NM1 - ____11 ___

APPROVALS

YEAR(S):

2013 - 2014

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 <u>brad.a.jones@state.nm.us</u>.

Sincerely,

Brad A. Jones Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd



March 19, 2014

REGENCE) COD

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 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.

Greg Crabtred Environmental Manager gcrabtree@envirotech-inc.com

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





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

Date: 3/21/14

Entire Report Reviewed By:

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	Project Name:	Landfarm 2 & 2-5 Closures	
5796 US HWY 64	Project Number:	Landfarm OH	Reported:
Farmington NM, 87401	Project Manager:	Greg Crabtree	21-Mar-14 08:50

Analyical 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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laboratory Aenvirotech-inc.com

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



Envirotech 5796 US HWY 64 Farmington NM, 87401	Project	Name: Number: Manager:	Land	lfarm 2 & 2- lfarm OH crabtree	5 Closures			Reported: 21-Mar-14 08	
			Cell 28 57-02 (So	olid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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	
Nonhalogenated Organics by 8015									
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	
Cation/Anion Analysis									
Chloride	45.4	9.98	mg/kg	1	1412022	03/19/14	03/19/14	EPA 300.0	

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

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1412017 - Purge and Trap EPA 5030A										
Blank (1412017-BLK1)				Prepared: 1	8-Mar-14	Analyzed: 2	20-Mar-14			
Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
,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		и	50.0		94.6	80-120			
Duplicate (1412017-DUP1)	Sou	rce: P403051-	01	Prepared: 1	8-Mar-14	Analyzed:	20-Mar-14			
Benzene	ND	0.001	mg/kg		ND				30	
Coluene	ND	0.001	**		ND				30	
Ethylbenzene	ND	0.001	19		ND				30	
o,m-Xylene	ND	0.001	*		ND				30	
o-Xylene	ND	0.001	59		ND				30	
Surrogate: 1,3-Dichlorobenzene	48.6	American a service	ug/L	50.0		97.3	80-120			
Surrogate: Bromochlorobe n zene	50.5		"	50.0		101	80-120			
Matrix Spike (1412017-MS1)	Sou	rce: P403051-	01	Prepared: 1	8-Mar-14	Analyzed: 2	20-Mar-14			
Benzene	53.7		ug/L	50.0	ND	107	39-150			
Foluene	53.7			50.0	ND	107	46-148			
Ethylbenzene	53.4		**	50.0	ND	107	32-160			
,m-Xylene	105		n	100	ND	105	46-148			
-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-ticcom

 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301
 Ph (970) 259-0615
 Fr (800) 362-1879
 laberatory sensitivech-inc.com



Envirotech		ect Name:	_	andfarm 2 &	2-5 Closure						
5796 US HWY 64 Farmington NM, 87401		ject Number: ject Manager:		Landfarm OH Greg Crabtree					Reported: 21-Mar-14 08:50		
	Nonhalog	enated Org	anics b	y 8015 - Qu	uality Co	ntrol					
	E	nvirotech A	Analyti	cal Labor	atory						
		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

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	Project Name:	Landfarm 2 & 2-5 Closures	
5796 US HWY 64	Project Number:	Landfarm OH	Reported:
Farmington NM, 87401	Project Manager:	Greg Crabtree	21-Mar-14 08:50

Nonhalogenated Organics by 8015 - Quality Control

Envirotech	Analytica	l Laboratory
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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1412017 - Purge and Trap EPA 5030A										
Blank (1412017-BLK1)				Prepared: 1	8-Mar-14	Analyzed: 2	20-Mar-14			
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg							
Duplicate (1412017-DUP1)	Sourc	e: P403051-	01	Prepared: 1	8-Mar-14	Analyzed: 2	20-Mar-14			
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg		ND				30	
Matrix Spike (1412017-MS1)	Sourc	e: P403051-	01	Prepared: 1	8-Mar-14	Analyzed: 2	20-Mar-14			
Gasoline Range Organics (C6-C10)	0.58		mg/L	0.450	ND	129	75-125			SPK1

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

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1412022 - Anion Extraction EPA 300.0										
Blank (1412022-BLK1)				Prepared &	Analyzed:	19-Mar-14	ł			
Chloride	ND	9.94	mg/kg							
LCS (1412022-BS1)				Prepared &	Analyzed:	19-Mar-14	Ļ			
Chloride	484	9.94	mg/kg	497		97.5	90-110			
Matrix Spike (1412022-MS1)	Sour	ce: P403054-	01	Prepared & Analyzed: 19-Mar-14			Ļ			
Chloride	506	9.95	mg/kg	497	17.7	98.1	80-120			
Matrix Spike Dup (1412022-MSD1)	Sour	ce: 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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E	Envirotech	Project Name:	Landfarm 2 & 2-5 Closures	
5	796 US HWY 64	Project Number:	Landfarm OH	Reported:
F	armington NM, 87401	Project Manager:	Greg Crabtree	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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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, Inc. Permit NM1-011 July 30, 2014 Page 2 of 2

• 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.

Sincerely

Brad A. Jones Environmental Engineer

BAJ/baj

Attachment: Facility Map (dated January 11, 2013)

cc: OCD District III Office, Aztec





RECEIVED COD 2014 JUL 29 P 1: 25

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

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>





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

Date: 3/27/14

Entire Report Reviewed By:

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.

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

Analyical 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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5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865 Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr (800) 362-1879

Page 2 of 14



Envirotech 5796 US HWY 64 Farmington NM, 87401	Project	: Name: : Number: : Manager:	Land	farm 2 Closs farm OH Crabtree	1res			Reported: 27-Mar-14 11	:09
			Cell 11 58-04 (So	olid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Велzепе	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	NĎ	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: Bromochlorohenzene		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									<u> </u>
Chloride	237	9.90	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	5	Number: Manager:	Land Greg C ell 16	Ifarm 2 Closs Ifarm OH Crabtree	1165			Reported: 27-Mar-14 11	:09
			58-05 (Se	olid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	EP.4 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	



 Envirotech	Project Name:	Landfarm 2 Closures	
5796 US HWY 64	Project Number:	Landfarm OH	Reported:
Farmington NM, 87401	Project Manager:	Greg Crabtree	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
Batch 1412017 - Purge and Trap EPA 5030A										
Blank (1412017-BLK1)				Prepared: 1	8-Mar-14	Analyzed:	20-Mar-14			
Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	4							
Ethylbenzene	ND	0.001	**							
o,m-Xylene	ND	0,001	"							
p-Xylene	ND	0.001	N							
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		n	50.0		94.6	8 0 -120			
Duplicate (1412017-DUP1)	Sou	irce: P403051-	•01	Prepared:	8-Mar-14	Analyzed:	20-Mar-14			
Benzene	ND	0.001	mg/kg		ND				30	
loluene	ND	0.001	17		ND				30	
Ethylbenzene	ND	0.001			ND				3 0	
p,m-Xylene	ND	0,001	"		ND				30	
0-Xylene	ND	0.001	۳		ND				30	
Surrogate: 1,3-Dichlorobenzene	48.6		ug L	50.0		97.3	80-120			
Surrogate: Bromochlorobenzene	50.5		11	50.0		101	80-120			
Matrix Spike (1412017-MS1)	Sou	irce: P403051-	01	Prepared: 1	8-Mar-14	Analyzed:	20-Mar-14			
Benzene	53.7		ug/1.	50.0	ND	107	39-150			
Toluene	53.7		4	50.0	ND	107	46-148			
Ethylbenzene	53.4		"	50.0	ND	107	32-160			
p.m-Xylene	105		4	100	ND	105	46-148			
≻Xylene	52.6			50.0	ND	105	46-148			
Surrogate: 1,3-Dichlorobenzene	52.5		н	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.1		"	50.0		106	80-120			

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Envirotech	Project Name:	Landfarm 2 Closures	
5796 US HWY 64	Project Number:	Landfarm OH	Reported:
Farmington NM, 87401	Project Manager:	Greg Crabtree	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 1412016 - DRO Extraction EPA 3550C										
Blank (1412016-BLK1)				Prepared:	8-Mar-14	Analyzed:	19-Mar-14			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		19 11 11 10 10 10 10 10 10 10 10 10 10 10	••••••••	n han Madhidan Ay Ar - rad Miriak rad 1994 -			
Duplicate (1412016-DUP1)	Sour	e: P403051-	01	Prepared:	8-Mar-14	Analyzed:	19-Mar-14			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1412016-MS1)	Sour	e: P403051-	01	Prepared: 1	8-Mar-14	Analyzed:	19-Mar-14			
Diesel Range Organics (C10-C28)	200	ANN INCOMPANY INCOMPANY INCOMPANY	mg/I.	250	ND	79.9	75-125			

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

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1412017 - Purge and Trap EPA	5030A									
Blank (1412017-BLK1)				Prepared: 1	18-Mar-14	Analyzed:	20-Mar-14			
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg							
Duplicate (1412017-DUP1)	Sour	ce: P403051-	·01	Prepared: 1	8-Mar-14	Analyzed:	20-Mar-14			
Gasoline Range Organics (C6-C10)	ND	0.10	ing/kg		ND				30	
Matrix Spike (1412017-MS1)	Sour	ce: P403051-	-01	Prepared: 1	8-Mar-14	Analyzed	20-Mar-14			
Gasoline Range Organics (C6-C10)	0.58		mg/I.	0.450	ND	129	75-125			SPK1

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

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

			•							
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1412040 - Anion Extraction EPA 300.0										
Blank (1412040-BLK1)				Prepared &	Analyzed:	21-Mar-14	4			
Chloride	ND	9.89	mg/kg							
LCS (1412040-BS1)				Prepared &	Analyzed:	21-Mar-14	ļ			
Chloride	490	9.95	mg/kg	498		98.5	90-110			
Matrix Spike (1412040-MS1)	Sour	ce: P 403058-	01	Prepared &	Analyzed:	21-Mar-14	L			
Chloride	660	9.92	nıg/kg	496	157	101	80-120			
Matrix Spike Dup (1412040-MSD1)	Sour	ce: P403058-	01	Prepared &	Analyzed	21-Mar-14	ļ.			
Chloride	658	9.94	mg/kg	497	157	101	80-120	0 326	20	

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

Notes and Definitions

SPKI	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 13 of 14

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		5796	US HWY		H Inc.	87401	РІТ No: С.О.С #:
FIELD	REPORT:		EDIAT	ION F	ACILITY		JOB No: N/A PAGE No: of
ACILITY LOCATION:							TE STARTED: 3/18/14
OURCE LOCATION: OURCE LOCATION: ACILITY CLASSIFICATIO	DN:			P		EN SP	VIRONMENTAL GUE
SOIL REMEDIATION VISIBLE SAMPLING	DIMENSI	ONS: 5	None.		# 11		COMP. SAMPLES
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			5796	US HWY.	64. FAR	H Inc.	87401		T No:
FIELI	D REP	ORT:		EDIAT	****	ACILITY		JOB PAGE	No: 1 of 1
URCE LOCATION	1:					1116		DATE STAR	TED: 3/18 HED: 3/18
URCE LOCATION URCE LOCATION CILITY CLASSIFIC	I:				P	T TYPE:		ENVIRONME	NTAL GWC
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No. Compo Y		WATER: NMOCD: DINT MPLES: # =1 =2 3							
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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



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 <u>brad.a.jones@state.nm.us</u>.

Sincerely,

Brad A. Jones Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd



January 28, 2014

RECEIVEN COD

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 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 <u>gcrabtree@envirotech-inc.com</u>

Kendra Runung

Waste Coordinator <u>krunung@envirotech-inc.com</u>





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

Date: 1/21/14

Entire Report Reviewed By:

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.

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

Analyical 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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Envirotech	Project Name:		LF 2	LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt					
5796 US HWY 64	Project	t Number:				Reported:			
Farmington NM, 87401	Project	t Manager:	Eric	Liese				21-Jan-14 15	:01
		(Cell 49						
		P4010	35-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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	
Nonhalogenated Organics by 8015									
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∕ k g	1	1403021	01/16/14	01/17/14	EPA 8015D	
Cation/Anion Analysis									
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	
5796 US HWY 64	Project Number:		Reported:
Farmington NM, 87401	Project Manager:	Eric Liese	21-Jan-14 15:01

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										
Blank (1403020-BLK1)				Prepared: 1	6-Jan-14 A	Analyzed: 1	7-Jan-14			_
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	н							
Ethylbenzene	ND	0.05	•							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	μ							
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			
Duplicate (1403020-DUP1)	Sou	rce: P401035-	01	Prepared: 1	6-Jan-14 A	Analyzed: 1	7-Jan-14			
Benzene	ND	0.05	mg/kg		ND				30	
Foluene	ND	0.05			ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
o,m-Xylene	ND	0.05	и		ND				30	
p-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			
Matrix Spike (1403020-MS1)	Sou	rce: P401035-	01	Prepared: 1	6-Jan-14 A	Analyzed: 1	7-Jan-14			
Benzene	48.5		ug/L	50.0	ND	97.1	39-150			
Foluene	48.9			50.0	ND	97.7	46-148			
Ethylbenzene	48.6		*	50.0	ND	97.1	32-160			
n,m-Xylene	97.6			100	ND	97.6	46-148			
o-Xylene	49.8			50.0	ND	99. 7	46-148			
urrogate: 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	· · · · · ·
5796 US HWY 64	Project Number:		Reported:
Farmington NM, 87401	Project Manager:	Eric Liese	21-Jan-14 15:01

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										
Blank (1403020-BLK1)				Prepared: 1	6-Jan-14 A	Analyzed: 1	7-Jan-14			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		-					
Duplicate (1403020-DUP1)	Sourc	e: P401035-	01	Prepared: 1	6-Jan-14 /	Analyzed: 1	7-Jan-14			
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg		ND				30	
Matrix Spike (1403020-MS1)	Sourc	e: P401035-	01	Prepared: 1	6-Jan-14 A	Analyzed: 1	7-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	
5796 US HWY 64	Project Number:		Reported:
Farmington NM, 87401	Project Manager:	Eric Liese	21-Jan-14 15:01

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 1403021 - DRO Extraction EPA 3550C				_						
Blank (1403021-BLK1)				Prepared: 1	6-Jan-14 /	Analyzed: 1	7-Jan-14			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg			110.54				· · · ·
Duplicate (1403021-DUP1)	Sour	e: P401035-	01	Prepared: 1	6-Jan-14 /	Analyzed: 1	7-Jan-14			
Diesel Range Organics (C10-C28)	145	30.0	mg/kg		158			8.78	30	
Matrix Spike (1403021-MS1)	Sourc	e: P401035-	01	Prepared: 1	6-Jan-14 /	Analyzed: 1	7-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	
5796 US HWY 64	Project Number:		Reported:
Farmington NM, 87401	Project Manager:	Eric Liese	21-Jan-14 15:01

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyta	Donult	Reporting	Unite	Spike	Source	%/DCC	%REC	BBD	RPD Limit	Matas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1403018 - Anion Extraction EPA 300.0										
Blank (1403018-BLK1)				Prepared &	Analyzed:	16-Jan-14				
Chloride	ND	9.89	mg/kg							
LCS (1403018-BS1)				Prepared &	Analyzed:	16-Jan-14				
Chloride	495	9,99	mg/kg	500		99.1	90-110			
Matrix Spike (1403018-MS1)	Sour	ce: P401035-	01	Prepared &	Analyzed:	16-Jan-14				
Chloride	962	10.0	mg/kg	500	438	105	80-120			
Matrix Spike Dup (1403018-MSD1)	Sour	ce: P 401035-	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	Project Name:	LF 2-5 2014 Semi-Ann. Tmt Zone Monitoring 1st Evt	
5796 US HWY 64	Project Number:		Reported:
Farmington NM, 87401	Project Manager:	Eric Liese	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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$\frac{1}{2} = \frac{1}{3:35} P_{10}(0.35-10) = \frac{1}{100} P_{11} = \frac{1}{100} $	PHOIU35-10
Received by: (Signature)	C envirol technology (Signature) Analiviical Laboratory
	D





RECEIVED OCD

January 28, 2014

2010 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.

Greg Crabtre Environmental Manager gcrabtree@envirotech-inc.com

Kendra Rununa

Waste Coordinator <u>krunung@envirotech-inc.com</u>



September 11, 2013

RECENTE COD 2013 517 12 A 13 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 meet 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 factions 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.

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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 Crabtilee Environmental Manager gcrabtree@envirotech-inc.com

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>

5796 US Highway 64, Farmington, NM 87401





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 (1st Event)

Date: 1/23/13 Entire Report Reviewed By:

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.

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EPA METHOD 8015 Modified Nonhaiogenated 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)



Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	QA/QC 0108TCAL QA 64044 Methylene Chl N/A N/A		Project #: Date Reported Date Sampled Date Received Date Analyzed Analysis Requ	: : :	N/A 01-09-13 N/A N/A 01-08-13 TPH
Gasoline Range C5 - C10 Diesel Range C10 - C28	I-Cal Date 01-08-13 01-08-13	I-Cal RF: 9.9960E+02 9.9960E+02	C-Cal RF: 1.0000E+03 1.0000E+03	% Difference 0.04% 0.04%	Accept. Range 0 - 15% 0 - 15%
Blank Conc. (mg/L - mg/l	(g)	Concentration		Detection Limit	:
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbon	S	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 #:	03037-00	06
Sample ID:	Cell 7	Date Reporte	d: 01-11-13	
Laboratory Number:	64055	Date Sample	d: 01-03-13	
Chain of Custody:	15046	Date Receive	d: 01-04-13	
Sample Matrix:	Soil	Date Analyze	d: 01-10-13	
Preservative:	Cool	Date Extracte	d: 01-07-13	
Condition:	Intact	Analysis Req	uested: BTEX	
		Dilution:	50	
			Det.	
		Concentration	Limit	
Parameter		(ug/Kg)	(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 #:		VA	
Sample ID:	0110BCAL QA/QC		Date Reported:		1-11-13	
Laboratory Number:	64044		Date Sampled:	-	VA	
Sample Matrix:	Soll		Date Received:	N/A		
Preservative:	N/A		Date Analyzed:	-	1-10-13	
Condition:	N/A		Analysis:		TEX	
			Dilution:	5	D	
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.	
Detection Limits (ug/L)		Accept. Range 0-15%	6	Conc	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	
Тоцепе	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

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

Comments: QA/QC for Samples 64044-64058.



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
		Det.	
	Concentration	Limit	
Parameter	(mg/Kg)	(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 Emmision Spectorscopy, SW-846, USEPA, December 1996.

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



TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					
Client:		QA/QC		Project #:			N/A
Sample ID:		01-24-TM C	A/QC	Date Report	ed:		01-28-13
Laboratory Numbe	er:	64045		Date Sampl	ed:		N/A
Sample Matrix:		Soil		Date Receiv	ved:		N/A
Analysis Requeste	ed:	Total Metals	;	Date Analyz	æd:		01-24-13
Condition:		N/A		Date Digest	ed:		01 - 21-13
				Dilution			100
Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	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		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/Kg)		Added		Sample	Recovery		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%
Sliver		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 Emmision Spectorscopy, 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 EPA METHOD 418.1 Analytical Laboratory

Project #: 03037-0006 Client: Envirotech Sample ID: Cell 7 Date Reported: 01-21-13 Laboratory Number: 64055 Date Sampled: 01-03-13 15046 01-16-13 Chain of Custody No: Date Received: Soil Date Extracted: 01-16-13 Sample Matrix: 01-16-13 Preservative: Cool Date Analyzed: **TPH-418.1** Condition: Intact Analysis Needed: Det. Concentration Limit (mg/kg) Parameter (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)

Client: Sample ID: Laboratory Numbe Sample Matrix: Preservative: Condition:	r:	QA/QC QA/QC 01-16-TPH.QA Freon-113 N/A N/A	/QC 64045	Project #: Date Reported Date Sampled Date Analyzed Date Extracted Analysis Need	l: C l: N l: C d: C	VA)1-21-13 NA)1-16-13)1-16-13 (FPH
Calibration	I-Cal Date 11-15-12	C-Cal Date 01-16-13	I-Cal RF: 1,680	C-Cal RF: 1,540	% Difference 8.3%	Accept. Range +/- 10%
Blank Conc. (mg/Kg) TPH			Concentration ND		Detection Lin 13.4	sit
Duplicate Cor TPH	nc. (mg/Kg)		Sample 15,500	Duplicate 14,100	% Difference 9.0%	Accept. Range +/- 30%
Spike Conc. (TPH	mg/Kg)	Sample 15,500	Spike Added 2,000	Spike Result 16,800	% Recovery 96.0%	Accept Range 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

5796 US Highway 64, Farmington, NM 87401 Three Springs - 65 Mercado Street. Suite 115, Durango, CO 81301



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)

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	Client:	Email result	Client Phone No.:	San	Cel	<u>ل</u>	5 C	Ce	S					Relinquished by: (Signature)		Relinquished by: (Signature)	Soll Solid Solid	□ 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: 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

Date: 7/24/13

Entire Report Reviewed By:

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.

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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

Analyical 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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Envirotech 5796 US HWY 64 Farmington NM, 87401	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event03037-0006Reported:Kendra Runung24-Jul-13 16:54								
			Cell 7 53-03 (Sol	lid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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	
Surrogate: Bromochlorobenzene		86.1 %	80-	120	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		89.0 %	80-	120	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
Surrogate: Fluorobenzene		89.1 %	80-	120	1329016	18-Jul-13	18-Jul-13	EPA 8021B	
Nonhalogenated Organics by 8015									
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	
Total Metals by 6010									
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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Envirotech 5796 US HWY 64 Farmington NM, 87401	Project	Project Name:LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd EventProject Number:03037-0006Project Manager:Kendra Runung							Reported: 24-Jul-13 16:54		
			Cell 7 53-03 (So	lid)							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
<u>Total Petroleum Hydrocarbons by 418.1</u> Total Petroleum Hydrocarbons	2180	20.0	mg/kg	1	1329025	18-Jul-13	18-Jul-13	EPA 418.1			
<u>Cation/Anion Analysis</u> 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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	24-Jul-13 16:54

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										
Blank (1329016-BLK1)				Prepared: 1	7-Jul-13 A	Analyzed: 1	8-Jul-13			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	**							
p-Xylene	ND	0.05	**							
Total Xylenes	ND	0.05								
Fotal 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			
Duplicate (1329016-DUP1)	Sou	rce: P307046-	01	Prepared: 1	7-Jul-13 A	Analyzed: 13	8-Jul-13			
Benzene	ND	0.05	mg/kg		ND				30	
Foluene	ND	0.05			ND				30	
Ethylbenzene	ND	0.05			ND				30	
p,m-Xylene	ND	0.05			ND				30	
p-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			
Matrix Spike (1329016-MS1)	Sou	rce: P307046-	01	Prepared: 1	7-Jul-13 A	Analyzed: 13	8-Jul-13			
Benzene	48.3		ug/L	50.0	0.52	95.5	39-150			
foluene	48.3			50.0	0.68	95.3	46-148			
Ethylbenzene	48.2			50.0	0.35	95.8	32-160			
o,m-Xylene	96.5		u	100	0.92	95.6	46-148			
-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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	24-Jul-13 16:54

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1329024 - GRO/DRO Extractio	on 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)	Sour	ce: 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)	Sour	ce: 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	н	263	ND	101	75-125			

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5796 US Highway 64, Farmington, NM 87401



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

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
Batch 1330012 - Metal Solid Digestion EPA 3051A										

Blank (1330012-BLK1)				Prepared &	Analyzed:	24-Jul-13				
Arscnic	ND	1.00	mg/kg			and a fire of the				
Barium	ND	5.00	**							
Cadmium	ND	1.00	"							
Chromium	ND	1.00	n							
Соррег	ND	1.00	u.							
Iron	2.25	1.00	"							
Lead	ND	1.00								
Manganese	ND	1.00	ч							
Mercury	ND	1.00	"							
Selenium	ND	1.00	*1							
Silver	ND	1.00	и							
Zinc	2.57	1.00	12							
Duplicate (1330012-DUP1)	Sourc	e: P307048-	01	Prepared &	z 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	н		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	85		6.32			1.75	30	
Manganese	218	0.95	"		238			8.64	30	
Mercury	ND	0.95	*1		ND				30	
Selenium	1.04	0.95	•		ND				30	
Silver	ND	0,95			ND				30	
Zine	44.6	0,95			48.1			7.63	30	
Matrix Spike (1330012-MS1)	Source	e: P307048-	01	Prepared &	Analyzed:	24-Jul-13				
Arsenic	0.25		mg/L	0.250	0.03	87.0	75-125			
Barium	8.77		ч	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	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

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
Batch 1330012 - Metal Solid Digestio	n EPA 3051A									
Matrix Spike (1330012-MS1)	Sourc	e: P307048-	01	Prepared &	Analyzed:	24-Jul-13				
Silver	0.10		mg/L	0,100	-0.001	99.1	75-125			

1.04

0.500

0.48

75-125

112

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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

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory							
	Description	0	0.				

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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 5796 US HWY 64 Farmington NM, 87401	Proj	ject Name: ject Number: ject Manager:	0.	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Even 03037-0006 Kendra Runung					Reported: 24-Jul-13 16:54		
Cation/Anion Analysis - Quality Control Envirotech Analytical Laboratory											
		Reporting	j •=	Spike	Source		%REC		RPD		
Analyte	Rcsult	Limit	Units	Level	Result	%REC	Limits	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		01	Prepared & Analyzed: 18-Jul-13							
Chloride	451	10.0	mg/kg		443			1.97	30		

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E	nvirotech	Project Name:	LF 2 2013 Semi-Ann. Tmt Zone Monitoring 2nd Event	
5	796 US HWY 64	Project Number:	03037-0006	Reported:
F	armington NM, 87401	Project Manager:	Kendra Runung	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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Page 20 of 21
Anuma Sampler Name Date Client No.: Time Client No.: Client No.: Date Client No.: Time Client No.: Client No.: Cli
X X TPH (418.1)



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 <u>brad.a.jones@state.nm.us</u>.

Sincerely,

Brad A. Jones

Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



December 10, 2013

RECEIVED OCD 2013 DEC 11 P 1: 34

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 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

Kendra Runung

Waste Coordinator krunung@envirotech-inc.com





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

Date: 12/6/13

Entire Report Reviewed By:

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.

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Page 1 of 11



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

Analyical 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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Page 2 of 11



Envirotech 5796 US HWY 64 Farmington NM, 87401	Projec	et Name: et Number: et Manager:	ber: 03037-0006			Reported: 06-Dec-13 17:06			
	olid)								
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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		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	
Nonhalogenated Organics by 8015									
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	
Cation/Anion Analysis									
Chloride	186	9.92	mg/kg	1	1349002	12/02/13	12/02/13	EPA 300.0	



Envirotech	Project Name:	Landfarm 2 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	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
Batch 1349009 - Purge and Trap EPA 5030A										
Blank (1349009-BLK1)				Prepared: 0	3-Dec-13	Analyzed: (05-Dec-13			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	м							
o,m-Xylene	ND	0.05	4							
o-Xylene	ND	0.05	6							
Fotal Xylenes	ND	0.05	ч							
Total BTEX	ND	0.05	*							
Surrogate: 1,3-Dichlorobenzene	52.3		ug L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	56.1		n	.50.0		112	80-120			
Duplicate (1349009-DUP1)	Sou	rce: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: (05-Dec-13			
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05			ND				30	
Ethylbenzene	ND	0.05	н		ND				30	
o,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)	Sou	rce: P311076-	01	Prepared: 0	3-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		ч	50.0	ND	95.1	32-160			
o,m-Xylene	94.5			100	ND	94.5	46-148			
p-Xylene	47.6		14	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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	06-Dec-13 17:06

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1349008 - DRO Extraction EPA 3550C										
Blank (1349008-BLK1)				Prepared: 0	3-Dec-13	Analyzed: (5-Dec-13			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1349008-DUP1)	Sour	ce: P311074-	01	Prepared &	Analyzed:	03-Dec-13				
Diesel Range Organies (C10-C28)	1540	30.0	mg/kg		1690			8.99	30	
Matrix Spike (1349008-MS1)	Sour	ce: P311074-	01	Prepared &	Analyzed:	03-Dec-13				
Diesel Range Organies (C10-C28)	1730		mg/L	250	1610	46.6	75-125			SPK1

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

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1349009 - Purge and Trap EPA 5030A										
Blank (1349009-BLK1)				Prepared: 0	3-Dec-13	Analyzed: (5-Dec-13			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1349009-DUP1)	Sourc	e: P311076-0	01	Prepared: 0	3-Dec-13	Analyzed: (5-Dec-13			
Gasoline Range Organics (C6-C10)	ND	4,99	mg/kg		ND				30	
Matrix Spike (1349009-MS1)	Sourc	e: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: (5-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: Project Number: Project Manager:	Landfarm 2 Closure Sampling 03037-0006 Kendra Runung	Reported: 06-Dec-13 17:06			
Cation/Anion Analysis - Quality Control							

Envirotech Analytical Laboratory

			•		v					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Лиатус	Kesuk				- itesuit	/orce	Linus	N D	1.11111	Trotes
Batch 1349002 - Anion Extraction EPA 300.0					-					
Blank (1349002-BLK1)				Prepared &	Analyzed:	02-Dec-13				
Chloride	ND	9.92	mg/kg							
LCS (1349002-BS1)				Prepared &	Analyzed:	02-Dec-13				
Chloride	504	9,99	mg/kg	500		101	90-110			
Matrix Spike (1349002-MS1)	Sour	ce: P312002-	01	Prepared & Analyzed: 02-Dec-13						
Chloride	494	9.94	mg/kg	497	ND	99.4	80-120			
Matrix Spike Dup (1349002-MSD1)	Sour	ce: 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	Project Name:	Landfarm 2 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	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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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 <u>brad.a.jones@state.nm.us</u>.

Sincerely

Brad A. Jones Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



December 9, 2013

RECEIVED OCD 2013 DEC 11 P 1: 3-

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 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

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.

Corners region without interruption.

Greg Crabtre Environmental Manager gcrabtree@envirotech-inc.com

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>

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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

Date: 12/6/13

Entire Report Reviewed By:

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.

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

Analyical 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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Envirotech 5796 US HWY 64 Farmington NM, 87401	5	Name: Number: Manager:	0303	Quarter Closu 7-0006 Liese	ure Sampling	5		Reported: 06-Dec-13 17	
		P3 110	45-3 84-01 (So	olid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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		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	
Nonhalogenated Organics by 8015									
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	
Cation/Anion Analysis									
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	t Name: t Number: t Manager:	0303	4th Quarter Closure Sampling 03037-0006 Eric Liese			Reported: 06-Dec-13 17:25		
		P3110	39-3 84-04 (Se	olid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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	
Nonhalogenated Organics by 8015									
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	
Cation/Anion Analysis									
Chloride	ND	9.78	mg/kg	1	1349010	12/03/13	12/03/13	EPA 300.0	



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

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 1349009 - Purge and Trap EPA 5030A										
Blank (1349009-BLK1)				Prepared: 0	3-Dec-13	Analyzed:	05-Dec-13			
Benzene	ND	0.05	mg/kg	1						
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	R							
o-Xylene	ND	0.05	"							
Fotal Xylenes	ND	0.05	и							
Fotal 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)	Sou	rce: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: (05-Dec-13			
Benzene	ND	0.05	mg/kg		ND				30	
Foluenc	ND	0.05			ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
o,m-Xylene	ND	0.05	и		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)	Sou	rce: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: (05-Dec-13			
Benzene	42.4		ug/L	50.0	ND	84.8	39-150			
Toluene	47.4		21	50,0	ND	94. 7	46-148			
Ethylbenzene	47.6		**	50.0	NÐ	95.1	32-160			
o,m-Xylene	94.5			100	ND	94.5	46-148			
-Xylene	47.6			50.0	ND	95.2	46-148			
urrogate: 1,3-Dichlorobenzene	48.7		"	50.0		97.3	80-120			
urrogate: Bromochlorobenzene	50.9		"	50.0		102	80-120			

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

Envirotech Analytical Laboratory										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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)	Sou	rce: 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)	Sou	rce: 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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Eric Liese	06-Dec-13 17:25

Envir	otech A	Analytic	al Labor	atory	

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1349014 - DRO Extraction EPA 3550C										
Blank (1349014-BLK1)				Prepared: 0	3-Dec-13	Analyzed: (04-Dec-13			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1349014-DUP1)	Sour	ce: P312010-	01	Prepared: 0	3-Dec-13	Analyzed: (04-Dec-13			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1349014-MS1)	Sour	ce: P312010-	01	Prepared: 0	3-Dec-13	Analyzed: (04-Dec-13			
Diesel Range Organics (C10-C28)	217		mg/L	250	15.6	80.6	75-125			



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

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1349010 - Anion Extraction EPA 300.0		_								
Blank (1349010-BLK1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	ND	9.89	mg/kg							
LCS (1349010-BS1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	531	9.84	mg/kg	492		108	90-110			
Matrix Spike (1349010-MS1)	Sourc	e: P311076-	01	Prepared &	Analyzed:	03-Dec-13				
Chloride	1130	9.89	mg/kg	495	552	117	80-120			
Matrix Spike Dup (1349010-MSD1)	Sourc	e: 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	Project Name:	4th Quarter Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Eric Liese	06-Dec-13 17:25

Notes and Definitions

The spike recovery for this QC sample is outside of control limits.
Analyte DETECTED
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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5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 1	Sample(s) dropped off atter hours to secure drop off area.	Sample Matrix Soil 🕅 Solid 🗆 Sludge 🔲 Aqi	Relinquished by: (Signature)	1 hi	Relinquished by: Signature)						32-3	39-3	· 30-3	38-3	45-3 11-	Sample No./ Identification S	Client Phone No.:	Kandra	Email results to:	Client:	
Farmington, NM 8740	urs to secure drop of	Aqueous D Other D.									12:15	12:25	14:00	14:50	11-26-13 2000 2000	Sample Sample Date Time	Clie	2	Sar	Pro	CH
1 • 505-632-0615 • Th	rarea.										120-1201/64	P31108404	1311084-03	634084-02	19311084-01 1 402 Jar	Lab No.	Client No.:	Griz Liese	Sampler Name:	Project Name / Location:	CHAIN OF CUSTODY R
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	ENVIROTECH Inc.		
	5796 US HWY. 64, FARMINGTON, NM (505) 632-0615	87401	PIT No: C.O.C #:
- 1	REMEDIATION FACILITY CLOSURE VERIFICATION		JO5 No: OF
FACILITY LOCATION: ENVIRONELOCATION SOURCE LOCATION 39-3 SOURCE LOCATION 39-3	h Landform m 2-5		DATE STARTED 11-26-13 DATE FINISHED 11-26-13
	PIT TYPE:		SPECIALIST.
DIMENSIONS	Y:		F COMP SAMPLES:
FIELD NOTES & REMARKS: FAC	ILITY CENTER LOCATED APPROX	TARDS	FROM WELLHEAD
DEPTH TD GROUNDWATEP NEAREST WATER SOURCE/TYPE NEAREST SURFACE WATER MAX TPH PER NMOCD No. DF 5-PDINT COMPOSITE SAMPLES YAPDAGE# 0-200=1 201-400=2 401-1000=3 >1000=5		14	
FACILITY DIAGRAM	GRID SCALE: NTS		
+ + +	1 + + +	OVN RESUL SAMPLE TRELD PD	TS
DD-19	D_{X^*}		NORTH
× ×		LAB RESUL	WELLHEAD
× EE-19	EE-20	SAMPLE MALVE	SURFACE FLOW DIR
**	· · · ·		ESTIMATED GROUNDWATER FLOW DIP.



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

Date: 12/6/13

Entire Report Reviewed By:

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

Analyical 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	t Name: t Number: t Manager:	Landfarm 2-5 Closure Sampling 03037-0006 Kendra Runung					Reported: 06-Dec-13 17:37		
		P3120	56-2 09-03 (So	olid)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
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		9 7.7 %	80	-120	1349020	12:04:13	12:07:13	EPA 8021B		
Nonhalogenated Organics by 8015										
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		
Cation/Anion Analysis										
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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	06-Dec-13 17:37

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 1349020 - Purge and Trap EPA 5030A										
Blank (1349020-BLK1)				Prepared: ()4-Dec-13	Analyzed: (05-Dec-13			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	и							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	u							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	17							
Total BTEX	ND	0.05	n							
Surrogate: 1,3-Dichlorobenzene	47.7		ug L	50.0		95.5	80-120			
Surrogate: Bromochlorobenzene	49.0		"	50.0		98.0	80-120			
Duplicate (1349020-DUP1)	Sou	rce: P312004-	01	Prepared: (04-Dec-13	Analyzed:	06-Dec-13			
Benzene	ND	0.05	ing/kg		ND				30	
Toluene	ND	0.05	и		ND				30	
Ethylbenzene	ND	0.05			ND				30	
p,m-Xylene	ND	0.05	ч		ND				30	
o-Xylene	ND	0.05	н		ND				30	
Surrogate: 1,3-Dichlorobenzene	35.6		ng/L	50.0		71.2	80-120			Surr
Surrogate: Bromochlorobenzene	33.6		"	50.0		67.1	80-120			Surr
Matrix Spike (1349020-MS1)	Sou	rce: P312004-	01	Prepared: ()4-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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	06-Dec-13 17:37

Envirotech Analytical Laboratory										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1349019 - DRO Extraction EPA 3550C										
Blank (1349019-BLK1)				Prepared: (04-Dec-13	Analyzed: (05-Dec-13			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1349019-DUP1)	Sou	Source: P312006-01		Prepared: 04-Dec-13 Analyzed: 05-Dec-13						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1349019-MS1)	Sou	Source: P312006-01		Prepared: (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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	06-Dec-13 17:37

Envirotech Analytical Laboratory

Anaiyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1349020 - Purge and Trap EPA 5030A										
Blank (1349020-BLK1)				Prepared: 0	4-Dec-13	Analyzed: ()5-Dec-13			
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg							
Duplicate (1349020-DUP1)	Source: P312004-01		Prepared: 04-Dec-13 Analyzed: 06-Dec-13							
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1349020-MS1)	Source: P312004-01		Prepared: 0	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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Envirotech	Project Name:	Landfarm 2-5 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	06-Dec-13 17:37

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyza	Decult	Reporting	Unito	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Notos
Analyte	Result	Limit	Units	Level	Result	%KEC	Limits	KPD	Limit	Notes
Batch 1349010 - Anion Extraction EPA 300.0										
Blank (1349010-BLK1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	ND	9.89	mg/kg						1922	
LCS (1349010-BS1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	531	9.84	mg/kg	492		108	90-110			
Matrix Spike (1349010-MS1)	Source: P311076-01			Prepared & Analyzed: 03-Dec-13						
Chloride	1130	9.89	mg/kg	495	552	117	80-120			
Matrix Spike Dup (1349010-MSD1)	ce: 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	Project Name:	Landfarm 2-5 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	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
Analyte	Kesuk	Limit	Units	Level	Kesun	70KEC	Lunus	<u></u>	Lunit	Notes
Batch 1349011 - Anion Extraction EPA 300.0										
Blank (1349011-BLK1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	ND	9.94	mg/kg							
LCS (1349011-BS1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	507	9.96	mg/kg	498		102	90-110			
Matrix Spike (1349011-MS1)	Sour	ce: P312005-	01	Prepared: 0	3-Dec-13	Analyzed: (04-Dec-13			
Chloride	544	9.93	mg/kg	497	36.9	102	80-120			
Matrix Spike Dup (1349011-MSD1)	Sour	ce: P312005-	01	Prepared: 0	3-Dec-13	Analyzed:	04-Dec-13			
Chloride	5 46	9.98	mg/kg	499	36.9	102	80-120	0.396	20	

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Envirotech	Project Name:	Landfarm 2-5 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	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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5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com	Sample(s) dropped off after hours to secure drop off area. Analytical Laboratory	Sample Matrix Soil I Soiid □ Sludge □ Aqueous □ Other □	Relinquished by: (Signature)	20:51 (10/10/ John - 2.)	Relinquished by: (Signature) Date Time Received by: (Signature)					X X X X X X X X X X X X X X X X X X X	53-2 12/2/13 1:21 P312089-02 1-402 XXX XX	50-2 12/2/13 12:58 P312009-01 1-40元 XXX 人 X	VOC (RCRA Cation RCI TCLP	(Method Method 8 Metro 1 / Anio with H, able 910 418.1)	A. Garcia 8015 1 8260 als n	Sampler Name:	Enviso kich (and king 2-5) Closure Samulis		CHAIN OF CUSTODY RECORD 16392
boratory@envirotec					•					×	×	×	CO Ta TPH (uble 91 418.1)			3IS / PARAMETER		163
NC.COTN san juan reproduction 578-129				7.15	Time					X	Х	X	Samp	le Intac	x		age	12 0	of 12





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

Date: 12/6/13

Entire Report Reviewed By:

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

Analyical 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	Project Name: Landfarm 2-5 Closure Sampling Project Number: 03037-0006 Project Manager: Kendra Runung						Reported: 06-Dec-13 16:59		
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
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	ng/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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	06-Dec-13 16:59

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 1349009 - Purge and Trap EPA 5030A										
Blank (1349009-BLK1)				Prepared: 0	3-Dec-13	Analyzed: (05-Dec-13			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	м							
Ethylbenzene	ND	0.05	и							
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)	Sou	irce: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: (05-Dec-13			
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	11		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p.m-Xylene	ND	0.05			ND				30	
a-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	50.9		ug L	50.0		102	80-120			
Surrogate: Bromochlorobenzene	53.5		n	50.0		107	80-120			
Matrix Spike (1349009-MS1)	Sou	irce: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: ()5-Dec-13			
Benzene	42.4		ug/L	50.0	ND	84.8	39-150			
foluene	47.4		28	50.0	ND	94.7	46-148			
Ethylbenzene	47.6		n	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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	06-Dec-13 16:59

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 1349008 - DRO Extraction EPA 3550C										
Blank (1349008-BLK1)				Prepared: ()3-Dec-13	Analyzed: (05-Dec-13			
Diesel Range Organies (C10-C28)	ND	29.9	mg/kg							
Duplicate (1349008-DUP1)	Sou	rce: P311074-	01	Prepared &	Analyzed:	03-Dec-13				
Dicsel Range Organics (C10-C28)	1540	30.0	mg/kg		1690			8.99	30	
Matrix Spike (1349008-MS1)	Sou	rce: 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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Gasoline Range Organics (C6-C10)

Envirotech	Projec	t Name:	L	andfarm 2-5 (Closure Sar	npling				
5796 US HWY 64	Projec	t Number:	03	03037-0006				Reported:		
Farmington NM, 87401	Projec	t Manager:	K	endra Runung	g				06-Dec-13	16:59
	Nonhalogen	ated Org	anics by	y 8015 - Qi	ality Co	ntrol				
	Env	irotech A	Analyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1349009 - Purge and Trap EPA	5030A									
Blank (1349009-BLK1)				Prepared: 0	3-Dec-13	Analyzed: ()5-Dec-13			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1349009-DUP1)	Source	: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: ()5-Dec-13			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1349009-MS1)	Source	: P311076-	01	Prepared: 0	3-Dec-13	Analyzed: (5-Dec-13			

mg/L

0.450

90.0

0.09

75-125

0.49

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Envirotech	Proj	ect Name:	L	andfarm 2-5 (Closure San	npling				
5796 US HWY 64	Proj	ect Number:	03	3037-0006					Report	ed:
Farmington NM, 87401	Proj	ect Manager:	K	endra Runung	g				06-Dec-13	16:59
		on/Anion A wirotech A	•	- •						
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1349010 - Anion Extraction EPA 300.0										
Blank (1349010-BLK1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	ND	9.89	mg/kg							
LCS (1349010-BS1)				Prepared &	Analyzed:	03-Dec-13				
Chloride	531	9.84	mg/kg	492		108	90-110			
Matrix Spike (1349010-MS1)	Sou	rce: P311076-	01	Prepared &	Analyzed:	03-Dec-13				
Chloride	1130	9.89	mg/kg	495	552	117	80-120			
Matrix Spike Dup (1349010-MSD1)	Sou	rce: P311076-	01	Prepared &	Analyzed:	03-Dec-13				
Chloridc	1150	9.90	mg/kg	495	552	121	80-120	1.60	20	SPK1

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Envi	rotech	Project Name:	Landfarm 2-5 Closure Sampling	
5796	US HWY 64	Project Number:	03037-0006	Reported:
Farm	nington NM, 87401	Project Manager:	Kendra Runung	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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Client: Erevivo tech		Pro	Project Name / Location:	- 7 ()°2 m	ame / Location:	~				≥	ANALYSIS / PARAMETERS	/ SIS	PAF	AME	TER	S				Page 1
Email results to:		San	Sampler Name:	Eric Liese	0			8260)	s)	.1							
Client Phone No.:		Clie	Client No.: 0303子 - COUし	30		/lethod		Method	8 Meta	/ Anion		with H/F	ble 910	418.1)	RIDE				e Cool	e Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative	TPH (N	BTEX	VOC (RCRA	Cation	RCI	TCLP	CO Ta	TPH (4	CHLO				Sampl	Sampl
Cell 57 #3	11/21/13	5 3:22	P311076-01	1-40 2		\times	X					 			\times				X	X
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Sample Matrix Soil X Solid Studge	Aqueous 🗌	Other 🗌																		
X Sample(s) dropped off after hours to secure drop off area.	nours to sec	ure drop of	area.	ll en	envirotech	orațo	37													
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite	 Farmingto 	on, NM 8740	1 • 505-632-0615 • TI	hree Springs • 6	5 Mercado Stree	t, Suite	115, [115, Durango, CO 81301 • laboratory@envirotech-inc.com	90, C	C 813	• 10	abor	atory	@env	virote	ch-in	C.CO	В		
																5	an juar	reproc	san juan reproduction 578-129	578-12

ENVIROTECH Inc. PIT No:_ 5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615 C.O.C #:_ FIELD REPORT: REMEDIATION FACILITY JOS No: 03037-0006 PAGE No: ____ of ____ CLOSURE VERIFICATION Envirotech Land farm Landfarm 2-5 DATE STARTED 11-21-13 DATE FINISHED: 11-21-13 FACILITY LOCATION: _ SOURCE LOCATION. 60-SOURCE LOCATION -SOURCE LOCATION: . ENVIRONMENTAL SPECIALIST. 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. DF 5-PDINT COMPOSITE SAMPLES YARDAGE -- # 0-200=1 201-400=2 401-1000=3 >1000=5 GRID SCALE: NTS FACILITY DIAGRAM OVM RESULTS SAMPLE FIELD HEADSPACE NORTH WELLHEAD LAB RESULTS SAMPLE AMALYSS RESULTS SURFACE 9015 FLOW DIR 802 CT ESTIMATED GROUNDWATER FLOW DIR.

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 <u>brad.a.jones@state.nm.us</u>.

Sincerely,

Brad A. Jones

Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



October 28, 2013

RECEIVED OCD

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 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")

~18") Cell

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.

Greg Crabtree

Environmental Manager gcrabtree@envirotech-inc.com

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

Kendra Runung Waste Coordinator krunung@envirotech-inc.com

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

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





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

Date: 8/7/13

Entire Report Reviewed By:

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.

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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	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	07-Aug-13 08:38

Analyical 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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Cation/Anion Analysis

Chloride

Envirotech	Projec	t Name:	LF 2-:	5 2013 Semi	-Ann. Tmt	Zone Monitor	ing 2nd Evt		
5796 US HWY 64	Projec	t Number:	03037	-0006				Reported	:
Farmington NM, 87401	Projec	t Manager:	Kendr	a Runung				07-Aug-13 0	8:38
			40						
		P3080	05-08 (Sol	id)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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	
Nonhalogenated Organics by 8015									
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	

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: Number: Manager:	03037	5 2013 Semi 2-0006 ra Runung	-Ann. Tmt	Zone Monitor	ing 2nd Evt	Reported 07-Aug-13 (
		P3080	41 05-09 (Sol	lid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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	
Nonhalogenated Organics by 8015									
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	
Cation/Anion Analysis									
Chloride	326	10.0	mg/kg	1	1331033	02-Aug-13	02-Aug-13	EPA 300.0	



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

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	Note
Batch 1331031 - Purge and Trap EPA 5030A										
Blank (1331031-BLK1)				Prepared &	Analyzed:	02-Aug-13	۱			
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	14							
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)	Sou	rce: P308005-	01	Prepared &	Analyzed:	02-Aug-13	}			
Benzene	ND	0.05	mg/kg		ND				30	
Tołucnc	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)	Sou	rce: P308005-	-01	Prepared &	Analyzed:	02-Aug-13	3			
Benzene	48.0	100/14	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		n	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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	07-Aug-13 08:38

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1331030 - GRO/DRO Extractio	on EPA 3550C									
Blank (1331030-BLK1)				Prepared &	Analyzed:	02-Aug-13	3			
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	и							
Duplicate (1331030-DUP1)	Sourc	e: P308005-	01	Prepared &	: Analyzed:	02-Aug-13	3			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND	Altra			30	
Diesel Range Organics (C10-C28)	65.4	5.00	"		69.1			5.61	30	
Matrix Spike (1331030-MS1)	Sourc	e: P308005-	01	Prepared &	Analyzed:	02-Aug-13	3			
Gasoline Range Organics (C6-C10)	252	5.26	ıng/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	wirotech Project Name: LF 2-5 2013 Semi-Ann. Tmt Zone Monitoring 2r					nd Evt							
5796 US HWY 64	Projec	t Number:	03	03037-0006					Reported:				
Farmington NM, 87401	Projec	t Manager:	Kendra Runung						07-Aug-13 08:38				
	Cation	Anion A	nalysis	- Quality	Control			-					
	Env	irotech A	Analyti	cal Labor	atory								
		Reporting		Spike	Source		%REC		RPD				
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch 1331033 - Anion Extraction E	PA 300.0												
Blank (1331033-BLK1)				Prepared &	Analyzed:	02-Aug-13	•						
Chloride	ND	9.99	mg/kg										
Duplicate (1331033-DUP1)	Source	: P308007-0	01	Prepared &	Analyzed:	02-Aug-13							
Chloride	16.2	9,99	mg/kg		14.9			8.37	30				

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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	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	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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			HAIN OI							E	CC)F	RC)			1	59:	14			
Client: E-Tech		Р	roject Name / Location E-Tech /	in: 2013	Semi A	Zun	Trea Euc	tmer ent 2	7				A	NALY	/S IS	/ Paf	RAME	TERS	\$			
Email results to: Rcne, Kendra			ampler Name: Rene							1 8021)	8260)	S			0	÷						
Client Phone No.:		C	lient No.: <i>0303</i>	7-0	006				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	118.1)	RIDE			e Cool	Sample [,] Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Volume Intainers		reservat нсі		у) нат		VOC (I	RCRA	Cation	RCI	TCLP	со та	TPH (418.1)	CHLORIDE			Sample (Sampl
26	811	12:40	P308005-01	1-1	tor			X	X	X								X			¥	Y
28	811	17:50	P308005-02	1-0	Hoz			X	X	X								X				
· 29	8/1	13:00	P308005-03	1-0	Hoz			X	X	X								X				
30	8/1	13:05	P308005-04	1-	402		•	X	χ	X								X				
32	8/1	13:10	P308005-05	1-4	102			X	X	X								X				
38	8/1	13:14	P308005-06					X	X	X								χ				
39	811	13:17	P308005-07	1-4	102			X	X	X								Х			Τ	Π
40	8/1	13:25	P308005-08	1-4	102			X	X	X								X				
41	811	13:30	17308005-09	1-4	102			X	X	X								X				T
43	811	13:37			102			X	X	X								X			T	T
Relinguished by: (Signature)	Trend	D. L		Date	Time 4:05	Recei	ived b	y: (S	ignati	ure)			2	 ~		I	.			Date		ime 03
Relinquished by: (Signature)						Recei	ived b	y: (S	ignati	ure)												
Sample Matrix																						
Soil 🖄 Solid 🗌 Sludge 🗍 🖉	Aqueous 🗌) Other []																			

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П



ENVIROTECH Inc. PIT No:___ 5796 US HWY. 64, FARMINGTON, NM 87401 (505) 832-0615 C.O.C #:_ FIELD REPORT: REMEDIATION FACILITY JOS No: PAGE No: _ of _ CLOSURE VERIFICATION FACILITY LOCATION: LAMPFORM 2 UNITS DATE STARTED: 8-1-13 SOURCE LOCATION: . DATE FINISHED: SOURCE LOCATION: Cell 40 - Closure Sampling ENVIRONMENTAL Rene Gamie SOURCE LOCATION: _ 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. DF 5-PDINT COMPOSITE SAMPLES 4 - Descrete Samples from Surface YARDAGE -- # 0-200=1 201-400=2 401 - 1000 = 3>1000=5 FACILITY DIAGRAM GRID SCALE: OVM RESULTS SAMPLE FIELD HEADSPACE NORTH WELLHEAD LAB RESULTS SAMPLE ANALYSS RESULTS SURFACE X FLOW DIR. 4 ESTIMATED GROUNDWATER 17" 11130 cy FLOW DIR. N



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

Date: 10/22/13

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

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

Analyical Report for Samples

10/15/13 10/15/13 Glass Jar, 4 oz.
10/15/15 10/15/15 Glass Jai, 4 02.
10/15/13 10/15/13 Glass Jar, 4 oz.

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EnvirotechProject Name:5796 US HWY 64Project Number:Farmington NM, 87401Project Manager:			03037	uarter Landf 7-0006 ra Runung	Reported: 22-Oct-13 15:36				
			ction 51 61-06 (So	lid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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 %	80-	120	1342025	10/16/13	10/21/13	EPA 8021B	
Surrogate: Bromochlorobenzene		90.2 %	80-	120	1342025	10/16/13	10/21/13	EPA 8021B	
Nonhalogenated Organics by 8015									
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	
Cation/Anion Analysis									
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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	22-Oct-13 15:36

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 1342025 - Purge and Trap EPA 5030A										
Blank (1342025-BLK1)				Prepared: 1	6-Oct-13	Analyzed: 2	1-Oct-13			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05								
o,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	1101.0		
Surrogate: Bromochlorobenzene	51.4		"	50.0		103	80-120			
Duplicate (1342025-DUP1)	Sou	irce: P310061-	01	Prepared: 1	16-Oct-13	Analyzed: 2	21-Oct-13			
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	и		ND				30	
Ethylbenzene	ND	0.05	14		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)	Sou	irce: P310061-	01	Prepared: 1	6-Oct-13	Analyzed: 2	21-Oct-13			
Benzene	48.9		ug/L	50.0	0.15	97.5	39-150			
Foluene	53.4		*1	50.0	0.73	105	46-148			
Ethylbenzene	51,8		"	50.0	0.09	103	32-160			
o,m-Xylene	103		"	100	0.42	102	46-148			
o-Xylene	51.9		μ	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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	22-Oct-13 15:36

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										
Blank (1342024-BLK1)				Prepared: 1	16-Oct-13	Analyzed: 1	7-Oct-13			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg					2.10 0		
Duplicate (1342024-DUP1)	Sou	rce: P310061-	-01	Prepared: 1	16-Oct-13	Analyzed: 1	17-Oct-13			
Diesel Range Organics (C10-C28)	176	30,0	mg/kg		105			50.3	30	D1
Matrix Spike (1342024-MS1)	Sou	rce: P310061-	-01	Prepared: 1	16-Oct-13	Analyzed: 1	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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	22-Oct-13 15:36

Nonhalogenated Organics by 8015 - Quality Control

	Envirotech Analytical Laboratory									
Analyte	Result	Reporting Limit	Units	Spike	Source	%REC	%REC Limits	RPD	RPD Limit	Natas
Analyte	Kesuit	Limit	Units	Level	Result	70KEC	LIMIUS	KPD		Notes
Batch 1342025 - Purge and Trap EPA 5030A										
Blank (1342025-BLK1)				Prepared: 1	6-Oct-13	Analyzed: 2	21-Oct-13			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1342025-DUP1)	Sou	rce: P310061-	-01	Prepared: 1	6-Oct-13	Analyzed: 2	21-Oct-13			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1342025-MS1)	Sou	rce: P310061-	01	Prepared: 1	6-Oct-13	Analyzed: 2	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	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	22-Oct-13 15:36

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

	D k	Reporting		Spike	Source	8/BEC	%REC	DDD	RPD Limit	Natas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1342018 - Anion Extraction EPA 300.0										
Blank (1342018-BLK1)				Prepared &	Analyzed:	16-Oct-13				
Chloride	ND	9.97	mg/kg							
LCS (1342018-BS1)				Prepared &	Analyzed:	16-Oct-13				
Chloride	532	9.92	mg/kg	496		107	90-110			
Matrix Spike (1342018-MS1)	Sour	ce: P310061-	01	Prepared &	Analyzed:	16-Oct-13				
Chloride	818	9.92	mg/kg	496	282	108	80-120			
Matrix Spike Dup (1342018-MSD1)	Sour	ce: P310061-	01	Prepared &	Analyzed:	16-Oct-13				
Chloride	810	9,95	mg/kg	498	282	106	80-120	0.950	20	


Envirotech	Project Name:	4th Quarter Landfarm Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	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	
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Client: Envirote	ch		P	roject Name / Location	on: er L	and fa	Clos	sur Som	e npli	nq				A	NALY	(SIS	/ PAI	RAM	ETER	IS			
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Client Phone No.:			С	lient No.: 0303	37-0	0000	6			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	118.1)	RIDE			Samola Cool	Sample Intact
Sample No./ Identification		mple ate	Sample Time	Lab No.	No./	Volume ontainers	Pr HNO ₃	reserva HCI	tive Cool	A) HeT	втех	VOC (I	RCRA	Cation	RCI	TCLP	CO Ta	TPH (418.1)	CHLORIDE			Game	Sampl
Section 12	10/1	15/13	1314	P310061-01	1-4.	oz jar			Х	X	X								Х			Y	Y
Section 15			1250	P310061-02		1		ļ														4	
section 17			1303	P310061-03																			
section 27			1330	P310061-04				•														\parallel	
section 45			1233	P310061-05																			
section 51			1222	P310061-06																			
section 56				P310061-07																			
Section 57	1	L		P310061-08							1								1			1	1
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Relinquished by: (Signature)							Rece	ived I	oy: (S	ignat	ure)							•				,	
Sample Matrix Soil 🚺 Solid 🗌 Sludge 🗌	Aque	eous 🗌	Other [〕													•						
Sample(s) dropped off after			-	off area.		Anal	lytice	al Lo	ibor	ator	у	urana	10, C	0 813	301 •	labo	rator	y@en	virote	ch-inc	.com		

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of 16



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.

Sincerely, Brad A. Jones Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



July 1, 2013

RECEITO OCD 2013 JUL - 3 P 1: 12

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 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 Crabtre Environmental Manager gcrabtree@envirotech-inc.com

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>

envirotech-inc.com info@envirotech-inc.com





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

Date: 7/1/13

Entire Report Reviewed By:

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.

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

Analyical 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 5796 US HWY 64 Farmington NM, 87401		Number: Manager:	Closure Sampling/Landfarm 2 Unit 5 03037-0006 Kendra Runung				Reported: 01-Jul-13 12:34		
		P30612	26-01 (Sol	lid)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
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	
Nonhalogenated Organics by 8015									
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	
Cation/Anion Analysis									
Chloride	182	10.0	mg/kg	1	1326023	26-Jun-13	26-Jun-13	EPA 300.0	



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

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 EP.	A 5030A									-
Blank (1326024-BLK1)				Prepared: 2	6-Jun-13 /	Analyzed: 2	7-Jun-13			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	и							
p,m-Xylene	ND	0.05	*							
o-Xylene	ND	0.05	u							
Fotal Xylenes	ND	0.05								
Fotal 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)	Sou	rce: P306126-	01	Prepared: 2	6-Jun-13	Analyzed: 2	7-Jun-13			
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	м		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	н		ND				30	
o-Xylene	ND	0.05	н		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)	Sou	rce: 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			
p-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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Envirotech	Project Name:	Closure Sampling/Landfarm 2 Unit 5	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	01-Jul-13 12:34

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1326022 - GRO/DRO Extraction	on EPA 3550C									
Blank (1326022-BLK1)				Prepared &	Analyzed:	26-Jun-13				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Diesel Range Organies (C10-C28)	ND	4.99								
GRO and DRO Combined Fractions	ND	4.99								
Duplicate (1326022-DUP1)	Sourc	e: 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	n		231			36.5	30	D1
Matrix Spike (1326022-MS1)	Sourc	e: 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		н	250	220	120	75-125			

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Envirotech	Projec	ct Name:	C	losure Sampl	ing/Landfar	m 2 Unit 5				
5796 US HWY 64	Proje	ct Number:	03	3037-0006					Report	ed:
Farmington NM, 87401	Proje	ct Manager:	К	endra Runun	g				01-Jul-13	12:34
	Catio	n/Anion A	nalysis	- Quality	Control					
	Env	virotech A	nalyti	cal Labor	atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1326023 - Anion Extraction E	PA 300.0									
Blank (1326023-BLK1)				Prepared &	Analyzed:	26-Jun-13				
Chloride	ND	9.99	mg/kg							
Duplicate (1326023-DUP1)	Sourc	e: P306119-0	01	Prepared &	Analyzed:	26-Jun-13				
Chloride	19.6	10.0	mg/kg		19.5			0.295	30	

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	Envirotech	Project Name:	Closure Sampling/Landfarm 2 Unit 5	
	5796 US HWY 64	Project Number:	03037-0006	Reported:
	Farmington NM, 87401	Project Manager:	Kendra Runung	01-Jul-13 12:34
- 3				

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

Client: Enviroted	1	1	oject Name / Locat		Landfa	sm K	2						A	NALY	/SIS	/ PA	RAM	ETEF	S				
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Kendra Runun	٩		K. Pe	ine					80	0 0	82	s S			Ъ	1							
Client Phone No.:		Clie	ent No.:	37-00	06				Aethod	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	118.1)	RIDE			Samole Cool		sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		olume ntainers	Pr HNO3	eservat	ive	TPH (Method 8015)	BTEX	VOC (I	RCRA	Cation	RCI	TCLP	CO Ta	TPH (418.1)	CHLORIDE			Samo	10	1111100
Cell #29	6-241-13	15:30	P306126-01	140	z Ino			Х	χ	X								χ			4	1	1
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Sample Matrix																							_
Soil 🗹 Solid 🗌 Sludge 🗌	Aqueous 🗌) Other 🗌																					
Sample(s) dropped off after		·	f area.		e nv Anal																		

15773

of 8

ENVIROTECH Inc. COC 15773 PIT No: 5796 US HWY. 64, FARMINGTON, NM 87401 (505) 832-0615 C.O.C #:_ REMEDIATION FACILITY FIELD REPORT: JOS No. PAGE No: _ _ of _ CLOSURE VERIFICATION LandFarm 2 unit 5 FACILITY LOCATION. __ DATE STARTED: 6-24-13 DATE FINISHED: SOURCE LOCATION: . Cell 29 Closure SOURCE LOCATION: _ ENVIRONMENTAL R. Peire SOURCE LOCATION: 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 NMOCD: No. DF 5-PDINT 4- Discoret Samples From SurFace COMPOSITE SAMPLES YARDAGE -- # 0-200=1 201-400=2 401-1000=3 >1000=5 FACILITY DIAGRAM GRID SCALE: 5- Acre (e)) OVM RESULTS SAMPLE FIELD HEADSPACE X Х NORTH + WELLHEAD LAB RESULTS SAMPLE ANALYSIS RESULTS X χ 29 8015 SURFACE FLOW DIR. 29 300 ESTIMATED 7612 cy = ~11" GROUNDWATER FLOV DIR.

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.

Sincerely, Brad A. Jones Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec



June 25, 2013

RECEIVED COD 2013 JUN 25 A IG: 57

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 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 Crabtre**é** Environmental Manager <u>gcrabtree@envirotech-inc.com</u>

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879 envirotech-inc.com info@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 (1st Event)

Date: 1/23/13 Entire Report Reviewed By:

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.

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362 1879



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)



Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	0108TCAL QA		Date Reported	:	01-09-13
Laboratory Number:	64044		Date Sampled		N/A
Sample Matrix:	Methylene Chl	oride	Date Received		N/A
Preservative:	N/A		Date Analyzed	:	01-08-13
Condition:	N/A		Analysis Requ		ТРН
	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/l	(g)	Concentration		Detection Limit	t
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbon	IS	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	Pro	ject #:	03037-0006
Sample ID:	Cell 4	Dat	e Reported:	01-11-13
Laboratory Number:	64048	Dat	te Sampled:	01-03-13
Chain of Custody:	15045	Dat	te Received:	01-04-13
Sample Matrix:	Soil	Dat	te Analyzed:	01-10-13
Preservative:	Cool	Dat	te Extracted:	01-07-13
Condition:	Intact	Ana	alysis Requested:	BTEX
		Dilu	ution:	50
				Det.
		Concentration		Limit
Parameter		(ug/Kg)	(น	ig/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)



Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 0110BCAL QA/QC 64044 Soil N/A N/A	;	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis:	0 N N 0 B	/A 1-11-13 /A /A 1-10-13 TEX
Calibration and	I-Cal RF:	C-Cal RF:	Dilution: %Diff.	5 Blank	Detect.
Detection Limits (ug/L)		Accept. Range 0-159		Conc	Limit
Benzene Toluene	9.4088E-06 9.4563E-06	9.4088E-06 9.4563E-06	0.000 0.000	ND ND	0.2 0.2
Ethylbenzene p,m-Xylene o-Xylene	1.2394E-05 1.0525E-05 1.2985E-05	1.2394E-05 1.0525E-05 1.2985E-05	0.000 0.000 0.000	ND ND ND	0.2 0.2 0.2
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	Sample ND 49.4 ND 41.4 ND	Duplicate ND 45.2 ND 37.8 ND	0.09 0.00 0.09	Accept Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	Detect. Limit 10 10 10 10 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

 Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA.

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)

15045

CHAIN OF CUSTODY RECORD

Client: Envisotech		P	oject Name / Location	n: La Treatr	ndfasr	ne m	onitorin	<u>م</u> د	15	Eve	nt)		ALY	'SIS /	PAF	RAME	TER	S				
Email results to:		S	moler Name:	-		5		1	Ê		22	er rei										
Kerdra Runnin	9		κ .	Pein	rR	_		8015	1 802	826		_			-							
Client Phone No.:		CI	ient No.: 030			6		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	HCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE				Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Volume Intainers	Pro HigCitz	HCI (UC)	трн (I	BTEX	voc (RCRA	Cation	ВĊ	TCLP	CO Ta) Hqt	CHLORIDE				Samp	Samp
Cell 15	1-3-13	14:12	64044 9361010-01A	140	oz Jao		X	X	Х								X			`	X	X
Cell 10	1-3-13	14:18	64045 19301010-024	140	z Jar		<u> </u>	X	Х		X					X						Ĩ
Cell 14	1-3-13	14:27	64046 P301010-03A	140	zJac		_X	X	X										-0			
Cell 9		14:36			z Jac		X	X	X		X					X		add	la liz			
Cell 4	1-3-13	14:45	P301010-0519	140	2 Jas	、	<u> </u>	X	X		X					X	Ш		S .			
Cell 6	1-3-13	1	P 301010-06A	140	2 Jas		X	Х	X		X					X		ĥ	-de La			
Cell 16	1-3-13	15:10		140	2 Jar	-	X	X	X		X					X.			74			
Cell 19	1-3-13	15:18	64051 P301010-0817	146:	z Jac		-X	X	Χ		X					X						
Cell 20	1-3-13	15:25	64053 P301010-0517 64053		Jar		X	Х	Х													
Cell 17	1-3-13	5:33	64053 P301010-1017	1402	zjar		_X	X	X		X					X	1				Ц.	늬
Relinquished by: (Signature)	Thank	Però		Date /-3-13		Receiv	red by: (Si	ignati		λc			ade	ted	1	16/1 Kere	3 7	_		Date	Tin	
Relinquished by: (Signature)		y cri		1-242		Receiv	/A//// /ed by: (Si	(<u>()</u> ignat	11-	0	~			pe	<u>, ,</u>		~~	_		113		40
	0																					
Sample Matrix	. –																					
	Aqueous 🗌																					\neg
Sample(s) dropped off after	hours to sec	cure drop o	ff area.	3 e			te C															
5795 US Highway 6	4 • Farmingto	on, NM 874	01 • 505-632-0615 • T	hree Spri	ngs • 65 N	lercad	o Street, Su	uite 1	15, D	Jrang	10, CC	0 8130)1 • (c	abord	atory	Øenv	irote	ch-inc	.com			



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

Date: 6/24/13

Entire Report Reviewed By:

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	Project Name:	Landfarm 2 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	24-Jun-13 12:21

Analyical 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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Page 2 of 9



Envirotech 5796 US HWY 64 Farmington NM, 87401	Projec	t Name: t Number: t Manager:	03037	àrm 2 Closu 7-0006 ra Runung	re Sampling	3		Reported: 24-Jun-13 12:21		
		P3061	15 09-02 (Sol	lid)						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021				-						
Benzene	ND	0.05	mg/kg	I	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	data (), l'orque	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		
Nonhalogenated Organics by 8015										
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		
Cation/Anion Analysis										
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	WY 64 Project Number: NM, 87401 Project Manager: P30610 P30610 Reporting Result Limit 2anics by EPA 8021 ND 0.05 ND 0.05 ND 0.05						Landfarm 2 Closure Sampling 03037-0006 Kendra Runung						
		P3061	՝ 18 09-03 (Sol	id)									
Analyte	Result		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes				
Volatile Organics by EPA 8021													
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: Fluorohenzene		98.6 %	80-	120	1326001	24-Jun-13	24-Jun-13	EPA 8021B					
Nonhalogenated Organics by 8015													
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					
Cation/Anion Analysis													
Chloride	136	9.99	mg/kg	1	1326003	24-Jun-13	24-Jun-13	EPA 300.0					

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Envirotech	Project Name:	Landfarm 2 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	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
Batch 1326001 - Purge and Trap EPA 5030	A									
Blank (1326001-BLK1)				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, B
o-Xylene	ND	0.05	н							
Surrogate: Bromochlorobenzene	49 .7		ug L	50.0		99.4	80-120			
Surrogate: 1,4-Difluorobenzene	48.0		n	50.0		96.0	80-120			
Surrogate: Fluorobenzene	48.5		"	50.0		97.0	80-120			
Duplicate (1326001-DUP1)	Sou	rce: P306109-	-01	Prepared &	z Analyzed:	24-Jun-13				
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	e		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			
Matrix Spike (1326001-MS1)	Sou	rce: 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			

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865	envirotech-inc.com
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615	Fr (800) 362-1879	laboratory senvirotech-inc.com



Envirotech	Project Name:	Landfarm 2 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	24-Jun-13 12:21

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1326002 - GRO/DRO Extractio	on EPA 3550C									
Blank (1326002-BLK1)			24-Jun-13							
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Diesel Range Organies (C10-C28)	ND	5.00								
GRO and DRO Combined Fractions	ND	5.00	"							
Duplicate (1326002-DUP1)	Sour	ce: 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)	Sour	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			



Envirotech 5796 US HWY 64 Farmington NM, 87401	Proj	ect Name: ect Number: ect Manager:	Reported: 24-Jun-13 12:21								
		on/Anion A virotech A	•	- •							
Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 1326003 - Anion Extraction EPA		Linin	Onits	Lever	Kesun	JORESC		ND	Lint	notes	
Blank (1326003-BLK1)				Prepared &	Analyzed:	24-Jun-13					
Chloride	ND	9.99	mg/kg				a				
Duplicate (1326003-DUP1)	Sour	Source: P306109-01		Prepared &	k Analyzed:						
Chloride	68.0	9,99	mg/kg		69.5						

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Page 7 of 9



Envirotech	Project Name:	Landfarm 2 Closure Sampling	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	24-Jun-13 12:21

Notes and Definitions

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

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laboratory ...envirotech-inc.com

15740

CHAIN OF CUSTODY RECORD

		Cł	IAIN O	FC	US	ГС	D	Y	R	E	CC)F	RD)			1	57	40			
Client:		P	roject Name / Locatio	on:	· [A	NALY	SIS	/ PA	RAME	ETER	S			
Email results to:	,the.	S	ampler Name: <u>Rewe</u> Carrie	<u> </u>	<u>Roser</u>	<u>es</u>			015)	8021)	3260)											
Client Phone No.:		С	lient No.: 03037 - 0			<u>~</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	418.1)	RIDE			Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		/Volume ontainers	Pr HNO3	eserva HCI	tive w	I) HYT	втех	VOC (RCRA	Cation	RCI	TCLP	со Та	TPH (418.1)	CHLORIDE			Samp	Samp
concered,	6/2/13	<u> </u>			102			X	X	X								×			Y	Y
per 195 render 45 6/24/3/8]	16:25	P306109-02)			Х	X	\checkmark								X				
6/24/3/8	2	16:35	P306169-0	3	Ţ			\checkmark	Х	X								χ			1	L
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Relinquished by: (Signature)	R	9K-72	û	Date 6/21	Time 17:20	Rece				ure)	ù									Date 6/21/13		ime 25
Relinquished by: (Signature)	(<i>_</i>				Hece	ived I	by: (S	ignat	ure)												
Sample Matrix	t																				1	
Soil 🗍 Solid 🗌 Sludge	Aqueous 🗅	Other []																			
Soil I Solid Sludge	hours to set	cure drup d											0.813	801	labo	ratoo	V@en	virote	chinc			•






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.

Sincerely Brad A. Jones

Environmental Engineer

BAJ/baj

Attachment: Facility Map (Date: May 21, 2013)

cc: OCD District III Office, Aztec





May 21, 2013

1506/10 000 203 MT 21 P 5 18

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

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>





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

_____ Date: 8/31/12 Entire Report Reviewed By:

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 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



Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	0830TCAL QA		Date Reported	:	08-30-12
Laboratory Number:	63118		Date Sampled		N/A
Sample Matrix:	Methylene Chl	oride	Date Received		N/A
Preservative:	N/A		Date Analyzed	:	08-30-12
Condition:	N/A		Analysis Requ	ested:	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/ł	Concentration		Detection Limit	:	
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbon	S	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 Was SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 63115, 63118 and 63120-63121



Client:	Envirotech	Project #:		03037-0006
Sample ID:	Cell 5	Date Repo	rted:	08-30-12
Laboratory Number:	63118	Date Samp	oled:	08-29-12
Chain of Custody:	14382	Date Rece	ived:	08-29-12
Sample Matrix:	Soil	Date Analy	/zed:	08-30-12
Preservative:	Cool	Date Extra	cted:	08-30-12
Condition:	Intact	Analysis R	equested:	BTEX
		Dilution:		50
			Det.	
		Concentration	Limit	
Parameter		(ug/Kg)	(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



Client: Sample ID: Laboratory Number:	N/A 0830BCAL QA/Q0 63118		Project #: Date Reported: Date Sampled:	0	I/A 8-30-12 I/A
Sample Matrix:	Soil		Date Received:	-	vA VA
Preservative:	N/A		Date Analyzed:	•	8-30-12
Condition:	N/A		Analysis:	E	TEX
			Dilution:	5	0
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.
Detection Limits (ug/L)		Accept. Range 0-15%	6	Conc	Limit
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

14382

CHAIN OF CUSTODY RECORD

Client: Project Name / Location: Landfarm Envirotech Closure Sampling 2										A	NAL	rsis	/ PA	RAM	ETEF	RS					
Email results to: Kendea Rununo	\	Sa	mpter Name: K. Peine					TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	tals	5		¢,	0-1						5
Client Phone No.:)		ent No.:	37-000	6			Metho	(Meth	Metho	8 Me	/ Anic		with F	ble 91	418.1)	RIDE			S S S	e Inta
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Pr HgCi2	eservat HCI	tive Car	() HAT	BTEX	voc (RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Cell 5	8-2712	15:30	63118	1402 Jak			\boxtimes	Х	X								Χ			Y	Y
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																				+	
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Relinquished by: (Signature)	Mary-	Per		Date Time S-27-12 16:30		-	by: (Si Me			53							<u></u>		Date 8/29		Time 6:30
Relinquished by: (Signature)	0				Recei	ved b	oy: (Si	gnat	ure)			-									
Sample Matrix Soil 🗹 Solid 🗋 Sludge 🗌	Aqueous 🗆) Other 🗌																			
Sample(s) dropped off after Rush Please	hours to se	cure drop of	if area.	Senv Anal									01 -				ine 4 -				

ENVIROTECH Inc. PIT No: 5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615 C.O.C #:_ FIELD REPORT: REMEDIATION FACILITY JOB No. PAGE No: ___ of ___ CLOSURE VERIFICATION LandFarm 2 FACILITY LOCATION. -DATE STARTED: 8-27-12 DATE FINISHED: SOURCE LOCATION: _ Cell SOURCE LOCATION: _ ENVIRONMENTAL K. Peire SOURCE LOCATION: _ 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 NMOCD: No. DF 5-PDINT COMPOSITE SAMPLES YARDAGE -- # 1=005-0201-400=2 401-1000=3 >1000=5 FACILITY DIAGRAM GRID SCALE: 5 - Ace Girid OVM Surface composite Sample RESULTS SAMPLE FIELD HEADSPACE X NORTH + WELLHEAD LAB RESULTS SAMPLE ANALYSIS RESULTS 5 8015 SURFACE 802 5 FLOW DIR. X X 300. ESTIMATED GROUNDWATER No LiFt Zone / scraped to Nortive Sand FLOV DIR.

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson Governor

Jim Noel Cabinet Secretary

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Karen W. García 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 • <u>www.emnrd.state.nm.us/OCD</u>



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Envirotech, Inc. Commercial Landfarm #2 Permit NM-1-0011 December 8, 2010 Page 2 of 2

• 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."

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• 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 <u>brad.a.jones@state.nm.us</u>.

Sincerely

Brad A. Jones Environmental Engineer

BAJ/baj

Attachment: Facility Map (dated August 12, 2010)

cc: OCD District III Office, Aztec

UNDERGROUND TANK TESTING . SITE ASSESSMENT . SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615

ENVIROTECH INC.

April 26, 1993

OIL CON. DIV V 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





RECEIVED

DIST. -

OIL CON

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

L. ajemen Analyst

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5796 US Highway 64-3014 • Farmington, New Mexico 87401 Phone: (505) 632-0615 • Fax: (505) 632-1865

> UN APR 2 7.1993

OIL CON. DIV. DIST. 3

TRACE METAL ANALYSIS

Client: Envirote	ch 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

Concentration (mg/Kg)	Det. Limit (mg/Kg)		
0.70	0.001		
27.0	0.1		
2.26	0.001		
8.02	0.001		
3.66	0.001		
3.40	0.002		
0.50	0.001		
ND	0.01		
	(mg/Kg) 0.70 27.0 2.26 8.02 3.66 3.40 0.50		

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:

L. Quemen Analyst



Client:	Envirotech		Farmington, New Ma
Sample ID:	Landfarm#2	Date Reported:	04/07/93
Laboratory ID:	26905	Date Sampled:	03/19/93
Sample Matrix:	Water	Time Sampled:	1235
Condition:	Cool/Intact	Date Received:	03/30/93

	Analytical			
arameter	Result	Units		Units
ab pH	6.9	s.u.		
ab Conductivity @ 25° C	248	umhos/cm		
otal Dissolved Solids @ 180°C	<10	mg/L		
otal Dissolved Solids (Calc)	<10	mg/L		
otal Alkalinity as CaCO3	87	mg/L		
otal 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
nions		•••••	3.68	meq/L
ation/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_____





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

<u>Stole Feltur</u> Analyst

Review







> 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:	Ø326TPH.BLK	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Analyzed:	03-26-93
Condition:	NA	Analysis Requested:	TPH

Demometer	Concentration	Det. Limit (mg/L)
Parameter	(mg/L)	(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:

L. Gjenner Analyst

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CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location												
ENVIROTECH LA	NDEAN	em	LANDFARM # 2 F-17			ANALYSIS/PARAMETERS									
Sampler: (Signature)		······································	Chain of Custody Ta	pe No.					23				1	Remarks	
Moni Dy.	rung				of iners	is 2	3.5	5							
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix		No. of Containers 417.1 7774 GENER		TPH	METES						
#1 Cell F-17@2	' 3/19/	1235 3	4816	5	oil		2	~	~				BAS	ELINE	•
					<u></u>										
														<u></u>	

Relinquished by: (Signature)				Date	Time	Receive	d by: (S	ignature)						Date	Time
monialy	one			3/18/5	14:28		Ler	ida.	1	end	er			3-19-43	M25
Relinquished by: (Signature)	$ \longrightarrow $					Receive		ignature)							
Relinquished by: (Signature)						Receive	d by: (S	ignature)				<u></u>			
				5	ENVIROT 796 U.S. Hig mington, Net (505) 63	hway 64	4-3014	01						1	repro Form 578-81





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> R E E E I V E I APR 2 7 1993

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

OIL CON

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.

analyst hahalang

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ELVIROTECH LABS

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APR 2 7 1993

OIL CON

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

Concentration (mg/Kg)	Limit (mg/Kg)
ND	0.0001
ND	0.01
0.0005	0.0001
ND	0.0001
0.0053	0.0001
0.0012	0.0002
ND	0.0001
ND	0.001
	(mg/Kg) ND 0.0005 ND 0.0053 0.0012 ND

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

- L. Gensen Analyst









FCEIV APR 2 7 1993 OIL CON. DIST. S

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A Laboratory Blank TPSB0422 Soil N/A N/A	Project #: Date Sampled: Date Received: Date Analyzed: Date Reported: Analysis Needed:	N/A N/A 04-22-9 04-22-9 TPH
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:

<u>Analyst</u>









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

	Instrument Blank	Method Blank	Det. Limit
Parameter	(mg/Kg)	(mg/Kg)	(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 Apender





APR 2 7 1993

OL CON. DIV

DIST. 3

ECEIVE

**** QUALITY ASSURANCE REPORT** MATRIX SPIKE -TOTAL PETROLEUM HYDROCARBONS

Client:	NA	Project #:	
Sample ID:	Laboratory Spike	Date Sampled:	
Laboratory Number:	TPSS405S	Date Received:	
Sample Matrix:	Soil	Date Analyzed:	
Analysis Requested:	TPH	Date Reported:	
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:

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CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location	. <u> </u>				7/20		ANA	LYSIS/F	PARAMET	TERS		ł
ENVIROTRCH LAN	DFARM#	2	HILLTOP	New 1	MEKIC	0		<u></u>				······································		 	
Sampler: (Signature)			Chain of Custody Ta	ipe No.				2						Remarks	
moni d. 4	four	r					No. of Containers	418	2 2					 	
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		ž uo O	TPH 418.1	TOTAL METALS						
H-14	4/20/93	14:50	4963	50	:2		1							 	
										·				 	
		· · · · · · · · · · · · · · · · · · ·												 	
														 	114999.00.00.00.00.00.00.00.00.00.00.00.00.
						- 								 	
Relinquished by: (Signature)				Date	Time	Receiv	/ed by: (S	ignature)		2	/			Date	Time
morin D. 11	ming			4/21/93	810		Zu	ıda	· F	1.11	ter	/		4-21-93	81C
Morris D. y Relinquished by: (Signature)	ð					Receiv		ilgnature)							
Relinquished by: (Signature)		<u></u>				Receiv	ved by: (S	ignaturø)						 	
				5	NVIROT 796 U.S. Hi nington, Ne	ghway w Mex	64-3014 lico 874							 II	
					(505) 6	532-061	5							 san juan :	opro Form 578 81



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.

Sincerely Brad A-Jones

Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

Oil Conservation Division 1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3440 • Fax (505) 476-3462 • <u>www.emnrd.state.nm.us</u>



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

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>





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

Date: 3/27/13

Entire Report Reviewed By:

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.

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865	envirotech-inc.com
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615	Fr (800) 362-1879	y laboratory@envirotech-inc.com

Page 1 of 17



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	Envirotech	Project Name:	LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt		
1	5796 US HWY 64	Project Number:	03037-0006	Reported:	l
	Farmington NM, 87401	Project Manager:	Kendra Runung	27-Mar-13 08:44	

4

Analyical 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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Page 2 of 17



Envirotech 5796 US HWY 64 Farmington NM, \$7401	Project	t Name: t Number: t Manager:	per: 03037-0006			i Ann, Tmt Zone Monitoring 1st Evt			Reported: 27-Mar-13 08:44	
			Cell 43 52-07 (Sol	lid)		X				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	50.3	ug/L	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B		
Toluene	ND	50.3	ug/i.	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/I.	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B		
o-Xylene	ND	50,3	ug/i.	1	1312019	20-Mar-13	25-Mar-13	EPA 8021B		
Total BTEX	ND	50,3	ug/1,	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: Fluorohenzene		1()2 %	80	120	1312019	20-Mar-13	25-Mar-13	EP.4 8021B		
Nonhalogenated Organics by 8015						-				
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg	I	1312018	20-Mar-13	26-Mar-13	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	5.0	mg/kg	ł	1312018	20-Mar-13	26-Mar-13	EPA 8015D		
GRO and DRO Combined Fractions	ND	5.0	mg/kg	I	1312018	20-Mar-13	26-Mar-13	EPA 8015D		
Cation/Anion Analysis									<u> </u>	
Chloride	289	1.00	mg/kg	1 '	1313008	25-Mar-13	25-Mar-13	EPA 300,0		

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Envirotech	Project Name:	LF 2-5 2013 Semi Ann, Tmt Zone Monitoring 1st Evt		
5796 US HWY 64	Project Number:	03037-0006	Reported:	Í
Farmington NM, 87401	Project Manager:	Kendra Runung	27-Mar-13 08:44	İ

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1312019 - Purge and Trap EPA 5030A										
Blank (1312019-BLK1)				Prepared: 2	20-Mar-13	Analyzed: 2	22-Mar-13			
Benzene	ND	1.00	ug/L							
Toiuene	ND	1.00								
Ethylbenzene	ND	1,00	M							
p,m-Xylene	ND	1.00	*							
o-Xytene	ND	1,00	*							
Total BTEX	ND	1,00	*							
Surrogate: Broniochlorobenzene	44,7		"	50.0		89.5	80-120			
Surrogate: 1,4-Difluorobenzene	46.3		n	50.0		92.5	80-120			
Surrogate: Fluorohenzene	47.8		n	50.0		95.7	80-120			
Duplicate (1312019-DUP1)	Sou	rce: P303061-	01	Prepared: 2	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	٠		ND				30	
p.m-Xylene	ND	50.2	*		ND				30	
∿Xylene	ND	50,2	*		ND				30	
Surrogate: Bromochlorobenzene	47.0		M	50.0		94.1	80-120			
Surrogate: 1.4-Difluorobenzene	47.9		**	50.0		95.9	80-120			
Surrogate: Fhiorobenzene	46.9		n	50.0		93.9	80-120			
Matrix Spike (1312019-MS1)	Sou	Source: P303061-01		Prepared: 20-Mar-13 Analyzed: 22-Mar-13						
Benzene	46 3		ug/L	\$0.0	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	9 9.1		•	100	0.85	98.3	46-148			
o-Xylene	49.4		•	50.0	0,49	97,9	46-148			
Surrogate: Bromochlorobenzen#	48.1		n	50.0		96.1	80-120			
Surrogate: 1,4-Difluorohenzene	49.0		**	.50.0		97.9	80-120			
Surrogate: Fluorobenzene	44.1		17	50.0		88.2	80-120			

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Envirotech	Project Name:	LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Rumung	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
				<u> </u>						
Batch 1312018 - GRO/DRO Extraction	on EPA 3550C					<u> </u>		·····		
Blank (1312018-BLK1)				Prepared: 2	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	н						•	
Duplicate (1312018-DUP1)	Sour	ce: P303061-	01	Prepared: 2	20-Mar-13	Analyzed: 1	26-Mar-13			
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg		ND				30	
Diesel Range Organics (C10-C28)	67.7	5,0	٠		65.5			3.34	30	
Matrix Spike (1312018-MS1)	Sour	ce: P303061-	01	Prepared: 2	20-Mar-13	Analyzed: 2	26-Mar-13			
Gasoline Range ()rganics (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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Page 14 of 17



Envirotech 5796 US HWY 64 Farmington NM, 87401	Proj	ect Name: ect Number: ect Manager:	03	F 2-5 2013 Sé 8037-0006 endra Runun;		st Evt Reported: 27-Mar-13 08:44				
		on/Anion A virotech A	-	- •						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1313008 - Anion Extraction E										
Blank (1313008-BLK1)				Prepared &	Analyzed:	25-Mar-13				
Chloride	ND	1.00	mg/kg			<u></u>				
Duplicate (1313008-DUP1)	Sour	ce: P303062-	01	Prepared &	: Analyzed:	25-Mar-13				
Chloride	80.0	1.00	mg/kg		79.3			0.939	30	······

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				-	•	- ·		-	-

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Envirotech	Project Name:	LF 2-5 2013 Semi Ann, Tmt Zone Monitoring 1st Evt	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	27-Mar-13 08:44

Notes and Definitions

Surri	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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		Cł		FC	US [.]	ТС	D	Y	R	E	CC	DF	RC				1	53	09			
Client: Enviroteck	7	KENG	noject Name / Location	on: Tri cal Mo	eotmen niterin	17 Z 19 E #	ion i ven	e t	T						/SIS	/ PA	RAM	ETERS	3			
Email results to: T. MCINTOSK		Í S	ampler Name: T. McInt				<u> </u>		8015)	8021)	8260)	0				-						
Client Phone No.:			lient No.: 03037 -						TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	118.1)	RIDE			e Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Volume ntainers	Pr HgCi ₂	eserva HCI		N) HAT	BTEX	voc (I	RCRA	Cation	RCI	TCLP	CO Tal	TPH (418.1)	CHLORIDE			Sample	Sample
cell 37	3/18/13	1135	P303042-01	1-4	lozjar	-		×	X	Х								Х			X	X
cell 38		1130	1)			1													`	
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cell 40		1240	8303062-04				•	Π										T			Τ	\prod
cell 41		1235	P303002-05																			Ī
cell 42		1220	9303062-06																			Π
cell 43		1120																				
cell 44		1110	P.303062-08																			
cell 45		1100																				
cell 46		1055		-	L		~	L										T				
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Relinquished by: (Signature)						Recei	ved b	oy: (S	ignati	ure)	J										ĺ	•
Sample Matrix Soit Solid Sludge 🗌	Aqueous 🗖] Other []			**											•					.
Sample(s) dropped off afte	-		off area.		env Anal								0.010		r - 1						•	

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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

Date: 3/21/13

Entire Report Reviewed By:

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.

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Page 1 of 14 :



Envirotech	Project Name:	LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	21-Mar-13 14:57

Analyical 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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			Page 2 of 14



Envirotech	Project Name:		LF 2-	5 2013 Semi	Ann. Tmt 2	Zone Monitor	ing 1st Evt		
5796 US HWY 64	Projec	t Number:	03037	-0006			Reported:		
Farmington NM, 87401	Projec	t Manager:	Kendu	ra Runung				21-Mar-13 1	4:57
		(Cell 61						
		P3020	19-04 (So	lid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Foluene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feh-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	
p-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-Fcb-13	EPA 8021B	
Surrogate: Bromochlorobenzene		95.6 %	80-	120	1308016	19-Feb-13	19-Feb-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.8 %	80-	120	1308016	19-Feh-13	19-Feh-13	EPA 8021B	
Surrogate: Fluorohenzene		93.3 %	80-	120	1308016	19-Feh-13	19-Feb-13	EPA 8021B	
Nonhalogenated Organics by 8015		<u></u>							
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg	1	1307008	11-Feb-13	14-Feh-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	
Cation/Anion Analysis									
Chloride	ND	1.00	mg/kg	1	1307013	12-Feb-13	12-Fcb-13	EPA 300.0	

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Page 6 of 14 3 4



Envirotech		Project Name: LF 2-5 2013 Semi Ann. Tmt Zone Monito				Zone Monitor	5			
5796 US HWY 64	-	t Number:	03037-0006					Reported:		
Farmington NM, 87401	Projec	t Manager:	Kendi	ra Runung			<u>.</u>	21-Mar-13 14:57		
		Ċ	Cell 64							
		P3020	19-07 (So	lid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	50.0	ug/kg	50	1308016	19-Feb-13	19-Feb-13	EPA 8021B		
Foluene	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-Fcb-13	19-Feb-13	EPA 8021B		
D-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: Bromochlorohenzene		95.1 %	80-	120	1308016	19-Feh-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-Feh-13	19-Feb-13	EPA 8021B		
Nonhalogenated Organics by 8015								<u></u>		
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-Feh-13	15-Fcb-13	EPA 8015D		
GRO and DRO Combined Fractions	7.9	4.9	mg/kg	i	1307008	11-Feb-13	15-Feh-13	EPA 8015D		
Cation/Anion Analysis										
Chloride	ND	1.00	mg/kg	3	1307013	12-Feb-13	12-Feb-13	EPA 300.0		

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I	Envirotech	Project Name:	LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt	
	5796 US HWY 64	Project Number:	03037-0006	Reported:
	Farmington NM, 87401	Project Manager:	Kendra Runung	21-Mar-13 14:57

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 1308016 - Purge and Trap EPA 5030A										
Blank (1308016-BLK1)				Prepared &	Analyzed:	19-Feb-13				
Benzenc	ND	50,0	ug/kg							
Toluene	ND	50.0	"							
Ethylbenzene	ND	50.0	U							
p.m-Xylene	ND	50.0	u							
o-Xyl¢ne	ND	50.0	u							
Total BTEX	ND	50.0	u							
Surrogate: Bromochlorobenzene	2400		"	2500		95.8	80-120			
Surrogate: 1,4-Difluorohenzene	2360		**	2500		94,4	80-120			
Surrogate: Fluorobenzene	2400		"	2500		96.0	80-120			
Duplicate (1308016-DUP1)	Sou	rce: 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	
Ethylhenzene	162	50.0	н		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			
Matrix Spike (1308016-MS1)	Sou	rce: 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	н	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: Bromochlarobenzene	2760		Π	2500		110	80-120			
Surrogate: 1,4-Difluorobenzene	2510		*	2,500		100	80-120			
Surrogate: Fluorohenzene	2540		"	2500		102	80-120			

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Envirotech	Project Name:	LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt	
5796 US HWY 64	Project Number:	03037-0006	Reported:
Farmington NM, 87401	Project Manager:	Kendra Runung	21-Mar-13 14:57

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		rpd	
Analyte	Result	Limit	Units	Level	Result	%REC	I.imits	RPD	Limit	Notes
Batch 1307008 - GRO/DRO Extractio	n EPA 3550C		•							
Blank (1307008-BLK1)				Prepared: 1	1-Feb-13 A	Analyzed: 1	4-Feb-13		_	
Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.0	м							
JRO and DRO Combined Fractions	ND	5.0	"							
Duplicate (1307008-DUP1)	Sourc	e: P302019-	01	Prepared: 1	1-Feb-13	Analyzed: I	4-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	n		757			1.32	30	
Matrix Spike (1307008-MS1)	Sourc	e: P302019-	01	Prepared: 1	1-Feb-13	Analyzed: 1	4-Feb-13			
Jasoline Range Organics (C6-C10)	259	5.0	mg/kg	249	5.3	102	75-125			
Diesel Range Organics (C10-C28)	1030	5.0	9	249	757	109	75-125			

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Envirotech	Project Name:	ame: LF 2-5 2013 Semi Ann. Tmt Zone Monitoring 1st Evt			
5796 US HWY 64	Project Number:	03037-0006	Reported:		
Farmington NM, 87401	Project Manager:	Kendra Runung	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

Client: Envisotech		ofarm			5	- - 	75	. 60	~	A	NAL	YSIS	/ PA	RAM	ETEF	RS	~^ ¹ .	<u>مر</u>	F E.	σ			
Email results to:	<u> </u>		impler Name:	2	\sim '	•	$\frac{a}{5}$							<u>. </u>	<u>-1.</u>	<u>7 (</u>	<u>lone</u>	<u> </u>	<u>01.1</u>				
free and the second sec	nur D			K. Peine				8015	d 80	826	S			.	7								
Client Phone No.:		CI	ent No.: 030	37-0006			06			BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE				Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No. of Co		HCI	tive	TPH (Method 8015)	BTEX	VOC (RCRA	Cation	RCI	TCLP	CO Ta	у нат	CHLORIDE				Sampl	Sampl	
Cell 58	2-5-13	13:00	2302019-01A	4	oz Jas			X	X	X						-		X				V	4
Cell 59	2-5-13	13:15	P302019-0213]	_																	
Cell 60	2-5-13	13:30	P302019-03A			_																\square	
ce11 61	2-5-13	13:45	P302019-04A		<u> </u>	-																	
cell 62	2-5-13	12:00	P302019-05A		<u> </u>	_																	
Cell 63	2-5-13	12:15	P302019-06A		<u> </u>		 																
Cel164	2-5-13	12:30	P302019-07A		1	_								_									
Cell 65	2-5-13	12:45	P3 02019-08A						<u> </u>	<u> </u>								<u>_</u>	•			7	1
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Relinquished by: (Signature)	Though	eið		Date 25-3	Time 16i00	Recei	ved b	y: (Si	ignati				1	5			[1	Date	Tir 16	1
Relinquished by: (Signature)	-07					Recei	ved b	y: (Si	gnati	irey					(\sum	5						
Sample Matrix		<u></u>																					ľ,
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Sample(s) dropped off after	nours to sec	ure drop of	farea.	う e	Ana	ir c lytica) † (ch) ,													•

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 					(50	5) 632-0	615	NM 87401	PIT No C.O.C ∦	۵ <u></u>
	FIELD	REPO	RT:				CILITY CATIO		JOE No: _ PAGE No:	of
i coupes	LOCATION: - LOCATION: - LOCATION: -			-rà=		Trece	ment	i-Annual Zone (Event#1)	DATE STARTED. DATE FINISHED:	
SOURCE	LOCATION: - CLASSIFICAT						5		ENV RONMENTAL	K.Peire
	REMEDIATIC VISIBLE SAMPLING	DIME OBSERV	ENSION ATION	S· S				# OI		.MPLES:
FIELD	NOTES &	REMAR	(S: FAC	<u>:11.1</u> 7Y	CENTER	LOCATES) APPROX	ZYARDS	FREM	WELLHEAD.
NEARES	No. 07 COMPOSI 7AR 20 401-	SOURCE/T	YPE: ITER: IOCD: T							•
FA	CILITY	DIAG	RAM		GRID	SCALE: S	5 Acres	cell		
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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 <u>brad, a.jones@state.nm.us</u>.

Sincerely,

Brad A. Jones

Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

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

Jones, Brad A., EMNRD

From: Sent: To: Subject: Attachments: Kendra Runung <krunung@envirotech-inc.com> Friday, February 01, 2013 9:05 AM Jones, Brad A., EMNRD Correct Map for Lift Request 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





January 2013

RECEIVED OCD

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 <u>gcrabtree@envirotech-inc.com</u>

Kendra Runung Waste Coordinator <u>krunung@envirotech-inc.com</u>

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879



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

(1st Event)

Date: 1/23/13 Entire Report Reviewed By:

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.

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879 envirotech inccom aboratory@envirotech inccom

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



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

	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/	oc	Date Reported:	01-09-13				
Laboratory Number:	64044	QU	Date Sampled:	N/A				
Sample Matrix:	Methylene Chlo	rido	Date Received:		N/A			
•	•	lide						
Preservative:	N/A		Date Analyzed:		01-08-13			
Condition:	N/A		Analysis Reques	sted:	ТРН			
	I-Çal 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/k	(9)	Concentration		etection Lim	ĨĒ			
Gasoline Range C5 - C10		ND		0.2				
Diesel Range C10 - C28		ND		0.1				
Total Petroleum Hydrocarbon	s	ND						
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference A	ccept Rang	ē			
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.

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





Client:	Envirotech	Project #:	03	037-0006
Sample ID:	Cell 8	Date Repo	rted: 01-	-11-13
Laboratory Number:	64056	Date Samp	oled: 01-	-03-13
Chain of Custody:	15046	Date Recei	ived: 01-	-04-13
Sample Matrix:	Soil	Date Analy	zed: 01-	-10-13
Preservative:	Cool	Date Extra	cted: 01-	-07-13
Condition:	Intact	Analysis R	equested: BT	ΈX
		Dilution:	50	
			Det.	
		Concentration	Limit	
Parameter		(ug/Kg)	(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				

Surrogate Red	coveries:	Parameter	Percent Recovery
		Fluorobenzene	149 %
		1,4-difluorobenzene	134 %
		Bromochlorobenzene	79.5 %
References:	Method 5 Decembe	030B, Purge-and-Trap, Test Methods for E er 1996.	Evaluating Solid Waste, SW-846, USEPA,
		021B, Aromatic Volatile Organics, Test Me December 1996.	ethods for Evaluating Solid Waste, SW-846
Comments:	Landfa	rm 2 2013 Semi-Annual Treatmen	t Zone Monitoring (1st Event)



Client:	N/A	P	roject #:	N/.	A				
Sample ID:	0110BCAL QA/QC	; D	ate Reported:	01-11-13					
Laboratory Number:	64044	D	ate Sampled:	N/A					
Sample Matrix:	Soil	-	ate Received:	N/A					
Preservative:	N/A		ate Analyzed:		-10-13				
Condition:	N/A		nalysis:		ΈX				
Calibration and	S S S S S S S S S S S S S S S S S S S	C	lution:	50	AND THE AND THE AND				
	(I-Cal RF:	C-Cal RF	•%Diff.	Blank	Detect: *				
Detection Limits (ug/L)	R. Starting and	Accept: Range 0-15%		Conc.	🐨 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				
			0.000						
o-Xylene Duplicate Conc. (ug/Kg) Benzene Toluene	1.2985E-05	ND	0.00	ccept Range	Detect. Limit				
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene	<u>Sample</u> ND	Duplicate		ccept Range*/	Detect. Limit				
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	ND 49.4 ND 41.4 ND Sample	Duplicate ND 45.2 ND 37.8 ND	%Diff * A 0.00 0.09 0.00 0.09 0.00	CCCEPT Range* 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery	Detect Limit 10 10 10 10 10 10				
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	Sample ND 49.4 ND 41.4 ND Sample ND	Duplicate ND 45.2 ND 37.8 ND Amount Spiked S 2500	%Diff A 0.00 0.09 0.00 0.09 0.00 piked Sample 2120	CCEPT Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 84.8	Detect. Limi 10 10 10 10 10 10 Accept Range				
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	ND 49.4 ND 41.4 ND Sample ND 49.4	Duplicate ND 45.2 ND 37.8 ND Amount Spiked S 2500 2500	%Diff A 0.00 0.09 0.00 0.09 0.00 piked Sample 2120 2280	CCCEPT Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 84.8 89.4	Detect, Limit 10 10 10 10 10 10 30 46 - 148				
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene Ethylbenzene	ND 49.4 ND 41.4 ND Sample ND 49.4 ND	Duplicate ND 45.2 ND 37.8 ND Amount Spiked S 2500	%Diff A 0.00 0.09 0.00 0.09 0.00 piked Sample 2120	CCEPT Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 84.8	Detect. Limi 10 10 10 10 10 10 Accept Range				
Duplicate Conc. (ug/Kg) Benzene	ND 49.4 ND 41.4 ND Sample ND 49.4	Duplicate ND 45.2 ND 37.8 ND Amount Spiked S 2500 2500	%Diff A 0.00 0.09 0.00 0.09 0.00 piked Sample 2120 2280	CCCEPT Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 84.8 89.4	Detect, Limit 10 10 10 10 10 10 30 46 - 148				

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.

5796 US Highway 64, Farmington, NM 87401

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



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)



15046

CHAIN OF CUSTODY RECORD

Client: Envisatech	piect Name / Locatio	on: 1 Tosa	and Fasi	m tz nOt	Sni Tria	. m	on it C la	orin St E	y Nen	+)	Al Al	NALY	rsis 113	/ PAI	RAME	ETER	RS		<u>-</u>				
Email results to: Kendera Runu	ina		molor Namo:	Pei		-)				- 12 L.	b 1										
Client Phone No.:	\sum	Cli	ent No.: 0303	7-c	•		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals He	Cation / Anion		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE				Sample Cool	Sample Intact		
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Volume Intainers	Pr HgCl ₂	HCI	ive	TPH (I	ВТЕХ	, VOC	RCRA	Cation	ВСI	TCLP	CO Ta	трн (CHLORIDE				Samp	Samp
Cell 12	1-3+3	15:40	04054 P301011-01A	14	ozJac	ł		X	χ	Х		X					Х	X				\times	X
Cell 7	1-3-13	15:49	64055 P301011-07 A 64056	140	2 Jar	-		X	Х	Х		X					Х		ada	lect		\times	X
Cell 8		10,00	1201011-0517	140	z Jao			Х	X	Х									pe	Ld		\times	X
Ce1113	1-3-13	16:10	64057 P301011-0417	1 4oz	Jas			Х	Х	\times	-	X					Х		1 1 1	1 3	3	\times	X
Ce 11 18	1-3-13	16:20	64058 P301011-05A	140	z Jar	ł		$\left \right\rangle$	\mathbb{X}	Х			\nearrow	\frown	\frown		/	T	ð	B		X	X
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Relinquished by: (Signature)	hay	Kent.		1-3-3	6:45	Recei	ved b			<u>∤</u> ∩_ (ure)	70 (<u>ي</u>				<u> </u>		<u>.</u>		[1] 	4113	7	40
Sample Matrix	-															•							-
Soil 🗹 Solid 🗌 Sludge 🗋	Aqueous 🗌	Other 🗌		:				_								-							
Sample(s) dropped off after f		·	E		envi Analy						rong	o C(01 • 1	abor	raton	@	úroto	ch in				



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 (1st Event)

Date: 1/23/13 Entire Report Reviewed By:

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.

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



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



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	

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)

5796 US Highway 64, Farmington, NM 87401





EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

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. Limít (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	40.0	0.1
Fotal 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)

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



Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	0108TCAL QA/C		Date Reported:		01-09-13
•			•		
Laboratory Number:	64044		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		01-08-13
Condition:	N/A		Analysis Reque	sted:	ТРН
				% ^I Difference	Accept. Range
Gasoline Range C5 - C10	01-08-13	9.9960E+02		0.04%	0 - 15%
Diesel Range C10 - C28	01-08-13	9.9960E+02	1.0000E+03	0.04%	0 - 15%
	-				2
Blank Conc. (mg/L-mg/l	<u>\9)}}</u>	Concentration		Detection Lim	
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbor	IS	ND			
Duplicate Conc. (mg/Kg)	Samole	Duñlicata	% Difference?		3
		······································	المربعين والمربعة المرتبع والمستحد المراجع ومشاهلاتهم	a	
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 14	Date Report	ted:	01-11-13
Laboratory Number:	64046	Date Sampl	ed:	01-03-13
Chain of Custody:	15045	Date Receiv	ved:	01-04-13
Sample Matrix:	Soil	Date Analyz	zed:	01-10-13
Preservative:	Cool	Date Extrac	ted:	01-07-13
Condition:	Intact	Analysis Re	equested:	BTEX
		Dilution:		50
			Det.	
		Concentration	Limit	
Parameter		(ug/Kg)	(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	
			10.0	

Surrogate Recoveries:		Parameter	Percent Recovery
····-		Fluorobenzene	95.5 %
		1,4-difluorobenzene	94.3 %
		Bromochlorobenzene	94.1 %
References: Method Decem			Evaluating Solid Waste, SW-846, USEPA,
		021B, Aromatic Volatile Organics, Test Me December 1996.	ethods for Evaluating Solid Waste, SW-846
Comments:	Landfa	rm 2 2013 Semi-Annual Treatmen	t Zone Monitoring (1st Event)

5796 US Highway 64, Farmington, NM 87401

envirotech inccom

ry@envirotech=inccom



Client:	Envirotech	Project #:		03037-0006
Sample ID:	Cell 20	Date Repo	rted:	01-11-13
Laboratory Number:	64052	Date Samp	bled:	01-03-13
Chain of Custody:	15045	Date Recei	ived:	01-04-13
Sample Matrix:	Soil	Date Analy	zed:	01-10-13
Preservative:	Cool	Date Extra	cted:	01-07-13
Condition:	Intact	Analysis R	equested:	BTEX
·		Dilution:		50
			Det.	
		Concentration	Limit	
Parameter		(ug/Kg)	(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				

Surrogate Recoveries:		Parameter	Percent Recovery
		Fluorobenzene	106 %
		1,4-difluorobenzene	135 %
		Bromochlorobenzene	86.7 %
References:	Method 5 Decembe	030B, Purge-and-Trap, Test Methods for E er 1996.	valuating Solid Waste, SW-846, USEPA,
		021B, Aromatic Volatile Organics, Test Me December 1996.	ethods for Evaluating Solid Waste, SW-846.
Comments:	Landfa	rm 2 2013 Semi-Annual Treatmen	t Zone Monitoring (1st Event)





Client:	N/A	P	roject #:	N//	۹.
Sample ID:	0110BCAL QA/QC		ate Reported:	01-	-11-13
Laboratory Number:	64044	D	ate Sampled:	N//	4
Sample Matrix:	Soil	D	ate Received:	N//	4
Preservative:	N/A		ate Analyzed:		-10-13
Condition:	N/A		nalysis:	BT	ΈX
مرور می مرور می اور می ورو بر اور اور اور اور اور اور اور اور اور او			lution:	50	
Calibration and	I-Cal RE: WWW	C-Cal RF:	/ %Diff.	Blank	Detect
Detection Limits (ug/L)	cept. Range 0-15%		Conc 1	<u>غ (Limit</u>
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
him-vitore			0.000	ND	0.2
o-Xylene Duplicate Conc: (ug/Kg)		مىسىمى خىرى (يەغۇرىنى) - بۇ 1991-ي	→ %Diff. ↔A	ccept Range	an an dalar san tana a san a san
o-Xylene Duplicate Conc? (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene					Detect: Limit 10 10 10 10 10 10
o-Xylene Duplicate Conc? (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc? (ug/Kg)	Sample ND 49.4 ND 41.4 ND Sample A	Duplicate ND 45.2 ND 37.8 ND	0.00 0.09 0.00 0.09 0.00 0.09 0.00	CCEPt Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery	10 10 10 10 10 Accept Range
o-Xylene Duplicate Conc? (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc? (ug/Kg)	Sample ND 49.4 ND 41.4 ND Sample A ND	Duplicate ND 45.2 ND 37.8 ND mount Spiked S	0.00 0.09 0.00 0.09 0.00 0.09 0.00	CCEPT Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 84.8	10 10 10 10 10 Accept Range 39 - 150
o-Xylene Duplicate Conc? (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc? (ug/Kg)	Sample ND 49.4 ND 41.4 ND 41.4 ND 41.4 ND 41.4 ND 49.4	Duplicate ND 45.2 ND 37.8 ND	0.00 0.09 0.00 0.09 0.00 0.09 0.00	CCEPt Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery	10 10 10 10 10 Accept Range
o-Xylene Duplicate Conc? (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc? (ug/Kg)	Sample ND 49.4 ND 41.4 ND Sample A ND	Duplicate ND 45.2 ND 37.8 ND mount Spiked S	0.00 0.09 0.00 0.09 0.00 0.09 0.00	CCEPT Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 84.8	10 10 10 10 10 Accept Range 39 - 150
o-Xylene Duplicate Conc? (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc? (ug/Kg) Benzene Toluene	Sample ND 49.4 ND 41.4 ND 41.4 ND 41.4 ND 41.4 ND 49.4	Duplicate ND 45.2 ND 37.8 ND mount Spiked S 2500 2500	0.00 0.09 0.00 0.09 0.00 0.00 0.00	CCEPT Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 84.8 89.4	10 10 10 10 10 Accept Range 39 - 150 46 - 148

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.

5796 US Highway 64, Farmington, NM 87401

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

nvirotech

@envirotech-inc.com



Client: Envirotech Project #: 03037-0006 Sample ID: Cell 14 Date Reported: 01-16-13 64046 Lab ID#: Date Sampled: 01-03-13 Sample Matrix: Soil Date Received: 01-10-13 Preservative: Cool 01-15-13 Date Analyzed: Condition: Intact Chain of Custody: 15045

Parameter

Concentration (mg/Kg)

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)

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





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)

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



15045

CHAIN OF CUSTODY RECORD

Client: Envisotech	on: Landfarm Raitorin					(15+ Event), ANALYSIS / PARAMETERS															
Email results to: Kerdra Runnr	Peire				015)	8021)	3260)	22]							
Client Phone No.:	37-0006					BTEX (Method	Method 1	RCRA 8 Metals + 20	/ Anìon		with H/P	Table 910-1	(418.1)	RIDE			e Cool	Sample Intact			
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Volume ontainers		ervative ICI (coo	TPH (N	втех	VOC (RCRA	Cation		TCLP	CO Ta	TPH (CHLORID			Sample	Samp
Cell 15	1-3-13	14:12	104044 19301010-01A	140	oz.Jao		<u> </u>	X	X								X			X	X
Cell 10	1-3-13	14:18	124045 12301010-021	140	oz Jar		<u>X</u>	X	Х		Х					X					
Cell 14	1-3-13	14:27	64046 P301010-0317 64047	ſ	<u> </u>	1 1	X	X	\mathbf{X}			_									
Cell 9	1-3-13	14:36	13000-04A	1 1 1 1	z Jar		X	X	Х		X					X	- I (addu 1111	1.1		
Cell 4	1-3-13	14:45	P301010-0517	140	zcho		X	X	X		X					X			-		
Cell 6		1	164049 P301010-06A	140	22 Jar		X	X	X		X				•	X		<u>۳</u>],	d'h d'h		
Cell 16			P301010-0717	140	z Jar	-	Ň	X	X		X					X		ć.	72		
Cell 19	1-3-13		64051 P301010-0817	140:	<u>z Jac</u>		X	X	Χ		X				`	X					
Cell 20	1-3-13	15:25	64053 P <u>3010-0517</u> 64053	1402	- Jas		<u>X</u>	Х	Х												
Cell 17	1-3-13	5:33	104053 19301010-1017	1402	zJar	-	X	X	X		X					X	1				┥┛┥
Relinquished by: (Signature)	f ll	k -		Date	Time	Receive	d by: (S	ignati			Ċ		A.	$\overline{\mathbf{A}}$	T	6/1	\$		Date	• T	ime
	May	Pette		1-3-13	+ <u> </u>	U	hii	A		<u>po</u>	l			ρũ	トク	Kond	krc-	<u> </u>	141	3/7	<u>:40</u>
Relinquished by: (Signature)	0					Receive	d by: (Si	ignati	ııe)	V											
Sample Matrix			<u> </u>												•••						
Soil 🗹 Solid 🗋 Sludge 🗌	Aqueous 🗌	Other 🗌																			
Sample(s) dropped off after		·	ff area.		env Anai										••			ah in r		~ 	







