCURY	ND	ND	0.0002
SELENIUM	ND	ND	0.0001
SILVER	ND	ND	0.001

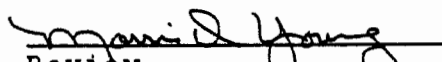
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

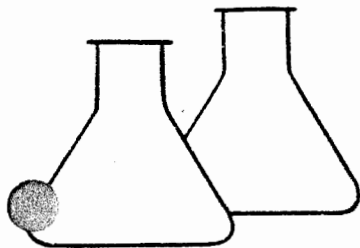
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

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OIL CON. DIV  
DIST. 3

\*\* QUALITY ASSURANCE REPORT  
MATRIX SPIKE - TOTAL PETROLEUM HYDROCARBONS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Spike	Date Sampled:	NA
Laboratory Number:	TPSS405S	Date Received:	NA
Sample Matrix:	Soil	Date Analyzed:	04-22-93
Analysis Requested:	TPH	Date Reported:	04-22-93

Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked sample Result (mg/kg)	Percent Recovery
Total Petroleum Hydrocarbons	ND	484	491	101

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TPH	80 - 120

ND - Parameter not detected at the stated detection limit.

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

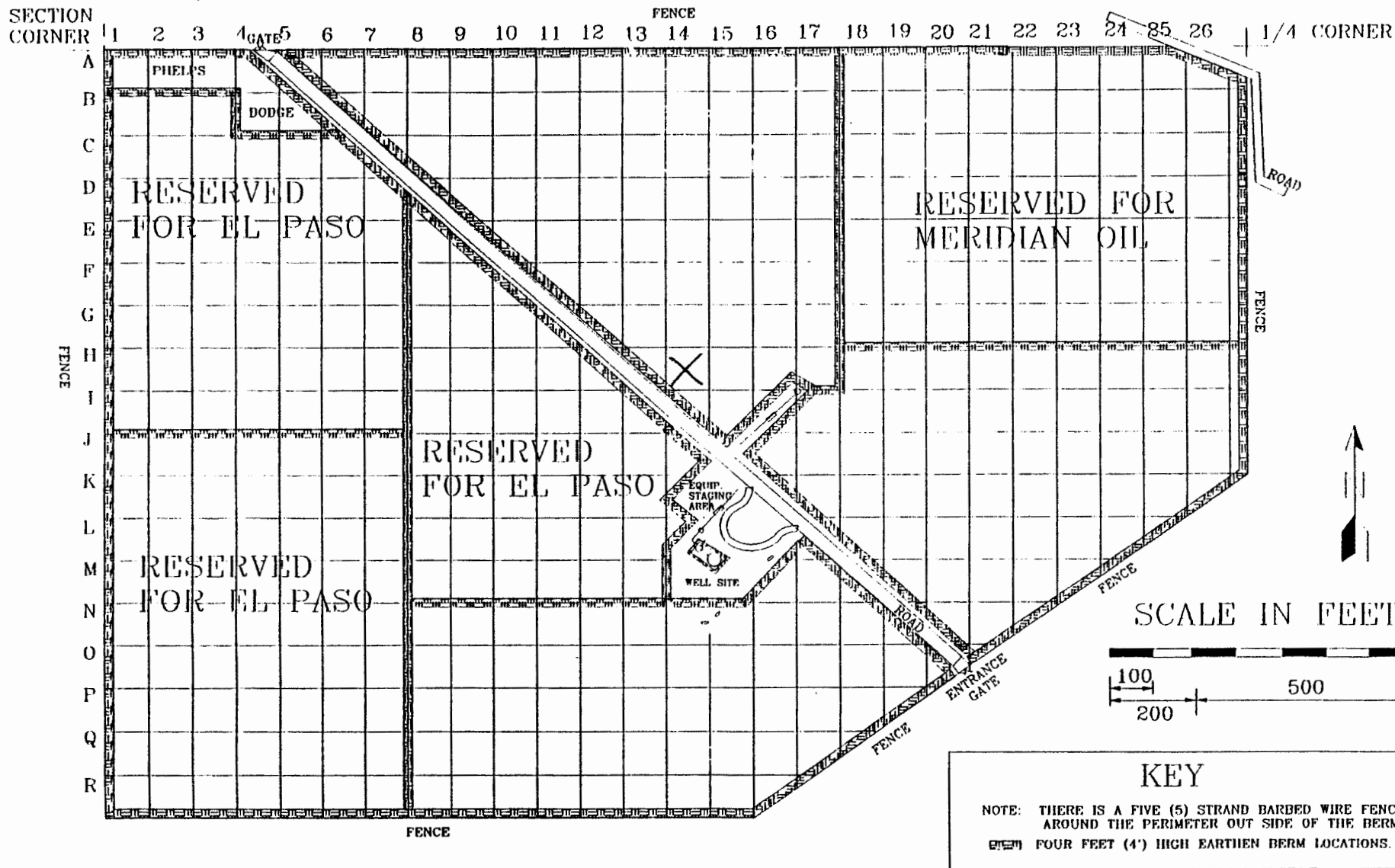
Comments:

Ae Chaharlang  
Analyst

Maris Young  
Review

## CHAIN OF CUSTODY RECORD

[illegible]



ENVIROTECH INC.  
LAND FARM  
NO. 2

NORTHERN 100 ACRES OF THE  
NORTHWEST 1/4 OF SECTION  
6, TOWNSHIP 26 NORTH,  
RANGE 10 WEST, NMPM.

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Susana Martinez**  
Governor

**John Bemis**  
Cabinet Secretary

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey**  
Division Director  
Oil Conservation Division



April 15, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM-1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, received February 1, 2013, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 43, 61, and 64.**

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

Brad A. Jones  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec





RECEIVED OCD  
RECEIVED OCD  
2013 APR 12 A 11: 18  
2013 APR 12 A 11: 18

March 2013

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

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELLS 43, 61, AND 64 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of successive lifts at Envirotech's Land Farm #2 for cells 43, 61, and 64 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cells (cells 43, 61, and 64) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX and benzene results are reported in parts per billion (ug/Kg) and the TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

Cell 43: 10325 cy (~16") Cell 61: 10731 cy (~16") Cell 64: 10414 cy (~16")

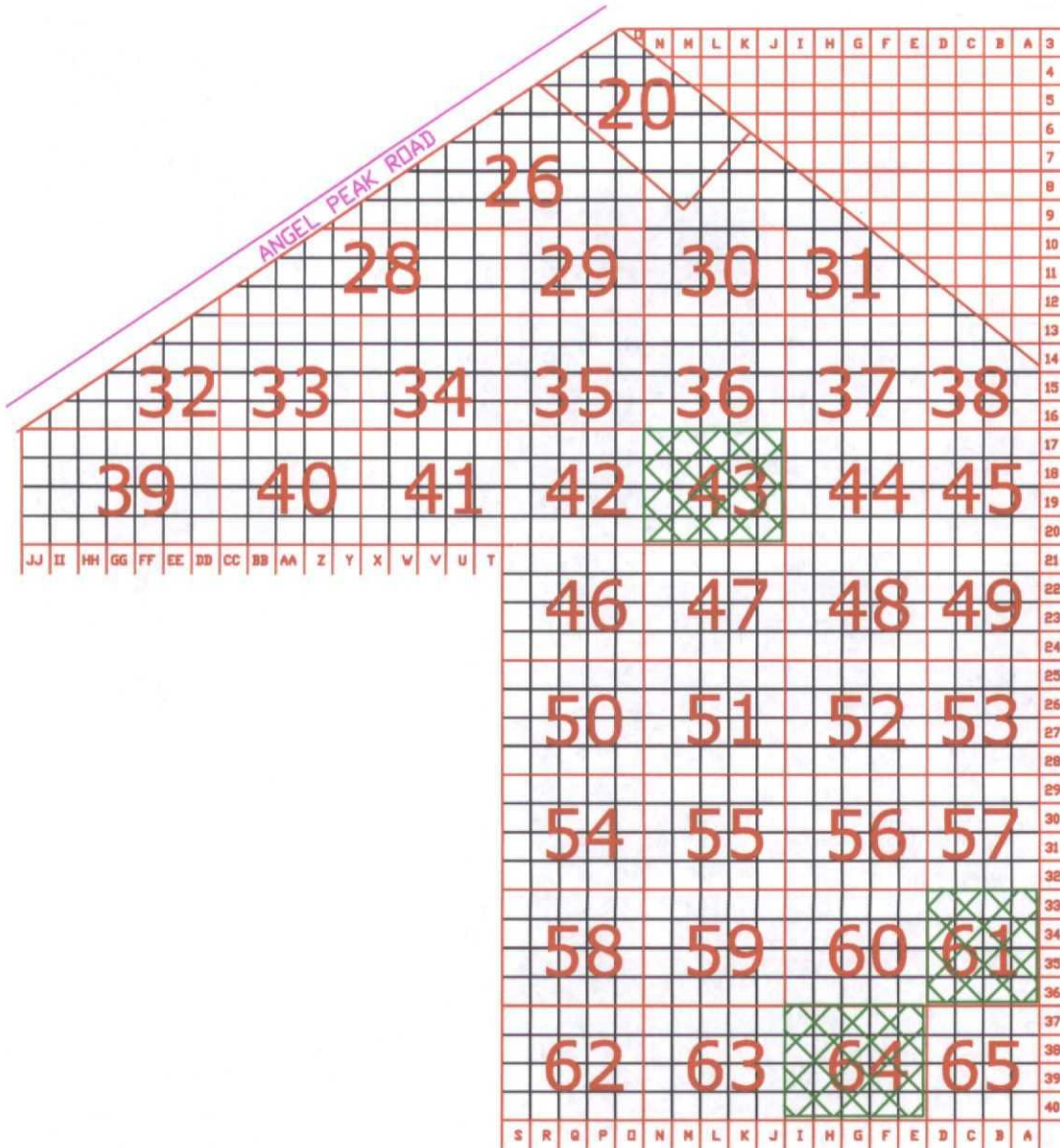
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)



# LEGEND

62 5 ACRE CELL

61 5 ACRE CELLS  
RESQUESTING LIFT

ENVIROTECH  
NMOCD PERMITTED  
LANDFARM # 2  
UNIT 5

SCALE: 1=100'

PROJECT NO.

FIGURE NO.

REV

REVISIONS

NO. DATE BY

DESCRIPTION

MAP DRWN JMK

4/11/13

BASE DRWN



envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 15309

Samples Received: 3/18/2013 4:15:00PM

Job Number: 03037-0006

Work Order: P303062

Project Name/Location: LF 2-5 2013 Semi Ann.

Tmt Zone Monitoring 1st Evt

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 3/27/13

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 3/26/13 11:34 am

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

Envirotech  
 5796 US HWY 64  
 Farmington NM, 87401

Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt  
 Project Number: 03037-0006  
 Project Manager: Kendra Runung

Reported:  
 27-Mar-13 08:44

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 37	P303062-01A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 38	P303062-02A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 39	P303062-03A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 40	P303062-04A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 41	P303062-05A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 42	P303062-06A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 43	P303062-07A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 44	P303062-08A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 45	P303062-09A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.
Cell 46	P303062-10A	Soil	03/18/13	03/18/13	Glass Jar, 4 oz.

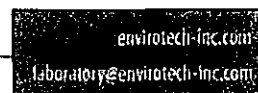
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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879





Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Ext Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 27-Mar-13 08:44
--	---	------------------------------

### Cell 43

#### P303062-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	50.3	ug/L	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B	
Toluene	ND	50.3	ug/L	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B	
Ethylbenzene	ND	50.3	ug/L	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B	
p,m-Xylene	ND	50.3	ug/L	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B	
o-Xylene	ND	50.3	ug/L	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B	
Total BTEX	ND	50.3	ug/L	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B	
Surrogate: Bromochlorobenzene		121 %	80-120		1312019	20-Mar-13	25-Mar-13	EPA 8021B	Surrl
Surrogate: 1,4-Difluorobenzene		93.4 %	80-120		1312019	20-Mar-13	25-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene		102 %	80-120		1312019	20-Mar-13	25-Mar-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg	1	1312018	20-Mar-13	26-Mar-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	5.0	mg/kg	1	1312018	20-Mar-13	26-Mar-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.0	mg/kg	1	1312018	20-Mar-13	26-Mar-13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	289	1.00	mg/kg	1	1313008	25-Mar-13	25-Mar-13	EPA 300.0	

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Ph (970) 259-0615 Fr (800) 362-1879





Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt Project Number: 03037-0006 Project Manager: Kendra Runing	Reported: 27-Mar-13 08:44
--	---	------------------------------

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1312019 - Purge and Trap EPA 5030A

<b>Blank (1312019-BLK1)</b>			Prepared: 20-Mar-13 Analyzed: 22-Mar-13							
Benzene	ND	1.00	ug/L							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
p,m-Xylene	ND	1.00	"							
o-Xylene	ND	1.00	"							
Total BTEX	ND	1.00	"							
Surrogate: Bromochlorobenzene	44.7		"	50.0		89.5	80-120			
Surrogate: 1,4-Difluorobenzene	46.3		"	50.0		92.5	80-120			
Surrogate: Fluorobenzene	47.8		"	50.0		95.7	80-120			

<b>Duplicate (1312019-DUP1)</b>			Source: P303061-01		Prepared: 20-Mar-13 Analyzed: 22-Mar-13					
Benzene	ND	50.2	ug/L		ND				30	
Toluene	ND	50.2	"		ND				30	
Ethylbenzene	ND	50.2	"		ND				30	
p,m-Xylene	ND	50.2	"		ND				30	
o-Xylene	ND	50.2	"		ND				30	
Surrogate: Bromochlorobenzene	47.0		"	50.0		94.1	80-120			
Surrogate: 1,4-Difluorobenzene	47.9		"	50.0		95.9	80-120			
Surrogate: Fluorobenzene	46.9		"	50.0		93.9	80-120			

<b>Matrix Spike (1312019-MS1)</b>			Source: P303061-01		Prepared: 20-Mar-13 Analyzed: 22-Mar-13					
Benzene	46.3		ug/L	50.0	0.67	91.2	39-150			
Toluene	50.2		"	50.0	0.83	98.7	46-148			
Ethylbenzene	49.4		"	50.0	0.22	98.4	32-160			
p,m-Xylene	99.1		"	100	0.85	98.3	46-148			
o-Xylene	49.4		"	50.0	0.49	97.9	46-148			
Surrogate: Bromochlorobenzene	48.1		"	50.0		96.1	80-120			
Surrogate: 1,4-Difluorobenzene	49.0		"	50.0		97.9	80-120			
Surrogate: Fluorobenzene	44.1		"	50.0		88.2	80-120			

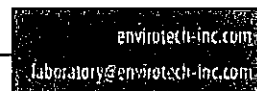
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5796 US Highway 64, Farmington, NM 87401

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Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
27-Mar-13 08:44

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch 1312018 - GRO/DRO Extraction EPA 3550C

##### Blank (1312018-BLK1)

Prepared: 20-Mar-13 Analyzed: 26-Mar-13

Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg
Diesel Range Organics (C10-C28)	ND	5.0	"
GRO and DRO Combined Fractions	ND	5.0	"

##### Duplicate (1312018-DUP1)

Source: P303061-01

Prepared: 20-Mar-13 Analyzed: 26-Mar-13

Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg	ND				30
Diesel Range Organics (C10-C28)	67.7	5.0	"	65.5			3.34	30

##### Matrix Spike (1312018-MS1)

Source: P303061-01

Prepared: 20-Mar-13 Analyzed: 26-Mar-13

Gasoline Range Organics (C6-C10)	241	5.0	mg/kg	249	ND	97.0	75-125
Diesel Range Organics (C10-C28)	314	5.0	"	249	65.5	99.9	75-125

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laboratory@envirotech-inc.com



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
27-Mar-13 08:44

### Cation/Anion Analysis - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1313008 - Anion Extraction EPA 300.0</b>										
<b>Blank (1313008-BLK1)</b>										
					Prepared & Analyzed: 25-Mar-13					
Chloride	ND	1.00	mg/kg							
<b>Duplicate (1313008-DUP1)</b>										
Source: P303062-01					Prepared & Analyzed: 25-Mar-13					
Chloride	80.0	1.00	mg/kg		79.3			0.939	30	

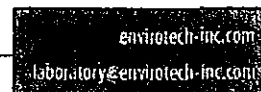
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Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
27-Mar-13 08:44

#### Notes and Definitions

Surr l Surrogate recovery was above acceptable limits.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

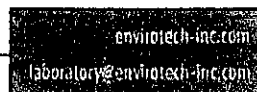
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# CHAIN OF CUSTODY RECORD

15309

Page 17 of 17

Client: <b>Envirotech</b>		Project Name / Location: <b>Treatment Zone Monitoring Event #1</b>		ANALYSIS / PARAMETERS															
Email results to: <b>T. McIntosh</b>		Sampler Name: <b>T. McIntosh</b>																	
Client Phone No.:		Client No.: <b>03037-0006</b>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HgCl <sub>2</sub>	HCl	cool												
cell 37	3/18/13	1135	P303062-01	1-4oz jar			X	X	X								X	X	X
cell 38		1130	P303062-02																
cell 39		1250	P303062-03																
cell 40		1240	P303062-04																
cell 41		1235	P303062-05																
cell 42		1220	P303062-06																
cell 43		1120	P303062-07																
cell 44		1110	P303062-08																
cell 45		1100	P303062-09																
cell 46		1055	P303062-10																
Relinquished by: (Signature) <i>Liffany McIntosh</i>				Date	Time	Received by: (Signature) <i>William Joe</i>				Date	Time								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			

☐ Sample(s) dropped off after hours to secure drop off area.



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## Analytical Report

### Report Summary

Client: Envirotech

Chain Of Custody Number: 15122

Samples Received: 2/5/2013 4:00:00PM

Job Number: 03037-0006

Work Order: P302019

Project Name/Location: LF 2-5 2013 Semi Ann.

Tmt Zone Monitoring 1st Evt

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 3/21/13

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 2/20/13 1:20 pm

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Envirotech  
5796 US HWY 64  
Farmington NM, 87401

Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
21-Mar-13 14:57

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 58	P302019-01A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.
Cell 59	P302019-02A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.
Cell 60	P302019-03A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.
Cell 61	P302019-04A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.
Cell 62	P302019-05A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.
Cell 63	P302019-06A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.
Cell 64	P302019-07A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.
Cell 65	P302019-08A	Soil	02/05/13	02/05/13	Glass Jar, 4 oz.

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Envirotech  
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 Farmington NM, 87401

 Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt  
 Project Number: 03037-0006  
 Project Manager: Kendra Runung

 Reported:  
 21-Mar-13 14:57

**Cell 61**
**P302019-04 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Toluene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Ethylbenzene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
o-Xylene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Total BTEX	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		95.6 %	80-120		1308016	19-Feb-13	19-Feb-13	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		93.8 %	80-120		1308016	19-Feb-13	19-Feb-13	EPA 8021B	
<i>Surrogate: Fluorobenzene</i>		93.3 %	80-120		1308016	19-Feb-13	19-Feb-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg	1	1307008	11-Feb-13	14-Feb-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	5.0	mg/kg	1	1307008	11-Feb-13	14-Feb-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.0	mg/kg	1	1307008	11-Feb-13	14-Feb-13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	ND	1.00	mg/kg	1	1307013	12-Feb-13	12-Feb-13	EPA 300.0	

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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 21-Mar-13 14:57
--	---	------------------------------

**Cell 64**  
**P302019-07 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Toluene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Ethylbenzene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
o-Xylene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Total BTEX	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Surrogate: Bromochlorobenzene		95.1 %	80-120		1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.4 %	80-120		1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Surrogate: Fluorobenzene		97.8 %	80-120		1308016	19-Feb-13	19-Feb-13	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	4.9	mg/kg	1	1307008	11-Feb-13	15-Feb-13	EPA 8015D	
Diesel Range Organics (C10-C28)	7.9	4.9	mg/kg	1	1307008	11-Feb-13	15-Feb-13	EPA 8015D	
GRO and DRO Combined Fractions	7.9	4.9	mg/kg	1	1307008	11-Feb-13	15-Feb-13	EPA 8015D	
<b>Cation/Anion Analysis</b>									
Chloride	ND	1.00	mg/kg	1	1307013	12-Feb-13	12-Feb-13	EPA 300.0	

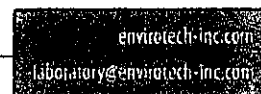
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Envirotech	Project Name:	LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt	Reported:
5796 US HWY 64	Project Number:	03037-0006	21-Mar-13 14:57
Farmington NM, 87401	Project Manager:	Kendra Runung	

### Volatile Organics by EPA 8021 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1308016 - Purge and Trap EPA 5030A

<b>Blank (1308016-BLK1)</b>				Prepared & Analyzed: 19-Feb-13						
Benzene	ND	50.0	ug/kg							
Toluene	ND	50.0	"							
Ethylbenzene	ND	50.0	"							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	50.0	"							
Total BTEX	ND	50.0	"							
Surrogate: Bromochlorobenzene	2400		"	2500		95.8	80-120			
Surrogate: 1,4-Difluorobenzene	2360		"	2500		94.4	80-120			
Surrogate: Fluorobenzene	2400		"	2500		96.0	80-120			

<b>Duplicate (1308016-DUP1)</b>				Source: P302080-01	Prepared & Analyzed: 19-Feb-13					
Benzene	215	50.0	ug/kg		220			2.51	30	
Toluene	147	50.0	"		144			2.20	30	
Ethylbenzene	162	50.0	"		188			14.4	30	
p,m-Xylene	1890	50.0	"		1900			0.519	30	
o-Xylene	312	50.0	"		314			0.751	30	
Surrogate: Bromochlorobenzene	2620		"	2500		105	80-120			
Surrogate: 1,4-Difluorobenzene	2410		"	2500		96.5	80-120			
Surrogate: Fluorobenzene	2440		"	2500		97.6	80-120			

<b>Matrix Spike (1308016-MS1)</b>				Source: P302080-01	Prepared & Analyzed: 19-Feb-13					
Benzene	2630	50.0	ug/kg	2500	220	96.3	39-150			
Toluene	2650	50.0	"	2500	144	100	46-148			
Ethylbenzene	2670	50.0	"	2500	188	99.5	32-160			
p,m-Xylene	6780	50.0	"	5000	1900	97.5	46-148			
o-Xylene	2730	50.0	"	2500	314	96.5	46-148			
Surrogate: Bromochlorobenzene	2760		"	2500		110	80-120			
Surrogate: 1,4-Difluorobenzene	2510		"	2500		100	80-120			
Surrogate: Fluorobenzene	2540		"	2500		102	80-120			

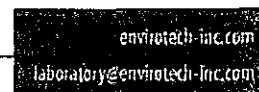
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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt Project Number: 03037-0006 Project Manager: Kendra Runung	Reported: 21-Mar-13 14:57
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### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch 1307008 - GRO/DRO Extraction EPA 3550C

<b>Blank (1307008-BLK1)</b>		Prepared: 11-Feb-13 Analyzed: 14-Feb-13								
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.0	"							
GRO and DRO Combined Fractions	ND	5.0	"							

<b>Duplicate (1307008-DUP1)</b>		Source: P302019-01		Prepared: 11-Feb-13 Analyzed: 14-Feb-13						
Gasoline Range Organics (C6-C10)	5.6	5.0	mg/kg		5.3			5.84	30	
Diesel Range Organics (C10-C28)	747	5.0	"		757			1.32	30	

<b>Matrix Spike (1307008-MS1)</b>		Source: P302019-01		Prepared: 11-Feb-13 Analyzed: 14-Feb-13						
Gasoline Range Organics (C6-C10)	259	5.0	mg/kg	249	5.3	102	75-125			
Diesel Range Organics (C10-C28)	1030	5.0	"	249	757	109	75-125			

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Farmington NM, 87401

Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt  
Project Number: 03037-0006  
Project Manager: Kendra Runung

Reported:  
21-Mar-13 14:57

#### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

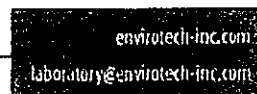
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# CHAIN OF CUSTODY RECORD

15122

Page 14 of 14

Client: <b>Envirotech</b>			Project Name / Location: <b>Landfarm 2 unit 5</b>			ANALYSIS / PARAMETERS															
Email results to: <b>Kendra Runyon</b>			Sampler Name: <b>K. Peine</b>			<b>1st Quarter Closure Sampling</b> <b>LF 2-5 spec. Ann. Tnt Zone Monitoring 1st Evt</b>															
Client Phone No.:			Client No.: <b>03037-0006</b>																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HgCl <sub>2</sub>	HCl	Co														
Cell 58	2-5-13	13:00	P302019-01A	1 4oz Jar			X	X	X								X			✓	✓
Cell 59	2-5-13	13:15	P302019-02A																		
Cell 60	2-5-13	13:30	P302019-03A																		
Cell 61	2-5-13	13:45	P302019-04A																		
Cell 62	2-5-13	12:00	P302019-05A																		
Cell 63	2-5-13	12:15	P302019-06A																		
Cell 64	2-5-13	12:30	P302019-07A																		
Cell 65	2-5-13	12:45	P302019-08A																		
Relinquished by: (Signature) <i>[Signature]</i>					Date	Time	Received by: (Signature) <i>[Signature]</i>					Date	Time								
					2-5-13	16:00						2-5-13	16:00								
Relinquished by: (Signature)							Received by: (Signature)														
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					



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# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C # \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOS No. \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Land farm 2

DATE STARTED: 3/18/13

SOURCE LOCATION: cell 43

DATE FINISHED: \_\_\_\_\_

SOURCE LOCATION: semi-annual treatment zone monitoring (event #1)

ENVIRONMENTAL  
SPECIALIST: T. McIntosh

FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

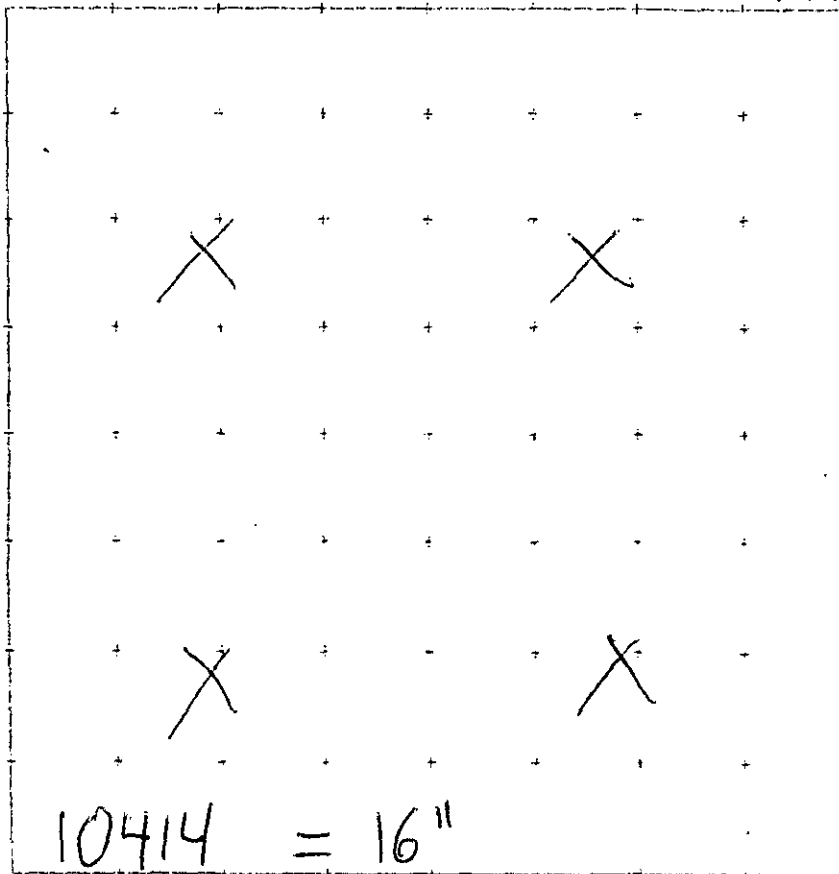
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER  
MAX TPH PER NMDCD:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 acre cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE FD (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS DAY
43	8015	
43	8021	
43	chlor	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

# ENVIROTECH Inc.

5755 US HWY. 64, FARMINGTON, NM 87401  
(505) 832-0615

PIT No: \_\_\_\_\_  
C.O.C. #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOE No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Landfarm 2 units 5 2013 Semi-Annual  
SOURCE LOCATION: Treatment Zone  
SOURCE LOCATION: Cell # 61 Monitoring (Event #1)  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ P.T. TYPE: \_\_\_\_\_

DATE STARTED: 2-5-13  
DATE FINISHED: \_\_\_\_\_  
ENVIRONMENTAL SPECIALIST: K. Peire

SOIL REMEDIATION QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

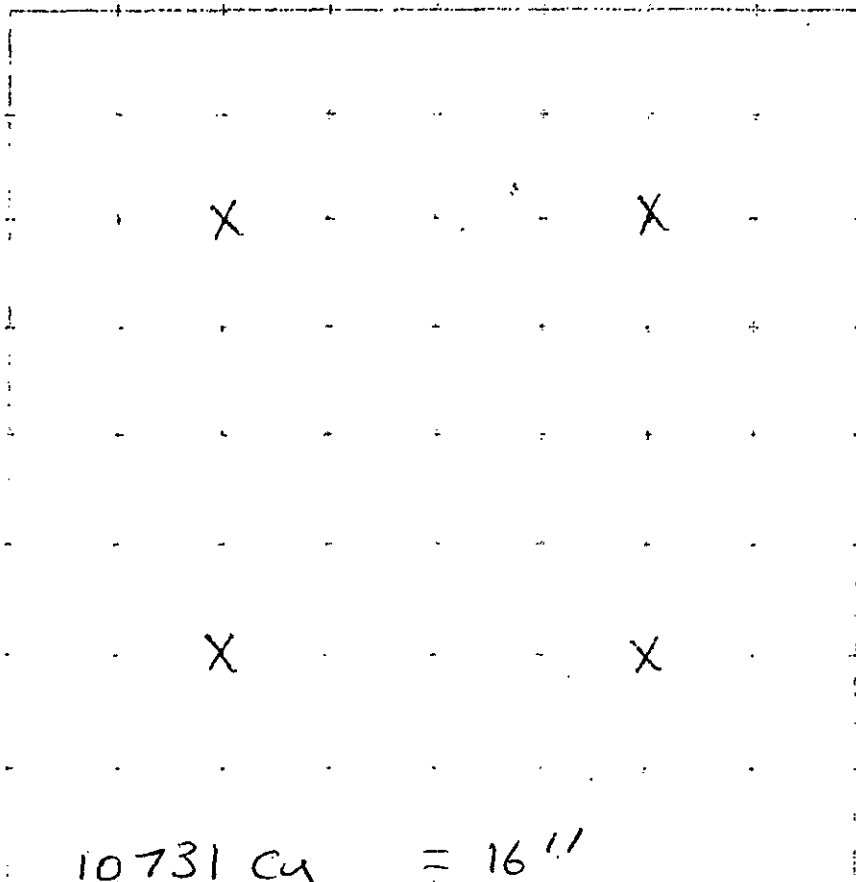
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_  
NEAREST WATER SOURCE/TYPE: \_\_\_\_\_  
NEAREST SURFACE WATER: \_\_\_\_\_  
MAX TPH PER NMOCB: \_\_\_\_\_

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE ---#  
0-200=1  
201-400=2  
401-1000=3  
1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 Acre Cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P.D. (cm)

NORTH

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED

WELL HEAD

SURFACE FLOW DIR

ESTIMATED GROUNDWATER FLOW DIR

10731 cy = 16''

# ENVIROTECH Inc.

5766 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Landfarm 2 units 2013 Semi Annual  
SOURCE LOCATION: Treatment Zone  
SOURCE LOCATION: Cell # 64 Monitoring (Event #1)  
SOURCE LOCATION: g  
FACILITY CLASSIFICATION: \_\_\_\_\_  
DATE STARTED: 2-5-13  
DATE FINISHED: \_\_\_\_\_  
ENVIRONMENTAL SPECIALIST: K. Peire

SOIL REMEDIATION QUANTITY: \_\_\_\_\_ # OF COMP SAMPLES: \_\_\_\_\_  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX \_\_\_\_\_ YARDS FROM WELLHEAD.

DEPTH TO GROUNDWATER: \_\_\_\_\_  
NEAREST WATER SOURCE/TYPE: \_\_\_\_\_  
NEAREST SURFACE WATER: \_\_\_\_\_  
MAX TPH PER NMOCB: \_\_\_\_\_

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
1000+=5

## FACILITY DIAGRAM

GRID SCALE: 5 Acre Cell

## OVM RESULTS

SAMPLE FIELD HEADSPACE  
ID PD (mm)

NORTH

## LAB RESULTS

SAMPLE ANALYSIS  
ID REPORT NO.

WELLHEAD

SURFACE  
FLUX

ESTIMATED  
GROUNDWATER  
FLUX

10414 cy = 16"

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

Susana Martinez  
Governor

John Bemis  
Cabinet Secretary

Brett F. Woods, Ph.D.  
Deputy Cabinet Secretary

Jami Bailey  
Division Director  
Oil Conservation Division



February 5, 2013

Kendra Runung  
Envirotech, Inc.  
5796 US Highway 64  
Farmington, New Mexico 87401

RE: Request for Approval to Apply a Successive Lift  
Envirotech, Inc.  
Commercial Landfarm #2: Permit NM-1-011  
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM  
San Juan County, New Mexico

Dear Ms. Runung:

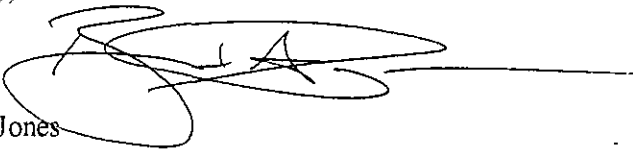
The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, received February 1, 2013, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 8, 14, and 20.**

Based upon the analytical results provided, OCD hereby grants Envirotech approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts Envirotech must initiate treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve Envirotech of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve Envirotech of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

  
Brad A. Jones  
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

**Jones, Brad A., EMNRD**

---

**From:** Kendra Runung <krunung@envirotech-inc.com>  
**Sent:** Friday, February 01, 2013 9:05 AM  
**To:** Jones, Brad A., EMNRD  
**Subject:** Correct Map for Lift Request  
**Attachments:** Landfarm 2 Map - Cells 8, 14and 20 Marked.pdf

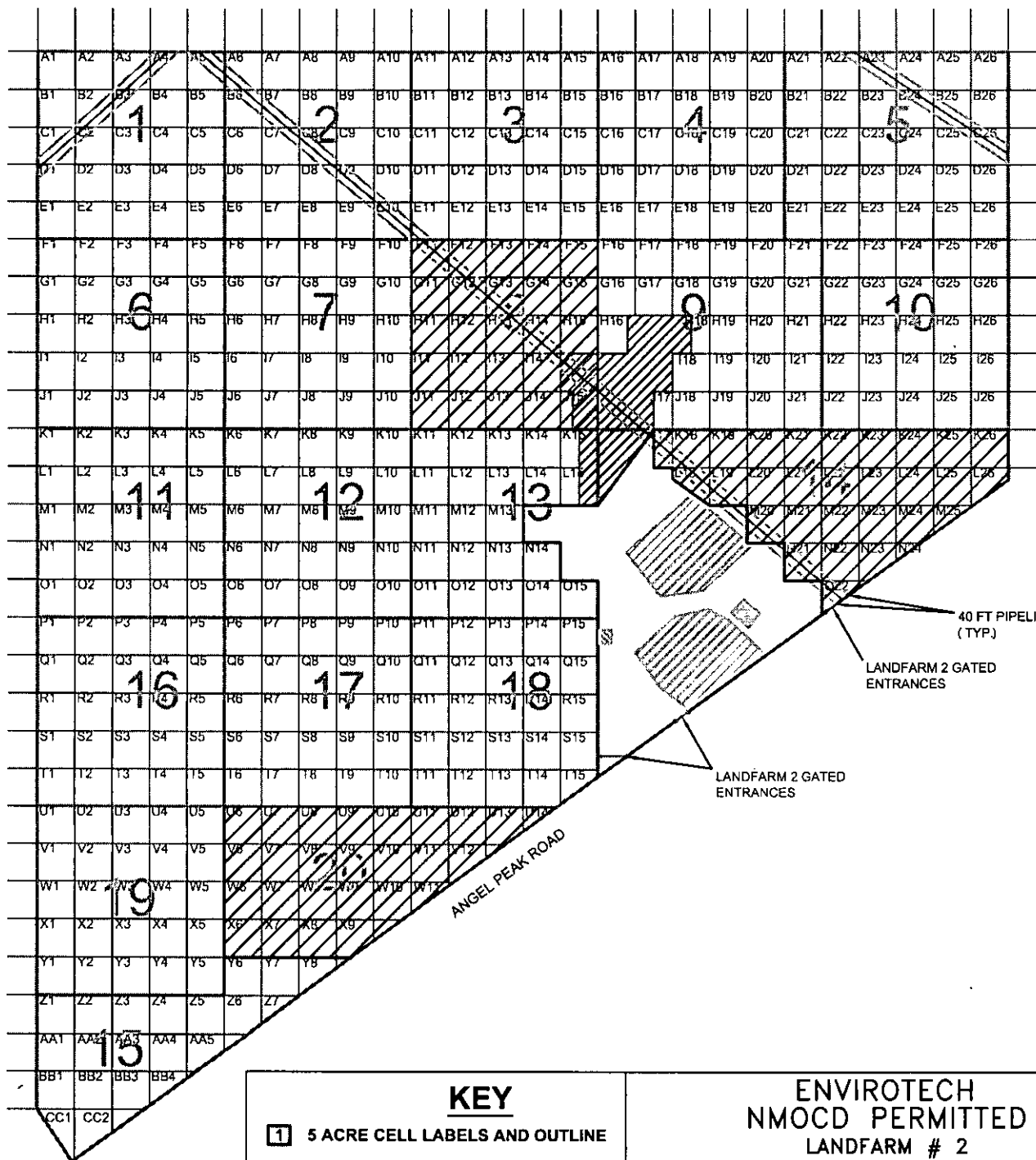
Brad,

I sent you a FedEx yesterday with a request to add a new lift to several cells. I mistakenly included a map of the Landfarm that did not specifically identify the cells that we are requesting a new lift for. Please see attached for the correct map. You should receive the FedEx on Monday.

If you have any questions, please don't hesitate to contact me at (505) 632-0615.

Sincerely,

**Kendra Runung**  
Waste Coordinator  
Envirotech, Inc.  
5796 U.S. Hwy 64  
Farmington, NM 87401  
Office: (505) 632-0615  
Cell: (505) 947-7892  
Fax: (505) 632-1865



### KEY

- 1** 5 ACRE CELL LABELS AND OUTLINE
- CELL LABELS
- UNFARMABLE AREA OUTLINE
- BLENDING FACILITY
- BLENDING STOCKPILES
- WELLSITES
- PIPELINES
- 40 FOOT PIPELINE R.O.W.
- GATES
- FIELD OFFICE

### ENVIROTECH NMOCD PERMITTED LANDFARM # 2 5 ACRE CELLS

SCALE: NTS

PROJECT NO.

FIGURE NO.

REV

#### REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	JKA	1/11/13	BASE DRWN



# envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615





January 2013

RECEIVED OCD

2013 FEB -1 A 11:30

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

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:  
CELLS 8, 14 AND 20 IN LANDFARM #2

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of successive lifts at Envirotech's Land Farm #2 for cells 8, 14 AND 20 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. Additionally, chloride concentrations cannot exceed 1000 mg/kg. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five (5) acres. Additionally, in compliance with our existing permit and Rule 36 each composite sample consisted of four (4) discrete samples.

The green cells (cells 8, 14 AND 20) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, total xylenes, and chlorides (see attached Laboratory Results). The BTEX and benzene results are reported in parts per billion (ug/Kg) and the TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

In regards to the parameters found in our permit, we are happy to provide the following cubic yard amounts and depth of the treatment zone for each five (5) acre cell up to this time:

Cell 8: 10694 cy (16")    Cell 14: 6893cy (10")    Cell 20: 4825 cy (7")

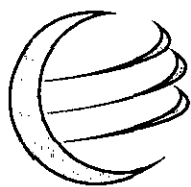
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

Respectfully submitted,  
Envirotech, Inc.

Greg Crabtree  
Environmental Manager  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)

Kendra Runung  
Waste Coordinator  
[krunung@envirotech-inc.com](mailto:krunung@envirotech-inc.com)



**envirotech**  
Analytical Laboratory

## Report Summary

Client: Envirotech

Chain of Custody Number: 15046

Samples Received: 01-04-13

Job Number: 03037-0006

Sample Number(s): 64054-64058

Project Name/Location: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1<sup>st</sup> Event)

Entire Report Reviewed By:

Date:

1/23/13

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



# envirotech

Analytical Laboratory

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

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 8	Date Reported:	01-09-13
Laboratory Number:	64056	Date Sampled:	01-03-13
Chain of Custody No:	15046	Date Received:	01-04-13
Sample Matrix:	Soil	Date Extracted:	01-07-13
Preservative:	Cool	Date Analyzed:	01-08-13
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.5	0.1
Total Petroleum Hydrocarbons	0.5	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	0108TCAL QA/QC	Date Reported:	01-09-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-13
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	01-08-13	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	01-08-13	9.9960E+02	1.0000E+03	0.04%	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	

Duplicate Conc: (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	3.0	4.0	33%	0 - 30%*
Diesel Range C10 - C28	118	124	4.9%	0 - 30%

Spike Conc: (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	3.0	250	232	91.6%	75 - 125%
Diesel Range C10 - C28	118	250	324	87.8%	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.

\*Note Percent difference outside acceptable limits

Comments: QA/QC for Samples 64044-64058.

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 8	Date Reported:	01-11-13
Laboratory Number:	64056	Date Sampled:	01-03-13
Chain of Custody:	15046	Date Received:	01-04-13
Sample Matrix:	Soil	Date Analyzed:	01-10-13
Preservative:	Cool	Date Extracted:	01-07-13
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
<b>Total BTEX</b>	<b>ND</b>	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	149 %
	1,4-difluorobenzene	134 %
	Bromochlorobenzene	79.5 %

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

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

**Comments: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**

Client:	N/A	Project #:	N/A
Sample ID:	0110BCAL QA/QC	Date Reported:	01-11-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-10-13
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
--	----------	----------	-------	---------------	-----------------

Benzene	9.4088E-06	9.4088E-06	0.000	ND	0.2
Toluene	9.4563E-06	9.4563E-06	0.000	ND	0.2
Ethylbenzene	1.2394E-05	1.2394E-05	0.000	ND	0.2
p,m-Xylene	1.0525E-05	1.0525E-05	0.000	ND	0.2
o-Xylene	1.2985E-05	1.2985E-05	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
-------------------------	--------	-----------	-------	--------------	--------------

Benzene	ND	ND	0.00	0 - 30%	10
Toluene	49.4	45.2	0.09	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	41.4	37.8	0.09	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
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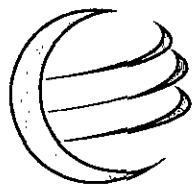
Benzene	ND	2500	2120	84.8	39 - 150
Toluene	49.4	2500	2280	89.4	46 - 148
Ethylbenzene	ND	2500	2110	84.4	32 - 160
p,m-Xylene	41.4	5000	3660	72.6	46 - 148
o-Xylene	ND	2500	1880	75.2	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 64044-64058.**



# envirotech

Analytical Laboratory

## Chloride

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 8	Date Reported:	01-16-13
Lab ID#:	64056	Date Sampled:	01-03-13
Sample Matrix:	Soil	Date Received:	01-10-13
Preservative:	Cool	Date Analyzed:	01-15-13
Condition:	Intact	Chain of Custody:	15046

Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride


283

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1st Event)**

# CHAIN OF CUSTODY RECORD

15046

Client: <b>Envirotech</b>			Project Name / Location: <b>Land Farm 2</b> <b>2013 Semi-Annual Treatment Zone Monitoring</b> <b>1st Quarters Closure Sampling</b>			ANALYSIS / PARAMETERS (List All) <b>1/18/13</b>															
Email results to: <b>Kendra Running</b>			Sampler Name: <b>K. Peine</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals (EPA 8210)	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact		
Client Phone No.:			Client No.: <b>03037-0006</b>																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH	BTEX	VOC	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					H <sub>2</sub> O <sub>2</sub>	HCl	Cod														
Cell 12	1-3-13	15:40	04054 P301011-01A	14oz Jar			X	X	X		X					X	X			X	X
Cell 7	1-3-13	15:49	04055 P301011-02A	14oz Jar			X	X	X		X					X		added		X	X
Cell 8	1-3-13	16:00	04056 P301011-03A	14oz Jar			X	X	X									per Kendra		X	X
Cell 13	1-3-13	16:10	04057 P301011-04A	14oz Jar			X	X	X		X					X		1/10/13		X	X
Cell 18	1-3-13	16:20	04058 P301011-05A	14oz Jar			X	X	X									AB		X	X
																		added 1/16/13 per Kendra			
Relinquished by: (Signature) <i>Kay Peine</i>					Date	Time	Received by: (Signature) <i>William Joe</i>										Date	Time			
Relinquished by: (Signature)							Received by: (Signature)														
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																					
																					
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com																					





## Report Summary

Client: Envirotech

Chain of Custody Number: 15045

Samples Received: 01-04-13

Job Number: 03037-0006

Sample Number(s): 64044-64053

Project Name/Location: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1<sup>st</sup> Event)

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to be "S. B.", is written over a horizontal line.

Date:

1/23/13

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 14	Date Reported:	01-09-13
Laboratory Number:	64046	Date Sampled:	01-03-13
Chain of Custody No:	15045	Date Received:	01-04-13
Sample Matrix:	Soil	Date Extracted:	01-07-13
Preservative:	Cool	Date Analyzed:	01-08-13
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	20.8	0.1
Total Petroleum Hydrocarbons	20.8	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 20	Date Reported:	01-09-13
Laboratory Number:	64052	Date Sampled:	01-03-13
Chain of Custody No:	15045	Date Received:	01-04-13
Sample Matrix:	Soil	Date Extracted:	01-07-13
Preservative:	Cool	Date Analyzed:	01-08-13
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	40.0	0.1
Total Petroleum Hydrocarbons	40.7	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**



# envirotech

Analytical Laboratory

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0108TCAL QA/QC	Date Reported:	01-09-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-13
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	01-08-13	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	01-08-13	9.9960E+02	1.0000E+03	0.04%	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	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	3.0	4.0	33%	0 - 30%*
Diesel Range C10 - C28	118	124	4.9%	0 - 30%

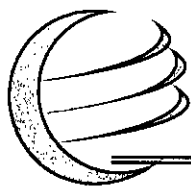
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	3.0	250	232	91.6%	75 - 125%
Diesel Range C10 - C28	118	250	324	87.8%	75 - 125%

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.

\*Note Percent difference outside acceptable limits

Comments: QA/QC for Samples 64044-64058.



# envirotech

Analytical Laboratory

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 14	Date Reported:	01-11-13
Laboratory Number:	64046	Date Sampled:	01-03-13
Chain of Custody:	15045	Date Received:	01-04-13
Sample Matrix:	Soil	Date Analyzed:	01-10-13
Preservative:	Cool	Date Extracted:	01-07-13
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95.5 %
	1,4-difluorobenzene	94.3 %
	Bromochlorobenzene	94.1 %

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

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

**Comments: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 20	Date Reported:	01-11-13
Laboratory Number:	64052	Date Sampled:	01-03-13
Chain of Custody:	15045	Date Received:	01-04-13
Sample Matrix:	Soil	Date Analyzed:	01-10-13
Preservative:	Cool	Date Extracted:	01-07-13
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
p,m-Xylene	ND	10.0
o-Xylene	ND	10.0
<b>Total BTEX</b>	<b>ND</b>	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	106 %
	1,4-difluorobenzene	135 %
	Bromochlorobenzene	86.7 %

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

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

**Comments: Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring (1st Event)**

Client:	N/A	Project #:	N/A
Sample ID:	0110BCAL QA/QC	Date Reported:	01-11-13
Laboratory Number:	64044	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-10-13
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
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Benzene	9.4088E-06	9.4088E-06	0.000	ND	0.2
Toluene	9.4563E-06	9.4563E-06	0.000	ND	0.2
Ethylbenzene	1.2394E-05	1.2394E-05	0.000	ND	0.2
p,m-Xylene	1.0525E-05	1.0525E-05	0.000	ND	0.2
o-Xylene	1.2985E-05	1.2985E-05	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
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Benzene	ND	ND	0.00	0 - 30%	10
Toluene	49.4	45.2	0.09	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	41.4	37.8	0.09	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
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Benzene	ND	2500	2120	84.8	39 - 150
Toluene	49.4	2500	2280	89.4	46 - 148
Ethylbenzene	ND	2500	2110	84.4	32 - 160
p,m-Xylene	41.4	5000	3660	72.6	46 - 148
o-Xylene	ND	2500	1880	75.2	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 64044-64058.**



# envirotech

Analytical Laboratory

## Chloride

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 14	Date Reported:	01-16-13
Lab ID#:	64046	Date Sampled:	01-03-13
Sample Matrix:	Soil	Date Received:	01-10-13
Preservative:	Cool	Date Analyzed:	01-15-13
Condition:	Intact	Chain of Custody:	15045

Parameter	Concentration (mg/Kg)
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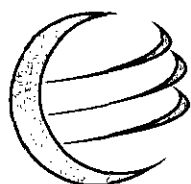
Total Chloride

136

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1st Event)**





# envirotech

Analytical Laboratory

## Chloride

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 20	Date Reported:	01-16-13
Lab ID#:	64052	Date Sampled:	01-03-13
Sample Matrix:	Soil	Date Received:	01-10-13
Preservative:	Cool	Date Analyzed:	01-15-13
Condition:	Intact	Chain of Custody:	15045

Parameter	Concentration (mg/Kg)
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Total Chloride

162

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.  
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Landfarm 2 2013 Semi-Annual Treatment Zone Monitoring  
(1st Event)**

# CHAIN OF CUSTODY RECORD

15045

Client: <b>Envirotech</b>			Project Name / Location: <b>Landfarm 2</b> <b>2013 Semi-Annual Treatment Zone Monitoring</b> <del>1st Annual Closure Sampling</del>			ANALYSIS / PARAMETERS (1st Event) <b>1/16/13</b>															
Email results to: <b>Kendra Running</b>			Sampler Name: <b>K. Peire</b>																		
Client Phone No.: _____			Client No.: <b>03037-0006</b>																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals + Zn	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
					HgCl <sub>2</sub>	HCl	CO														
Cell 15	1-3-13	14:12	G4044 P301010-01A	1 4oz Jar			X	X	X								X			X	X
Cell 10	1-3-13	14:18	G4045 P301010-02A	1 4oz Jar			X	X	X	X						X					
Cell 14	1-3-13	14:27	G4046 P301010-03A	1 4oz Jar			X	X	X												
Cell 9	1-3-13	14:36	G4047 P301010-04A	1 4oz Jar			X	X	X	X						X					
Cell 4	1-3-13	14:45	G4048 P301010-05A	1 4oz Jar			X	X	X	X						X					
Cell 6	1-3-13	14:57	G4049 P301010-06A	1 4oz Jar			X	X	X	X						X					
Cell 16	1-3-13	15:10	G4050 P301010-07A	1 4oz Jar			X	X	X	X						X					
Cell 19	1-3-13	15:18	G4051 P301010-08A	1 4oz Jar			X	X	X	X						X					
Cell 20	1-3-13	15:25	G4052 P301010-09A	1 4oz Jar			X	X	X												
Cell 17	1-3-13	15:33	G4053 P301010-10A	1 4oz Jar			X	X	X	X						X					
Relinquished by: (Signature) <i>K. Peire</i>					Date	Time	Received by: (Signature) <i>Miriam Jol</i>										Date	Time			
					1-3-13	17:00											1/4/13	7:40			
Relinquished by: (Signature)							Received by: (Signature)														
Sample Matrix																					
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																					

☐ Sample(s) dropped off after hours to secure drop off area.



5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

# ENVIROTECH Inc.

5798 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. \_\_\_\_\_  
PAGE No. \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Landfarm 2

DATE STARTED: 1-3-13

SOURCE LOCATION: Cell # 8 Closure

DATE FINISHED: \_\_\_\_\_

SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: K. Peine

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

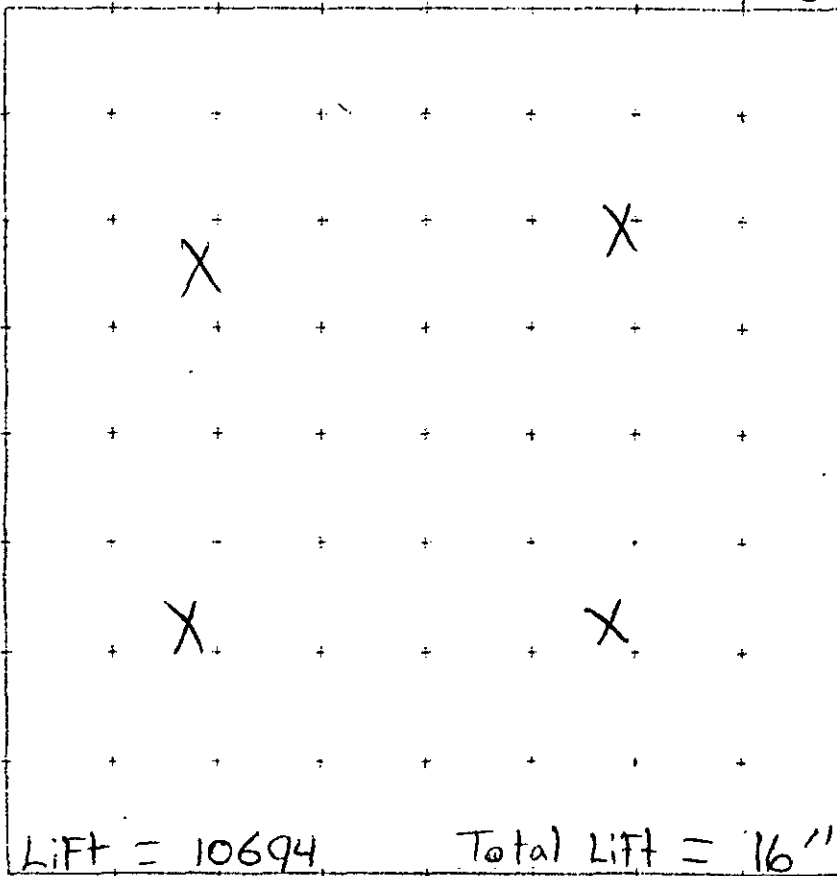
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX. \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMDCD:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 Acre Cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS ppm
8	8015	
8	8031	
8	Chlor	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

Lift = 10694

Total Lift = 16"

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C. #: \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Land Farm 2  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: Cell #14 Closure  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

DATE STARTED: 1-3-13  
DATE FINISHED: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: K. Peine

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_  
DIMENSIONS: \_\_\_\_\_  
VISIBLE OBSERVATIONS: \_\_\_\_\_  
SAMPLING PLAN: \_\_\_\_\_

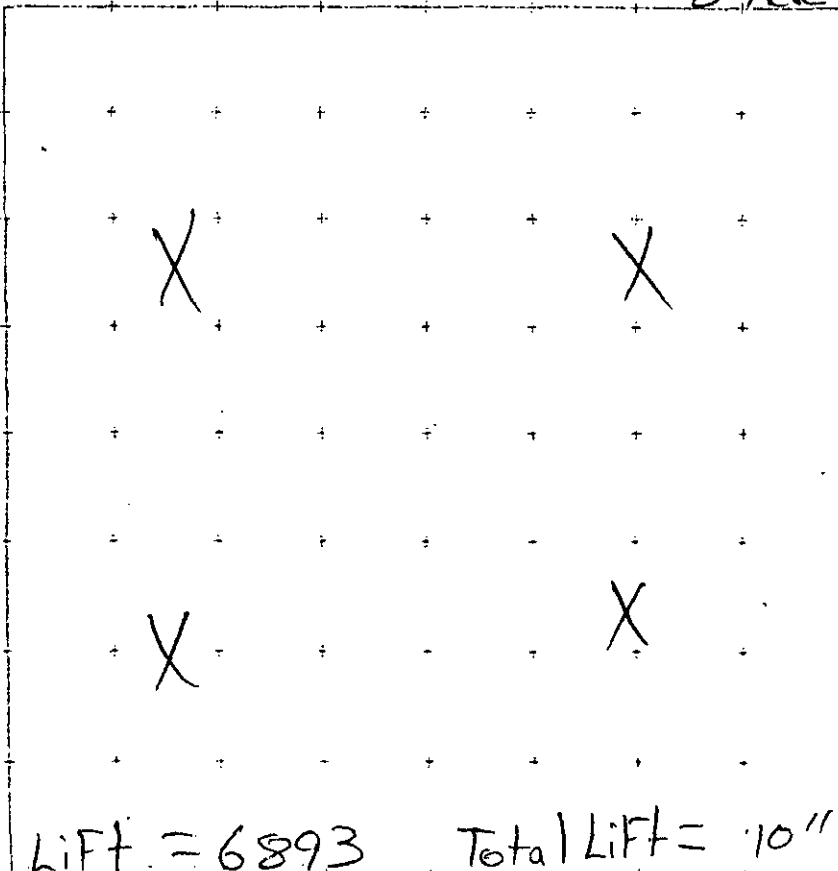
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX. \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER:  
MAX TPH PER NMDCD:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 Acres/Cell



## OVN RESULTS

SAMPLE ID	FIELD HEADSPACE P/O (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS ppm
14	8015	
14	8021	
14	Chlor	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

LIFT = 6893 Total Lift = 10"

# ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401  
(505) 632-0615

PIT No: \_\_\_\_\_  
C.O.C # \_\_\_\_\_

## FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOS No: \_\_\_\_\_  
PAGE No: \_\_\_\_\_ of \_\_\_\_\_

FACILITY LOCATION: Landfarm 2  
SOURCE LOCATION: \_\_\_\_\_  
SOURCE LOCATION: Cell # 20 Closure  
SOURCE LOCATION: \_\_\_\_\_  
FACILITY CLASSIFICATION: \_\_\_\_\_ PIT TYPE: \_\_\_\_\_

DATE STARTED: 1-3-13  
DATE FINISHED: \_\_\_\_\_

ENVIRONMENTAL  
SPECIALIST: K. Peire

SOIL REMEDIATION: QUANTITY: \_\_\_\_\_ # OF COMP. SAMPLES: \_\_\_\_\_

DIMENSIONS: \_\_\_\_\_

VISIBLE OBSERVATIONS: \_\_\_\_\_

SAMPLING PLAN: \_\_\_\_\_

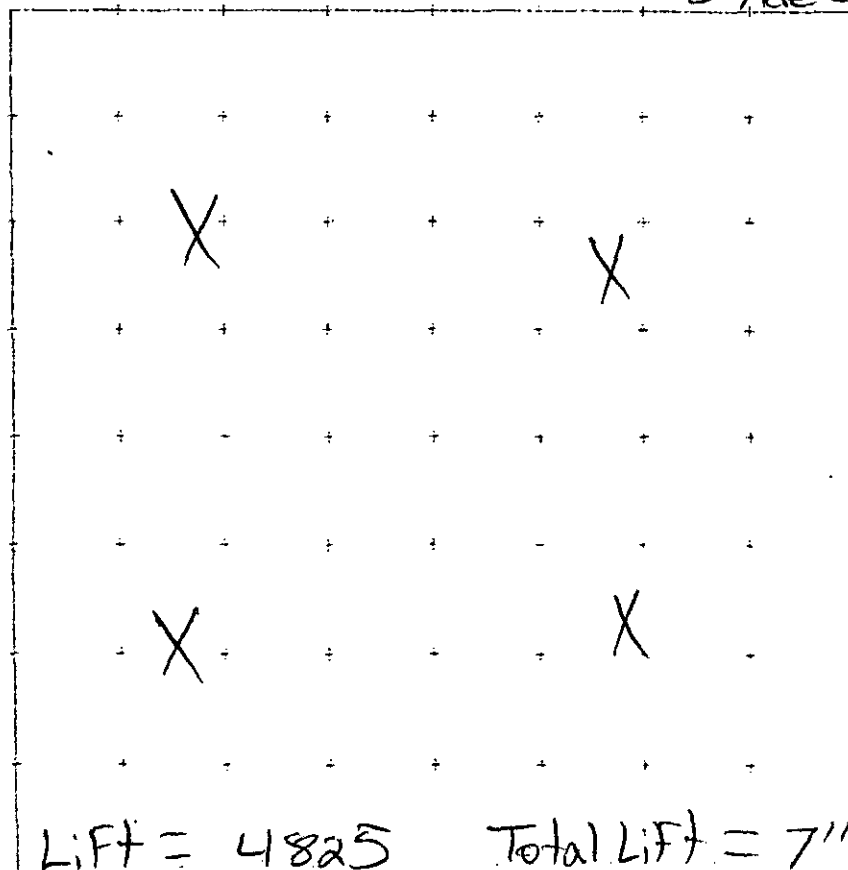
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX. \_\_\_\_\_ YARDS \_\_\_\_\_ FROM WELLHEAD.

DEPTH TO GROUNDWATER:  
NEAREST WATER SOURCE/TYPE:  
NEAREST SURFACE WATER  
MAX TPH PER NMDCD:

No. OF 5-POINT  
COMPOSITE SAMPLES:  
YARDAGE--#  
0-200=1  
201-400=2  
401-1000=3  
>1000=5

## FACILITY DIAGRAM

GRID SCALE: 5 Acre Cell



## OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

## LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS (ppm)
20	8015	
20	8021	
20	CHLOR	

NORTH

WELLHEAD

SURFACE  
FLOW DIR.

ESTIMATED  
GROUNDWATER  
FLOW DIR.

LIFT = 4825 Total Lift = 7"

