NM1 - 11____

APPROVALS

YEAR(S):

_2015 - 2017____

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen Cabinet Secretary David R. Catanach, Division Director
Oil Conservation Division



Matthias Sayer Deputy Cabinet Secretary

August 28, 2017

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

E: 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 August 23, 2017 and received August 28, 2017, to grant approval to apply an additional six-inch lift to the following cell(s): Cells 15, 17, and 58.

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 Brad Jones on my staff at (505) 476-3487 or <u>brad.a.jones@state.nm.us</u>.

Sincerely,

Jim Griswold

Environmental Bureau Chief

JG/baj

cc: OCD District III Office, Aztec



RECEIVED OCD

2017 AUG 28 P 2: 50

August 23, 2017

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

RE: ENVIROTECH'S REQUEST FOR ADDITIONAL LIFTS AT CELL 15, 17, AND 58 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 cells 15, 17, and 58 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 request to follow the requirement in NMAC 19.15.36.15D and the OCD approval dated April 10, 2017, all cells must pass laboratory analysis less than 2500 mg/Kg, TPH (GRO, DRO, ORO) and 1000 mg/Kg chlorides prior to adding an additional lift. 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 cells (#15, 17, and 58) have passed analysis for total petroleum hydrocarbons and chlorides (see attached Laboratory Results). The TPH and chloride results are reported in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

Regarding the parameters found in our permit, the following cubic yard amount and depth of the treatment zone for the five (5) acre cells up to this time are provided below:

Cell 15: 5692 cy (~8")

Cell 17: 12472 cy (~18")

Cell 58: 12035 cy (~18")

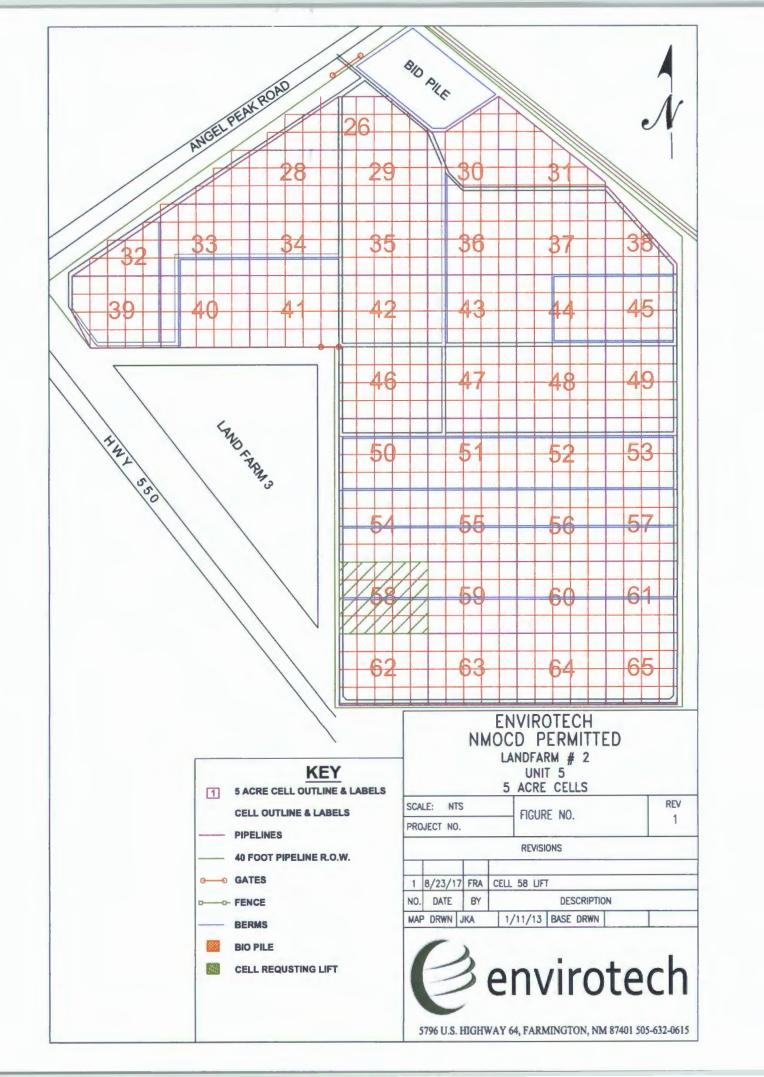
Thank you for your consideration in this matter. If you have any questions or require additional information, please do not hesitate to contact our office at (505) 632-0615.

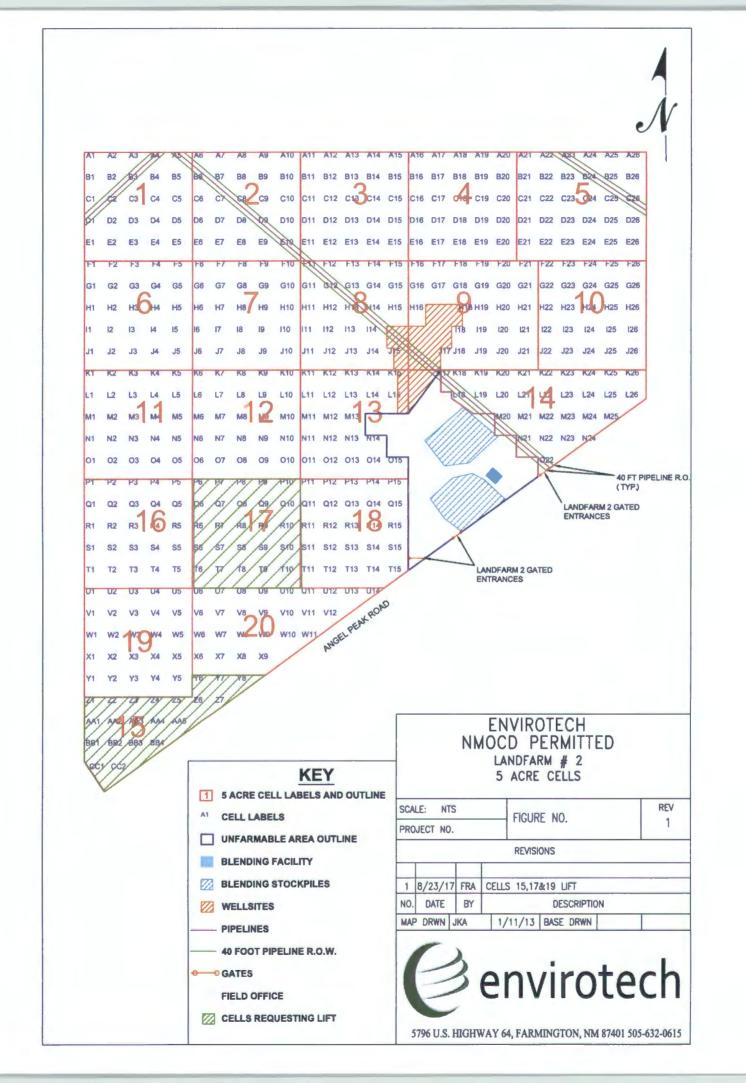
Respectfully submitted, Envirotech, Inc.

Greg Crabtree

Environmental Manager

gcrabtree@envirotech-inc.com







Analytical Report

Report Summary

Client: Envirotech

Chain Of Custody Number:

Samples Received: 8/18/2017 2:38:00PM

Job Number: [none]

Work Order: P708055

Project Name/Location: Semi-Ann. Trtmt Zone

Event2 LF 2-5

Report Reviewed By:	Walter Hinder	Date:	8/22/17	
6	Walter Hinchman, Laboratory Director		-	
	- TO	Date:	8/22/17	

Tim Cain, Quality Assurance Officer

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



Envirotech 5796 US HWY 64

Farmington NM, 87401

Project Name:

Semi-Ann. Trtmt Zone Event2 LF 2-5

Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:07

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 62 LF 2-5	P708055-01A	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
	P708055-01B	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
Cell 58 LF 2-5	P708055-02A	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
	P708055-02B	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.



Project Name:

Semi-Ann. Trtmt Zone Event2 LF 2-5

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:07

Cell 62 LF 2-5 P708055-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	50	-150	1734004	08/21/17	08/21/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8015D	
Diesel Range Organics (C10-C28)	1030	25.0	mg/kg	1	1734002	08/21/17	08/21/17	EPA 8015D	
Oil Range Organics (C28-C40+)	745	50.0	mg/kg	L	1734002	08/21/17	08/21/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	50	-150	1734004	08/21/17	08/21/17	EPA 8015D	
Surrogate: n-Nonane		122 %	50	-200	1734002	08/21/17	08/21/17	EPA 8015D	
Anions by 300.0									
Chloride	75.7	20.0	mg/kg	1	1734003	08/21/17	08/21/17	EPA 300.0	

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5796 US Highway 64, Farmington, NM 87401

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

envirosech-inc.com laboratory - envirotech-inc.com

Page 3 of 10



Project Name:

Scmi-Ann. Trtmt Zone Event2 LF 2-5

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:07

Cell 58 LF 2-5 P708055-02 (Solid)

		Reporting	33-02 (50	,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	.1	1734004	08/21/17	08/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	Strong Strong and Stro	94.7 %	50-	150	1734004	08/21/17	08/21/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8015D	
Diesel Range Organics (C10-C28)	312	25.0	mg/kg	ŧ	1734002	08/21/17	08/21/17	EPA 8015D	
Oil Range Organics (C28-C40+)	423	50.0	mg/kg	I	1734002	08/21/17	08/21/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	50~	150	1734004	08/21/17	08/21/17	EPA 8015D	
Surrogate: n-Nonane		106 %	50-	200	/734002	08/21/17	08/21/17	EPA 8015D	
Anions by 300.0									
Chloride	211	20.0	mg/kg	1	1734003	08/21/17	08/21/17	EPA 300.0	



Envirotech 5796 US HWY 64 Farmington NM, 87401 Project Name:

Project Manager:

Semi-Ann. Trtmt Zone Event2 LF 2-5

Project Number:

Felipe Aragon

Reported: 22-Aug-17 15:07

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Prepared & Analyzed: 21-Aug-17			Reporting		Spike	Source		%REC		RPD	
Prepared & Analyzed: 21-Aug-17	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Prepared & Analyzed: 21-Aug-17	Patch 1774004 Purge and Tran FDA 5020A										
Part										-	
ND	Blank (1734004-BLK1)				Prepared &	. Analyzed:	21-Aug-1	7			
ND 0.10	Benzene										
No	Toluene										
No.	Ethylbenzene		0.10								
No	p,m-Xylene	ND	0.20	49							
No	o-Xylene	ND	0.10								
No.	Total Xylenes	ND	0.10								
Prepared & Analyzed: 21-Aug-17	Total BTEX	ND	0.10								
Renzene 4.69	Surrogate; 4-Bromochlorobenzene-PID	7.71		-8	8.00		96.4	50-150			
Toluene 4.67 0.10 " 5.00 93.4 70-130 Final Properties French P	LCS (1734004-BS1)				Prepared &	. Analyzed:	21-Aug-1	7			
Solution	Benzene	4.69	0.10	mg/kg	5.00		93.9	70-130			
Prepared Page Pag	Toluene	4.67	0.10	ref.	5.00		93.4	70-130			
Source: P708052-01	Ethylbenzene	4.65	0.10		5.00		93.0	70-130			
13.8 0.10 15.0 92.1 70-130	p,m-Xylene	9.26	0.20		10.0		92.7	70-130			
Source: Prosestate 13.6 13.0	o-Xylene	4.54	0.10		5.00		90.9	70-130			
Matrix Spike (173404-MS1) Source: P708052-01 Prepared & Analyzed: 21-Aug-17	Total Xylenes	13.8	0.10		15.0		92.1	70-130			
Serizene 4.64 0.10 mg/kg 5.00 ND 92.9 54.3-133	Surrogate: 4-Bromochlorobenzene-PID	7.73		a	8.00		96.7	50-150			
Toluene 4.60 0.10 " 5.00 ND 92.0 61.4-130 Ethylbenzene 4.60 0.10 " 5.00 ND 92.0 61.4-133 p.mXylene 9.14 0.20 " 10.0 ND 91.5 63.3-131 p.xXylene 4.50 0.10 " 5.00 ND 90.0 63.3-131 Total Xylenes 13.6 0.10 " 15.0 ND 91.0 63.3-131 Surrogate: 4-Bromochlorobenzene-PID 7.78 " 8.00 97.2 50-150 Matrix Spike Dup (1734004-MSD1) Source: P708052-01 Prepared & Analyzed: 21-Aug-17 Benzene 4.52 0.10 mg/kg 5.00 ND 90.5 54.3-133 2.66 20 Toluene 4.48 0.10 " 5.00 ND 89.6 61.4-130 2.64 20 Ethylbenzene 4.47 0.10 " 5.00 ND 89.5 61.4-133 2.70 20 p.mXylene 8.90 0.20 " 10.0 ND 89.5 63.3-131 2.75 20 p.mXylene 4.38 0.10 " 5.00 ND 87.6 63.3-131 2.75 20 Total Xylenes 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20	Matrix Spike (1734004-MS1)	Sou	ırce: P708052-	01	Prepared &	Analyzed:	21-Aug-1	7			
Columbia	Benzone	4.64	0.10	mg/kg	5.00	ND	92.9	54.3-133			
Survey S	Toluene	4.60	0.10	**	5.00	ND	92.0	61.4-130			
Surrogate: 4-Bromochforobenzene-PID Source: P708052-01 Prepared & Analyzed: 21-Aug-17	Ethylbenzene	4.60	0.10	of	5.00	ND	92.0	61.4-133			
Total Xylenes 13.6 0.10 15.0 ND 91.0 63.3-131	p,m-Xylene	9.14	0.20	96	10.0	ND	91.5	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID 7.78 8.00 97.2 50-150	o-Xylene	4.50	0.10	**	5.00	ND	90.0	63.3-131			
Matrix Spike Dup (1734004-MSD1) Source: P708052-01 Prepared & Analyzed: 21-Aug-17 Benzene 4.52 0.10 mg/kg 5.00 ND 90.5 54.3-133 2.66 20 Tolucne 4.48 0.10 " 5.00 ND 89.6 61.4-130 2.64 20 Ethylbenzene 4.47 0.10 " 5.00 ND 89.5 61.4-133 2.70 20 0.m-Xylene 8.90 0.20 " 10.0 ND 89.0 63.3-131 2.75 20 Total Xylenes 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20	Total Xylenes	13.6	0.10		15.0	ND	91.0	63.3-131			
Benzene 4.52 0.10 mg/kg 5.00 ND 90.5 54.3-133 2.66 20 Toluene 4.48 0.10 " 5.00 ND 89.6 61.4-130 2.64 20 Ethylbenzene 4.47 0.10 " 5.00 ND 89.5 61.4-133 2.70 20 n,m-Xylene 8.90 0.20 " 10.0 ND 89.0 63.3-131 2.75 20 o-Xylene 4.38 0.10 " 5.00 ND 87.6 63.3-131 2.74 20 Total Xylenes 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20	Surrogate: 4-Bromochlorobenzene-PID	7.78			8.00		97.2	50-150			
Toluene 4.48 0.10 " 5.00 ND 89.6 61.4-130 2.64 20 Ethylbenzene 4.47 0.10 " 5.00 ND 89.5 61.4-133 2.70 20 n.m-Xylene 8.90 0.20 " 10.0 ND 89.0 63.3-131 2.75 20 -Xylene 4.38 0.10 " 5.00 ND 87.6 63.3-131 2.74 20 Total Xylenes 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20	Matrix Spike Dup (1734004-MSDI)	Sou	rce: P708052-	01	Prepared &	Analyzed:	21-Aug-1	7			
1.00 1.00	Benzene	4.52	0.10	mg/kg	5.00	ND	90.5	54.3-133	2.66	20	
8.90 0.20 " 10.0 ND 89.0 63.3-131 2.75 20 co-Xylene 4.38 0.10 " 5.00 ND 87.6 63.3-131 2.74 20 co-Xylene 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20 co-Xylene 13.0 ND 88.5 63.3-131 2.75 20 co-Xylene 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20 co-Xylene 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20 co-Xylene 13.0 ND 88.5 63.3-131 2.75	Toluene	4.48	0.10	19	5.00	ND	89.6	61.4-130	2.64	20	
5.70 0.20 10.0 ND 87.6 63.3-131 2.75 20 52-Xylene 4.38 0.10 " 5.00 ND 87.6 63.3-131 2.74 20 Total Xylenes 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20	Ethylbenzene	4.47	0.10	10	5.00	ND	89.5	61.4-133	2.70	20	
Total Xylenes 13.3 0.10 " 15.0 ND 88.5 63.3-131 2.75 20	p,m-Xylene	8.90	0.20		10.0	ND	89.0	63.3-131	2.75	20	
ORII AYICHCS 13.5 0.10 15.0 19D 66.5 05.5-151 2.75 20	o-Xylene	4.38	0.10	-	5.00	ND	87.6	63.3-131	2.74	20	
Turrogate: 4-Bromochforobenzene-PID 7.79 " 8.00 97.4 50-150	Total Xylenes	13.3	0.10	*	15.0	ND	88.5	63.3-131	2.75	20	
	Surrogate: 4-Bromochforobenzene-PID	7.79		H	8.00		97.4	50-150			

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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

enviroteth-inciden laboratory enviroteth inciden

Page 5 of 10



Project Name:

Semi-Ann. Trtmt Zone Event2 LF 2-5

5796 US HWY 64 Farmington NM, 87401

Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:07

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 1734002 - DRO Extraction EPA 3570										
Blank (1734002-BLK1)				Prepared 8	Analyzed:	21-Aug-17	7			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	84							
Surrogate: n-Nonane	58.7			50.0		117	50-200			
LCS (1734002-BS1)	Prepared & Analyzed: 21-Aug-17									
Diesel Range Organics (C10-C28)	465	25.0	mg/kg	500		92.9	38-132			
Surrogale: n-Nonane	50.4		*	50,0		101	50-200			
Matrix Spike (1734002-MS1)	Sour	rce: P708052-	-01	Prepared &	Analyzed:	21-Aug-17	,			
Diesel Range Organics (C10-C28)	499	25.0	mg/kg	500	ND	99.8	38-132			
Surrogate: n-Nonane	49.9		m	50.0		99.8	50-200			
Matrix Spike Dup (1734002-MSD1)	Sour	rce: P708052 -	-01	Prepared &	Analyzed:					
Diesel Range Organics (C10-C28)	497	25.0	mg/kg	500	ND	99.4	38-132	0.377	20	
Surrogate: n-Nonane	51.3		-	50.0		103	50-200			



Project Name:

Semi-Ann. Trtmt Zone Event2 LF 2-5

5796 US HWY 64 Farmington NM, 87401 Project Number:

Reported:

Project Manager: Felipe Aragon

22-Aug-17 15:07

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 1734004 - Purge and Trap EPA 5030A				~						
Blank (1734004-BLK1)				Prepared &	k Analyzed:	21-Aug-17				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		*	8.00		97.0	50-150			
LCS (1734004-BS1)				Prepared &	Analyzed:	21-Aug-17	1			
Gasoline Range Organics (C6-C10)	54.9	20.0	mg/kg	60.9		90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		w	8.00		97.5	50-150			
Matrix Spike (1734004-MS1)	Sou	rce: P708052-	01	Prepared &	Analyzed:	21-Aug-17				
Gasoline Range Organics (C6-C10)	54.8	20.0	mg/kg	60.9	ND	90.0	70-130			
Surrogute: 1-Chloro-4-fluorobenzene-FID	7.93		49	8,00		99.1	50-150			
Matrix Spike Dup (1734804-MSD1)	Sou	rce: P708052-	01	Prepared &	Analyzed:	21-Aug-17				
Gasoline Range Organics (C6-C10)	53.5	20.0	mg/kg	60.9	ND	87.8	70-130	2.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-F1D	7.96		10"	8.00		99.4	50-150			



Chloride

Project Name:

3390

Semi-Ann. Trunt Zonc Event2 LF 2-5

3150

250

97.5 80-120

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:07

20

3.42

Anions by 300.0 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1734003 - Anion Extraction EPA 300.0										
Blank (1734003-BLK1)				Prepared &	Analyzed:	21-Aug-17	1			
Chloride	ND	20.0	mg/kg							
LCS (1734003-BS1)				Prepared &	Analyzed:	21-Aug-17	7			
Chloride	259	20.0	mg/kg	250		104	90-110			
Matrix Spike (1734003-MS1)	Sour	rce: P708056-	01	Prepared & Analyzed: 21-Aug-17						
Chloride	3510	20.0	mg/kg	250	3150	145	80-120		*	SPK2
Matrix Spike Dup (1734003-MSD1)	Sou	rce: P708056-	01	Prepared &	: Analyzed:	21-Aug-17	,			

20.0 mg/kg



Project Name:

Semi-Ann. Trtmt Zone Event2 LF 2-5

Felipe Aragon

5796 US HWY 64

Project Number:

Reported:

Farmington NM, 87401 Project Manager:

22-Aug-17 15:07

Notes and Definitions

SPK2

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or

greater than the spike concentration.

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

Project I	nformati	on						Chain of Cu	stody										F	age	of	
	Somi Ann		+ Ame 6	venta L	Fals	Report due	Report At	ttention		Lab	WO	_		e On Job	-	ber		TAT D 3D	RCRA	PA Progra	SDWA	
	Manager					Attention:				P	708	305	5	0	4		2070					
Address					- 66	Address:								nalys	is an	nd Me	thod				ite	
City, Sta	te, Zip			-	- 1	City, State,	<u>Zip</u>			8015	8015									NM CO	NM CO UT AZ	
Phone: Email:					- 8	Phone:				3		8021	9	9	300					1		
Time	Date		1		- 8	Email:			Lab	ONO	OMO.	5	by 8.	38	des	18						
Sampled	Sampled	Matrix	No Centainers	Sample I	D				Number	DRO/ORO	GRO/DRO by	BTEX by (VOC by 8260	Metals 6010	Chlorides 300.0	TPH 418.1				Ren	narks	
1040	8/18	5	2		Cell	62	LF	2-5		X	X	X			×					402 4	lass	
1056	88	5	2		(0)	1 58			2	X	X	×			×					402	ela	
									, and													
Addition	al Instru	ctions:				Vis	W.P	in col	9/00													
				of this sampi unds for legal		that tempering wit		mislabelling the		n, date i	or					-			be received on it but less than 6			
	ed by: (Sig		Date	8/17	Time 1438		by Nigrand		Date 3/18/	17	Time	1 20	8	Pace	ilvor	d on i		Lab U	se Only			
Relinquish	ed by: (Sign	nature)	Date		Time	Received	by: (Signatur	re)	Date		Time	7 //		Til.		np °C	_ 1	2		<u>T3</u>		
Sample Ma	trix: \$ - Soll,	Sd - Solid, S	ig - Sludge, /	- Aqueous,	O - Other				Containe	r Typ	e: E -	glass							s, v - VOA			
Note: Samp	les are disca	rded 30 da	ys after resu	its are repor	ted unless o	ther arrangemen			oles will be re	turne	d to di	ient or	dispo	sed of	at the						the above	
		-					,															
1	en	vir	ote	eci	1		5796 US Highwa	ay 64, Farmington, Wi	187401				20.	(505) 632	2-0615	Fx (505) 6	5)2-1665			100	Smith, high	
	A	nalyti	cal Lai	orator	У			65 Mercado Street, Su		(0 81301			-			Fr (800) 3				incat'		



Analytical Report

Report Summary

Client: Envirotech

Chain Of Custody Number:

Samples Received: 8/18/2017 2:39:00PM

Job Number: [none] Work Order: P708057

Project Name/Location: 2017 Semi-Ann Treatement Zone LF #2

Report Reviewed By:

Walter Hinchman, Laboratory Director

Date: 8/22/17

Tim Cain, Quality Assurance Officer

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.



Project Name:

2017 Semi-Ann Treatement Zone LF #2

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:09

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 15 LF2	P708057-01A	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
	P708057-01B	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
Cell 19 LF2	P708057-02A	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
	P708057-02B	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
Cell 17 LF2	P708057-03A	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.
	P708057-03B	Soil	08/18/17	08/18/17	Glass Jar, 4 oz.

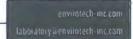
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Page 2 of 11



Envirotech 5796 US HWY 64 Project Name:

2017 Semi-Ann Treatement Zone LF #2

Reported:

Farmington NM, 87401

Project Number:

Project Manager: Felipe Aragon

22-Aug-17 15:09

Cell 15 LF2 P708057-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1.	1734004	08/21/17	08/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	50	-150	1734004	08/21/17	08/21/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8015D	
Diesel Range Organics (C10-C28)	111	25.0	mg/kg	1	1734002	08/21/17	08/21/17	EPA 8015D	
Oil Range Organics (C28-C40+)	90.8	50.0	mg/kg	1	1734002	08/21/17	08/21/17	EPA 8015D	
Surragate: 1-Chloro-t-fluorobenzene-FID		100 %	50	-150	1734004	08/21/17	08/21/17	EPA 8015D	
Surrogate: n-Nonane		108 %	50	-200	1734002	08/21/17	08/21/17	EPA 8015D	
Anions by 300.0									
Chloride	258	20.0	mg/kg	1	1734003	08/21/17	08/21/17	EPA 300.0	





Project Name:

2017 Semi-Ann Treatement Zone LF #2

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:09

Cell 19 LF2

P708057-02	15-22-27
F / 11805 /-02	1201101

		P7080	57-02 (50	olia)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Surrogate; 4-Bromochlorobenzene-PID		94.3 %	50	-150	1734004	08/21/17	08/21/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8015D	
Diesel Range Organics (C10-C28)	50.0	25.0	mg/kg	1	1734002	08/21/17	08/21/17	EPA 8015D	
Dil Range Organics (C28-C40+)	70.1	50.0	mg/kg	1	1734002	08/21/17	08/21/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	50	-150	1734004	08/21/17	08 21/17	EPA 8015D	
Surrogate: n-Nonane		103 %	50	-200	1734002	08/21/17	08-21/17	EPA 8015D	
Anions by 300.0									
Chloride	120	20.0	mg/kg	1	1734003	08/21/17	08/21/17	EPA 300.0	



Envirotech 5796 US HWY 64 Farmington NM, 87401 Project Name:
Project Number:

2017 Semi-Ann Treatement Zone LF #2

Project Manager: Felipe Aragon

Reported: 22-Aug-17 15:09

Cell 17 LF2 P708057-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	50-	-150	1734004	08/21/17	08/21/17	EPA 8021B	
Nonhalogenated Organics by 8015								_	
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1734004	08/21/17	08/21/17	EPA 8015D	
Diesel Range Organics (C10-C28)	126	25.0	mg/kg	1	1734002	08/21/17	08/21/17	EPA 8015D	
Oil Range Organics (C28-C40+)	117	50.0	mg/kg	1	1734002	08/21/17	08/21/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	50-	-150	1734004	08/21/17	08/21/17	EPA 8015D	
Surrogate: n-Nonane		97.3 %	50-	-200	1734002	08/21/17	08/21/17	EPA 8015D	
Anions by 300.0									
Chloride	67.2	20.0	mg/kg	1	1734003	08/21/17	08/21/17	EPA 300.0	



Project Name:

2017 Semi-Ann Treatement Zone LF #2

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:09

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 1734004 - Purge and Trap EPA 50	30A									
Blank (1734004-BLK1)				Prepared &	E Analyzed:	21-Aug-1	7			
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10								
Ethylbenzene	ND	0.10	94							
p,m-Xylene	ND	0.20								
p-Xylene	ND	0.10								
Total Xylenes	ND	0.10	89							
Total BTEX	ND	0.10								
Surrogate: 4-Bromocklorobenzene-PID	7.71			8.00		96.4	50-150			
LCS (1734004-BS1)				Prepared &	k Analyzed:	21-Aug-1	7			
Benzene	4.69	0.10	mg/kg	5.00		93.9	70-130			
Toluene	4.67	0.10	100	5.00		93.4	70-130			
Ethylbenzene	4.65	0.10		5.00		93.0	70-130			
p,m-Xylene	9.26	0.20		10.0		92.7	70-130			
>-Xylene	4.54	0.10	96	5.00		90.9	70-130			
Total Xylenes	13.8	0.10		15.0		92.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.73		89	8.00		96.7	50-150			
Matrix Spike (1734004-MS1)	Sourc	e: P708052-	-01	Prepared &	k Analyzed:	21-Aug-1	7			
Benzene	4.64	0.10	mg/kg	5.00	ND	92.9	54.3-133			
Toluene	4.60	0.10	M	5.00	ND	92.0	61.4-130			
Ethylbenzene	4.60	0.10	99	5.00	ND	92.0	61.4-133			
p,m-Xylene	9.14	0.20	60	10.0	ND	91.5	63.3-131			
o-Xylene	4.50	0.10	77	5.00	ND	90.0	63.3-131			
Total Xylenes	13.6	0.10	•	15.0	ND	91.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.78			8.00		97.2	50-150			
Matrix Spike Dup (1734004-MSD1)	Source	e: P708052-	-01	Prepared &	k Analyzed:	21-Aug-1	7			
Benzene	4.52	0.10	mg/kg	5.00	ND	90.5	54.3-133	2.66	20	
Tolucne	4.48	0.10	to the	5.00	ND	89.6	61.4-130	2.64	20	
Ethylbenzene	4,47	0.10	10	5.00	ND	89.5	61.4-133	2.70	20	
ı,m-Xylene	8.90	0.20	**	10.0	ND	89.0	63.3-131	2.75	20	
>-Xylene	4.38	0.10	10	5.00	ND	87.6	63.3-131	2.74	20	
Total Xylenes	13.3	0.10	10	15.0	ND	88.5	63.3-131	2.75	20	
Surrogate: 4-Bromochlarobenzene-PID	7.79		10	8.00		97.4	50-150			

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5796 US HWY 64

Farmington NM, 87401

Project Name:

2017 Semi-Ann Treatement Zone LF #2

Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:09

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 1734002 - DRO Extraction EPA 3570										
Blank (1734002-BLK1)				Prepared &	k Analyzed:	21-Aug-17				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	ot .							
Surrogate: n-Nonane	58.7			50.0		117	50-200			
LCS (1734002-BS1)				Prepared &	ž Analyzed:	21-Aug-17				
Diesel Range Organics (C10-C28)	465	25.0	mg/kg	500		92.9	38-132			
Surrogate: n-Nonane	50.4		**	30.0		101	50-200			
Matrix Spike (1734002-MS1)	Sou	rce: P708052-	-01	Prepared &	Analyzed:	21-Aug-17				
Diesel Range Organics (C10-C28)	499	25.0	mg/kg	500	ND	99,8	38-132			
Surrogate: n-Nonane	49.9			50.0		99.8	50-200			
Matrix Spike Dup (1734002-MSD1)	Sou	rce: P708052-	01	Prepared &	k Analyzed:	21-Aug-17				
Diesel Range Organics (C10-C28)	497	25.0	mg/kg	500	ND	99.4	38-132	0.377	20	
Surrogate: n-Nonane	5/.3		10	50.0		103	50-200			

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Project Name:

2017 Semi-Ann Treatement Zone LF #2

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager;

Felipe Aragon

Reported: 22-Aug-17 15:09

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 1734004 - Purge and Trap EPA 5030A					 .						
Blank (1734004-BLK1)				Prepared &	Analyzed:	21-Aug-17					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		D	8.00		97.0	50-150				
LCS (1734004-BS1)				Prepared &	Analyzed:	21-Aug-17					
Gasoline Range Organics (C6-C10)	54.9	20.0	mg/kg	60.9		90.1	70-130				
Surrogate: I-Chloro-4-fluorobenzene-FID	7.80		*	8.00		97.5	50-150				
Matrix Spike (1734004-MS1)	Sou	rce: P708052 -	01	Prepared &	Analyzed:	21-Aug-17					
Gasoline Range Organics (C6-C10)	54.8	20.0	mg/kg	60.9	ND	90.0	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		•	8.00		99.1	50-150				
Matrix Spike Dup (1734004-MSD1)	Sou	rce: P708052-	01	Prepared &	Analyzed:	21-Aug-17					
Gasoline Range Organies (C6-C10)	53.5	20.0	mg/kg	60.9	ND	87.8	70-130	2.40	20		
Surrogate: I-Chloro-4-fluorobenzene-FID	7.96		•	8.00		99.4	50-150				

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Envirotech 5796 US HWY 64 Project Name: Project Number: 2017 Semi-Ann Treatement Zone LF #2

Reported:

Farmington NM, 87401

Project Manager:

Felipe Aragon

22-Aug-17 15:09

Anions by 300.0 - Quality Control **Envirotech Analytical Laboratory**

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

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1734003 - Anion Extraction EPA 300.0										
Blank (1734003-BLK1)				Prepared &	Analyzed:	21-Aug-17				
Chloride	ND	20.0	mg/kg							
LCS (1734003-BS1)				Prepared &	Analyzed:	21-Aug-17		_		
Chloride	259	20.0	mg/kg	250		104	90-110			
Matrix Spike (1734003-MS1)	Source	P708056-	01	Prepared &	Analyzed:	21-Aug-17				
Chloride	3510	20.0	mg/kg	250	3150	145	80-120			SPK2
Matrix Spike Dup (1734003-MSD1)	Source	P708056-	01	Prepared &	Analyzed:	21-Aug-17				
Chloride	3390	20.0	mg/kg	250	3150	97.5	80-120	3.42	20	

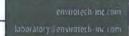
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Project Name:

2017 Semi-Ann Treatement Zone LF #2

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Felipe Aragon

Reported: 22-Aug-17 15:09

Notes and Definitions

SPK2

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or

greater than the spike concentration.

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

Project In	formation	on				Chain of Custody				dy							Page				of _	
Client: E						Report Attention				100	13	La	b Use	On	ily			TA	TAT EPA Program			am
Project:	2017 50	mi.Am	Trobbe	ent zone	140	Report				Lab	WO	H	J	lob.	Num	ber	1	1D	3D	RCRA	CWA	SDWA
Project N	Manager:	Felip	e Ara	2500			on: Spic			P	tog	9 53		C	ノビ	213		/				
Address:				J	_ 11	Addres							Ar	aly:	sis an	d Me	ethoc	1				ate
City, Stat	e, Zip				- 10	City, St				55	55										NM CC	UT A
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Time Sampled	Date Sampled	Matrix	No Containers	Sample II	D				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chlorides 300.0	TPH 418.1					Ret	narks
ogo	8/18	5	2	(211	15	U	=2		ス	X	X	-	**	X						402	Glaz
0945	8/3	5	2	C	ell	19	L	F2	2	X	X	X			X						402	G/02
000	818	5	2		Cell	H	L	FZ	3	メ	人	X			X						402	Ghss
															-							
Addition	al Instru	ictions:	1			v:	5 40	in con	2106	1												
				ty of this sample		re that tamper	ring with or intent	ionally mislabellin	ng the sample location	n, date	10										ice the day they °C on subseque	
Relinquish	ed by: (Sig	nature)	Date	1	Time 1420	Rec	eived by Cia		Date 6/14/1	2	Time	1 79		200	elve	don	ice:	Lā	b.Us	e Only N		
Relinquish			Date		Time		eived by: (Sign	nature)	Date	7	Time			T1	Ten	חסש	G L	T2			<u> 13</u>	
				A - Aqueous,																, v - VO/		



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State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Tony Delfin Acting Cabinet Secretary **David R. Catanach, Division Director**Oil Conservation Division



November 10, 2016

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 November 3, 2016 and received by OCD via email on November 10, 2016, to remove approximately 28,790 cubic yards of remediated soils from Cells 30 and 33; 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 30 and 33 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 30 and 33 for the stabilization and/or solidification of incoming drilling mud, tank bottoms, and sludge with the following conditions:

Cells 30 and 33:

- Envirotech shall control blowing dust and reduce the potential of fugitive dust emissions while transferring the remediated soils from Cells 30 and 33 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 30 and 33 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 November 10, 2016 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 30 and/or 33.

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 30 and/or 33 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 Brad Jones on my staff at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

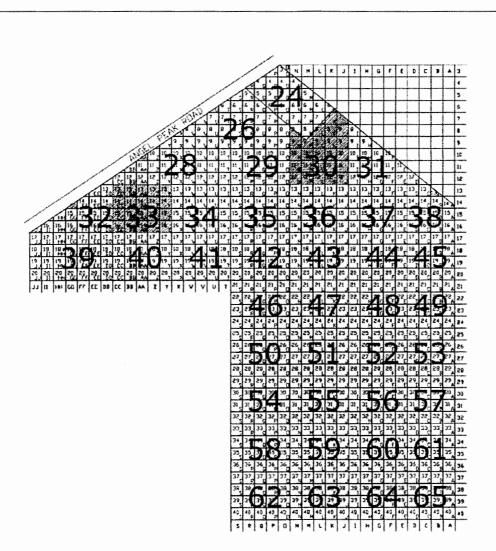
Jim Griswold

Environmental Bureau Chief

JG/baj

Attachment: Facility Map (dated January 11, 2013)

cc: OCD District III Office, Aztec



N

	\Box	N	
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ENVIROTECH NMOCD PERMITED LANDFARM # 2 UNIT 5

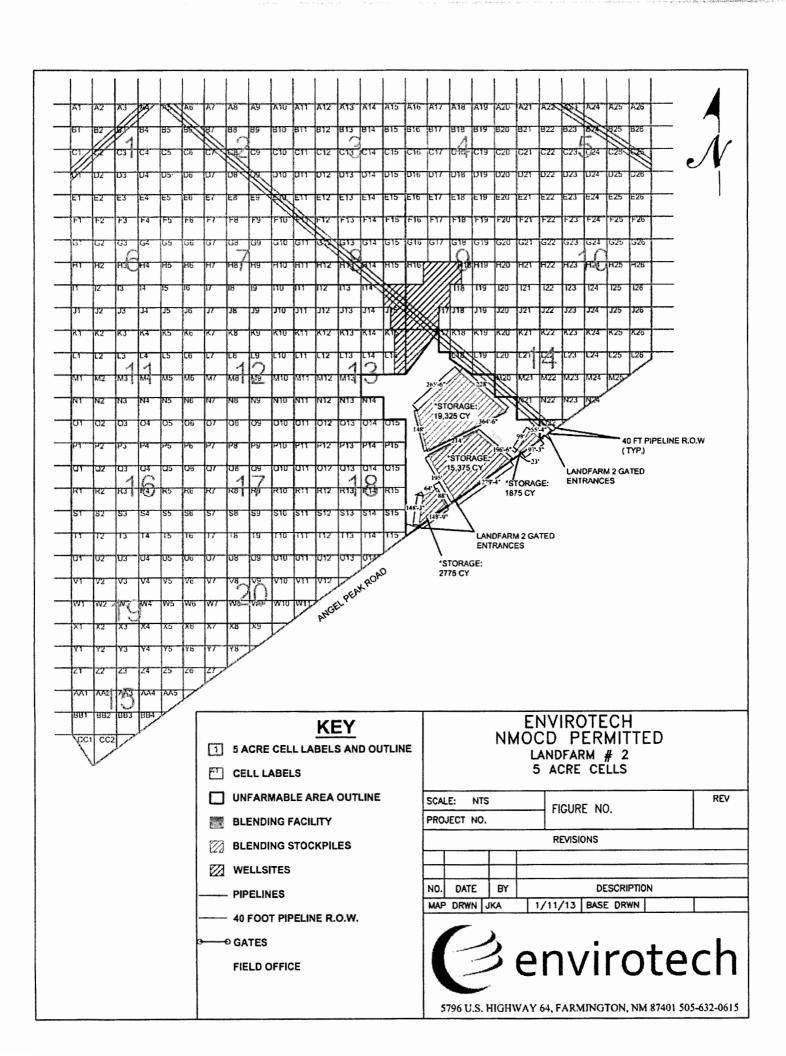
6275 ACRE CELL

GO CELL REQUESTING LIFT

SCAL	.E: 1=1	100,	FIGURE NO.	REV
PRO	JECT NO).	FIGURE NO.	
			REVISIONS	
NO.	DATE	BY	DESCRIPTION	
MAP	DRWN	JMK	12-7-09 BASE DRWN	



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



Jones, Brad A., EMNRD

From:

enviro admin <enviroadmin@envirotech-inc.com>

Sent:

Thursday, November 10, 2016 2:34 PM

To:

Jones, Brad A., EMNRD

Cc:

Greg Crabtree; land farm

Subject:

Envirotech's Request for Scraping 5-Acre Cells

Attachments:

Scraping Request.pdf

Good Afternoon---

Please find attached Envirotech's Request for Scraping 5-Acre Cells. A hard copy will follow by mail.

Please let me know if you need anything else.

Sincerely,

Glenna Lawrence

Environmental Administrator

Envirotech, Inc. | 5796 US Highway 64 | Farmington, NM 87401 505.632.0615 Office | 505.632.1865 Fax | 505.947.8326 Cell



http://envirotech-inc.com/



November 3, 2016

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 30 AND 33 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Envirotech hereby requests permission to scrape 5-acre cells 30 and 33 located within Envirotech's Landfarm #2 Unit 5 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 30 and 33 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 30 and 33. 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 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 30 and 33, 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 to prove the prior Landfarm operations did not contaminate the vadose zone by comparing it to the background concentrations or labratory PQL. Envirotech is currently working on establishing these concentrations for backgrounds. 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 30: 13,866 cy (~23") Cell 33: 14,924 cy (~24")

Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption and plan for future acceptance volume.

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

Eric Liese

Landfarm Coordinator

landfarm@envirotech-inc.com



Analytical Report

Report Summary

Client: Envirotech

Chain Of Custody Number:

Samples Received: 2/10/2016 4:45:00PM

Job Number: Landfarm OH Work Order: P602013

Project Name/Location: Landfarm 2 Unit 5 1st Qtr

Treatment Zone Sampling

Tim Cain, Laboratory Manager

Entire Report Reviewed By:

2/29/16

Date:

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.

Page 1 of 37



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager: Landfarm OH Greg Crabtree Reported: 29-Feb-16 17:43

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 49	P602013-01A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 45	P602013-02A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 48	P602013-03A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 44	P602013-04A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 47	P602013-05A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 43	P602013-06A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 46	P602013-07A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 42	P602013-08A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 41	P602013-09A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 34	P602013-10A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 40	P602013-11A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 33	P602013-12A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 39	P602013-13A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 32	P602013-14A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 28	P602013-15A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 26	P602013-16A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 29	P602013-17A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 30	P602013-18A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 36	P602013-19A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 37	P602013-20A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 38	P602013-21A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 35	P602013-22A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.
Section 31	P602013-23A	Soil	02/10/16	02/10/16	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, HM 87401

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

envirotech inc.com laboratory@envirotech-inc.com



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401

Project Number: Project Manager: Landfarm OH Greg Crabtree Reported: 29-Feb-16 17:43

Section 33 P602013-12 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1608007	02/15/16	02/18/16	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1608007	02/15/16	02/18/16	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	ı	1608007	02/15/16	02/18/16	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1608007	02/15/16	02/18/16	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1608007	02/15/16	02/18/16	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1608007	02/15/16	02/18/16	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1608007	02/15/16	02/18/16	EPA 8021B	
Surragate: 4-Bromochlorobenzene-PID	1974 Production of 17 to 61 to 46 to 11 to 11 to 10 to	101 %	50-	150	1608007	02/15/16	02/18/16	EPA 8021B	NAME OF THE OWNER, WHEN THE OW
Nonhalogenated Organics by 8015		*****					***************************************		
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1608007	02/15/16	02/18/16	EPA 8015D	
Diesel Range Organics (C10-C28)	78.8	25.0	mg/kg	1	1608014	02/15/16	02/18/16	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	50-	150	1608007	02/15/16	02/18/16	EPA 8015D	
Surrogate: n-Nonane		79.7 %	50	200	1608014	02/15/16	02/18/16	EPA 8015D	
Cation/Anion Analysis									
Chloride	84.3	20.0	mg/kg	1	1608023	02/19/16	02/22/16	EPA 300.0	



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64

Project Number:

Landfarm OH

Reported:

Farmington NM, 87401

Project Manager:

Greg Crabtree

29-Feb-16 17:43

Section 30 P602013-18 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	ŧ	1608007	02/15/16	02/23/16	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1608007	02/15/16	02/23/16	FPA 8021B	
Ethylbenzene	NĐ	0.10	mg/kg	1	1608007	02/15/16	02/23/16	EPA 8021B	
p,m-Xylene	NĐ	0.20	mg/kg	1	1608007	02/15/16	02/23/16	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1608007	02/15/16	02/23/16	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1608007	02/15/16	02/23/16	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1608007	02/15/16	02/23/16	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7%	50-	150	1608007	02/15/16	02/23/16	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1608007	02/15/16	02/23/16	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	ı	1608014	02/15/16	02/19/16	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8%	50-	150	1608007	02/15/16	02/23/16	EPA 8015D	
Surrogate: n-Nonane		86.8 %	.50-	200	1608014	02/15/16	02/19/16	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	20.0	mg/kg	1	1608023	02/19/16	02/22/16	EPA 300.0	

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5796 US Highway 64, Farmington, NM 87401

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

laboratory senvirotech-inc.com

envirotech incicom



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401

Project Number: Project Manager: Landfarm OH Greg Crabtree Reported: 29-Feb-16 17:43

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 1608007 - Purge and Trap EPA 5	030A							·····		
Blank (1608007-BLK1)				Prepared:	5-Feb-16 /	Analyzed:	17-Feb-16			
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	*							
Ethylbenzene	ND	0.10	•							
p,m-Xylene	ND	0.20	,							
o-Xylene	ND	0.10	*							
Total Xylenes	ND	0.10								
Total BTEX	ND	0.10	**							
Surrogate: 4-Bromochlorobenzene-PID	0.159		*	0.160	***************************************	99.3	50-150			
LCS (1608007-BS1)				Prepared: 1	5-Feb-16 /	Analyzed:	18-Feb-16			
Benzene	9.85	0.10	mg/kg	10.0		98.5	70-130			
Toluene	9.79	0.10	•	10.0		97.9	70-130			
Ethylbenzene	9,90	0.10	•	10.0		99.1	70-130			
p.m-Xylene	19.8	0,20	•	20.0		98.9	70-130			
o-Xylene	9.69	0.10		10.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	0.162		*	0.160		101	50-150			
Matrix Spike (1608007-MS1)	Sourc	e: P602013-	01	Prepared: 1	5-Feb-16 /	Analyzed:	18-Feb-16			
Benzene	10.6	0.10	mg/kg	10.0	ND	106	54.3-133			
Toluene	10.6	0.10	*	10.0	0.19	104	61.4-130			
Ethylbenzene	10.5	0.10	n	10.0	ND	106	61.4-133			
p,m-Xylene	21.2	0.20	-	20.0	0.21	105	63.3-131			
o-Xylene	10.3	0.10	-	10.0	ND	103	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	0.162		"	0.160		101	50-150			
Matrix Spike Dup (1608007-MSD1)	Sourc	e: P602 013-	01	Prepared: 1	5-Fcb-16 /	Analyzed: 1	18-Fcb-16			
Benzene	10.5	0.10	mg/kg	10.0	ND	105	54.3-133	1.08	20	
Toluene	10.5	0.10	•	10.0	0.19	103	61.4-130	0.856	20	
Ethylbenzene	10.5	0.10	•	10.0	ND	105	61.4-133	0.515	20	
p,m-Xylene	21.1	0.20	•	20.0	0.21	104	63.3-131	0.460	20	
o-Xylene	10.3	0.10	•	10.0	ND	103	63.3-131	0.181	20	
Surrogate: 4-Bromochlorobenzene-PID	0.161		*	0.160		100	50-150			
•										

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5796 US Highway 64, Farmington, NM 87401

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Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401 Project Number:

Landfarm OH

Reported:

Project Manager:

Greg Crabtree

29-Feb-16 17:43

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 1608010 - Purge and Trap EPA 5030A										
Blank (1608010-BL/K1)				Prepared: 1	5-Feb-16 A	Analyzed: 2	3-Feb-16			
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	-							
Ethylbenzene	ND	0.10	-							
p,m-Xylene	ND	0.20	•							
o-Xylene	ND	0.10	•							
Total Xylenes	ND	0.10	*							
Total BTEX	ND	0.10	•							
Surrogate: 4-Bromochlorobenzene-PID	0.160		-	0.160	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100	50-150			
LCS (1608010-BS1)				Prepared: 1	5-Feb-16	Analyzed: 2	23-Feb-16			
Benzene	10.7	0.10	mg/kg	10.0		107	70-130			
Toluene	10.6	0.10	•	10.0		106	70-130			
Ethylbenzene	10.7	0.10	-	10.0		107	70-130			
p.m-Xylene	21.3	0.20	•	20.0		106	70-130			
o-Xylene	10.4	0.10	u	10.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	0.162		*	0.160		101	50-150			
Matrix Spike (1608010-MS1)	Sou	rce: P602013-	21	Prepared: 1	15-Feb-16	Analyzed: 2	23-Feb-16			
Benzene	10.6	0.10	mg/kg	10.0	ND	106	54.3-133			
Toluene	10.5	0.10	*	10.0	ND	106	61.4-130			
Ethylbenzene	10.6	0.10		10.0	ND	106	61,4-133			
p,m-Xylene	21.1	0.20	-	20.0	ND	106	63.3-131			
o-Xylene	10.4	0.10		10.0	ND	104	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	0.163	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	0.160		102	50-150			
Matrix Spike Dup (1608010-MSD1)	Sou	ırce: P602013-	-21	Prepared: 1	15-Feb-16	Analyzed: 2	23-Feb-16			
Benzene	11.0	0.10	mg/kg	10.0	ND	110	54.3-133	3.99	20	
Toluene	11.0	0.10	•	10.0	ND	110	61.4-130	4.27	20	
Ethylbenzene	11.1	0.10	•	10.0	ND	111	61.4-133	4.32	20	
p,m-Xylene	22.0	0.20	*	20.0	ND	110	63.3-131	4.15	20	
o-Xylene	10.8	0.10	4	10.0	ND	108	63.3-131	4.16	20	
Surrogate: 4-Bromachlorobenzene-PID	0.163	***************************************	#	0.160		102	50-150			

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5796 US Highway 64, Farmington, NM 87401

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

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

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

envirolech-inc.com laboratory@envirotech inc.com



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager: Landfarm OH Greg Crabtree Reported: 29-Feb-16 17:43

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 1608007 - Purge and Trap EPA 5030A										
Blank (1608007-BLK1)				Prepared: 1	5-Feb-16 /	Analyzed: 1	7-Feb-16			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-F1D	0.154		*	0.160		96.2	50-150	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
LCS (1608007-BS1)				Prepared: 1	5-Feb-16 /	Analyzed: 1	8-Feb-16			
Gasoline Range Organics (C6-C10)	115	20.0	mg/kg	106		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-F1D	0.151		*	0.160		94.1	50-150			
Matrix Spike (1608007-MS1)	Sou	rce: P602013-	01	Prepared: 1	5-Feb-16 A	Analyzed: I	8-Feb-16			
Gasoline Range Organics (C6-C10)	122	20.0	mg/kg	106	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.151		*	0.160	······································	94,2	50-150			
Matrix Spike Dup (1608007-MSD1)	Sou	rce: P602013-	01	Prepared: 1	5-Feb-16 /	Analyzed: 1	8-Feb-16			
Gasoline Range Organics (C6-C10)	118	20.0	mg/kg	106	ND	111	70-130	3.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.148			0.160		92.7	50-150			***************************************



Farmington NM, 87401

Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Proj

Project Number: Project Manager: Landfarm OH Greg Crabtree

Reported: 29-Feb-16 17:43

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 1608010 - Purge and Trap EPA 503	0A									
Blank (1608010-BLK1)				Prepared: 1	5-Feb-16	Analyzed: 2	3-Feb-16			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.144		•	0.160		90.0	50-150			
LCS (1608010-BS1)				Prepared: 1	5-Feb-16	Analyzed: 2	3-Feb-16	••••		
Gasoline Range Organics (C6-C10)	117	20.0	mg/kg	106		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.150		*	0.160		93.5	50-150	000000000000000000000000000000000000000		
Matrix Spike (1608010-MS1)	Sour	ce: P602013-	21	Prepared: 1	5-Feb-16	Analyzed: 2	3-Feb-16			
Gasoline Range Organics (C6-C10)	116	20.0	mg/kg	106	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.149		,	0.160		93.3	50-150			
Matrix Spike Dup (1608010-MSD1)	Sour	ce: P602013-	21	Prepared: 1	5-Feb-16	Analyzed: 2	3-Feb-16	A		
Gasoline Range Organics (C6-C10)	119	20.0	mg/kg	106	ND	113	70-130	2.46	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	0.147		*	0.160		91.8	50-150			

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5796 US Highway 64, Farmington, NM 87401

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

laboratory@envirotech-inc.com

envirotech inc com



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager: Landfarm OH

Greg Crabtree

Reported: 29-Feb-16 17:43

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

	Reporting		Spíko	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
50M									
			Prepared: 1	5-Feb-16 A	Analyzed: 1	7-Feb-16			
ND	25.0	mg/kg							
50.6		*	50.0		101	50-200			
11 11 11 11 11 11 11 11 11 11 11 11 11			Prepared: 1	5-Feb-16 /	Analyzed: 1	7-Feb-16			
472	25.0	mg/kg	500		94.4	38-132			
42.5		,	50.0		84.9	50-200			
Sour	ce: P602013-	01	Prepared: 1	5-Feb-16 A	Analyzed: 1	7-Feb-16			
3430	25.0	mg/kg	500	3210	43.5	38-132			
48.1		+	50.0		96.1	50-200			
Sour	ce: P602013-	01	Prepared: 1	15-Feb-16 A	Analyzed: I	8-Feb-16			
3710	25.0	mg/kg	500	3210	100	38-132	7.93	20	
50.0		7	50.0		100	50-200			
	50M ND 50.6 472 42.5 Source 3430 48.1 Source 3710	Result Limit 50M ND 25.0 50.6 472 25.0 42.5 Source: P602013-1 3430 25.0 48.1 Source: P602013-1 3710 25.0	ND 25.0 mg/kg 50.6	Result Limit Units Level	Result Limit Units Level Result	Result Limit Units Level Result %REC	Result Limit Units Level Result %REC Limits	Result Limit Units Level Result %REC Limits RPD	Result Limit Units Level Result %REC Limits RPD Limit

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envirotech inc com laboratory@envirotech inc.com



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64

Project Number:

Landfarm OH

Reported:

Farmington NM, 87401

Project Manager:

Greg Crabtree

29-Feb-16 17:43

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limít	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1608015 - DRO Extraction EPA 3550M										
Blank (1608015-BLK1)				Prepared: 1	6-Feb-16 A	Analyzed: l	9-Feb-16	***************************************		****************************
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	49,0		,,	50.0		98,0	50-200			
LCS (1608015-BS1)				Prepared: 1	6-Feb-16 /	Analyzed: 1	9-Feb-16	FMAR 100000000 1000 1000 1000 1000 1000 10		e e e edjú ac i lakej viskke ektikusi se se
Diesel Range Organics (C10-C28)	537	25.0	mg/kg	500		107	38-132			
Surrogate: n-Nonane	50.8		-	50.0		102	50-200			
Matrix Spike (1608015-MSI)	Sou	rce: P602013-	21	Prepared: 1	6-Feb-16 A	Analyzed: 1	9-Feb-16	~~~~~~~		***************************************
Diesel Range Organics (C10-C28)	691	25.0	mg/kg	500	216	95.0	38-132			
Surrogate: n-Nonane	47.3	-	*	50.0		94.6	50-200			
Matrix Spike Dup (1608015-MSD1)	Sou	rce: P602013-	21	Prepared: 1	6-Feb-16 A	Analyzed: 1	9-Feb-16			
Diesel Range Organics (C10-C28)	685	25.0	mg/kg	500	216	93.8	38-132	0.882	20	
Surrogate: n-Nonane	4 8.4	1.0.000 T. September 1000 100 (1000 1000 1000 1000 1000 100	*	50.0		96,7	50-200			

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Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401

Project Number:

Landfarm OH

Reported:

Project Manager:

Greg Crabtree

29-Feb-16 17:43

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 1608023 - Anion Extraction EPA 300.0										
Blank (1608023-BI.K1)				Prepared: 1	9-Feb-16	Analyzed: 2	2-Feb-16			
Chloride	ND	20.0	mg/kg							
LCS (1608023-BS1)				Prepared: 1	9-Feb-16	Analyzed: 2	2-Feb-16			
Chloride	475	20.0	mg/kg	500		95.0	90-110			
Matrix Spike (1608023-MS1)	Sour	ce: P602013-	01	Prepared: I	9-Feb-16	Analyzed: 2	2-Feb-16			
Chloride	502	20.0	mg/kg	500	ND	100	80-120			
Matrix Spike Dup (1608023-MSD1)	Sour	ce: P602013-	01	Prepared: 1	9-Feb-16	Analyzed: 2	2-Feb-16			
Chloride	490	20.0	mg/kg	500	ND	98.1	80-120	2.32	20	



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64

Project Number:

Landfarm OH

Reported:

Farmington NM, 87401

Project Manager:

Greg Crabtree

29-Feb-16 17:43

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 1608024 - Anion Extraction EPA 300.0		.,								
Blank (1608024-BLK1)				Prepared: 1	9-Feb-16 A	Analyzed: 2	6-Feb-16			
Chloride	ND	20.0	mg/kg							
LCS (1608024-BS1)				Prepared: 1	9-Feb-16	Analyzed: 2	6-Feb-16			
Chloride	481	20.0	mg/kg	500		96.2	90-110			
Matrix Spike (1608024-MS1)	Sour	ce: P602013-	21	Prepared: 1	9-Feb-16	Analyzed: 2	6-Feb-16			
Chloride	583	20.0	mg/kg	500	96.0	97.5	80-120			
Matrix Spike Dup (1608024-MSD1)	Sour	ce: P602013-	21	Prepared: 1	9-Feb-16 /	Analyzed: 2	6-Feb-16			
Chloride	702	20.0	mg/kg	500	96.0	121	80-120	18.5	20	SPK1

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envinitech inc.com laboratory@envirotech-inc.com



Project Name:

Landfarm 2 Unit 5 1st Qtr Treatment Zone Sampling

5796 US HWY 64 Farmington NM, 87401

Project Number: Project Manager: Landfarm OH Greg Crabtree Reported: 29-Feb-16 17:43

Notes and Definitions

SPK1

The spike recovery is outside of quality 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

Client: Enviratech		RUSH?	La	b Use Only			Ana	alysis	and Me	thod		lab (Only	
Project: Landfarm 2.5 1st Ctr.	Freamen	ナ	1d		Lab WO#									Z
Sampler: FB/SL 200	u Samp	ting	3d	PLO	2013									(s)
Phone: (505)947-9179					ob Number	8015			0.0				Lab Number	rsr
Email(s): Falynn, Felip., land	farm			llar	dfarmoly	by 8	121	1 =	, 300.				N	Ju C
Email(s): Falynn, Felips, land Project Manager: (mex Crabtner			Page	e \ of,	3 727	8	.¥ 8€	418	le b				Lab	3
Sample ID	Sample Date	Sample Time	Matrix		ontainers TYPE/Preservative	GRO/DRO	BTEX by 8021	TPH by 418.1	Chloride by					Correct Cont/Prsrv (s) Y/N
Section 49	2-10-16	10:06	S	1102/	glass/cool	1	>	Ì	2				.1	Y
Section 45		10:19							İ				2	The second secon
Section 48		10:33											3	
Section 44		10:45											4	
Section 47		10:59											5	
Section 43		11:11											b	
Section 46		11:21				***							7	
Section 42		11:34											8	
Section 41		11:48					**************************************						7	obsolvensors /
, Section 34	1	12:02											0	L.
Date Time 2 -10-16 16:43	Received	by: (Signa	ture)	Date 1645	7/10/16 **F	Rece	ived	on le	نكفر	b Use N	Only			1
Relinquished by: (Signature) Date Time	Received	d by: (Signa	ture)	Date	Time T1		_ mp °		T2			ТЗ		-
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				Container Type: g						ambe	r glass, v	- ۷0/	1	
**Samples requiring thermal preservation must be received on ice the day	or received p	acked in ice			on su	ıbsequ	ent da	iγs.						
Sample(s) dropped off after hours to a secure drop off area.	Chain of	f Custody	Notes/Billi	ng info:										
A STATE OF THE PARTY OF THE PAR											***************************************			



Client: Envirole ch		RUSH?	Lab Use Only			Ana	lysis and Method	lab Only	
Project: Landfarm 2-5 1st Gtr T Sampler: FB/SC Ze	reatmen ne Sam	et puing	1d 3d	B でつ つり3 rap.mo#	2				Lab Number Correct Cont/Prsrv (s) Y/N
Phone: (505) 947-9179	/ *			Job Number Landfarm of	8015			300.0	/Prs
Email(s): Falyon, Felipe, land Project Manager: Grape Crabberce	tarm		Page		80 50	y 8023	418.1	<u>à</u>	Lab Number t Cont/Prsrv
Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by	BTEX by 8021	трн by	Chloride	Correc
Section 40	2-10-16	12:15	S	1.40/glass/ccol	مري	1			[Y 13
Section 33		12:25		1	1	1			1z
Section 39		12:36			1	\prod			13
Section 32		12:49			\coprod	Ц			14
Section 28		เอะริธ				\coprod			15
Section 26		13:12				\coprod			16
Section 29	diseased will specify	13:25	B. Marian and A. Carlon, Co. C			Щ			
Section 30	, j	13:31							18
Section 36		13:51							
Section 37	1	14:04			1	上	<u> </u>		20上
Lay Dury Date Time 2-10-16 16:43	Receive	d by: (Signat	ure)	7/16/16 16 45 **	*Rece	ived	on lo	Lab Use Only	
Relinquished by: (Signature) Date Time	Receive	d by: (Signat	ure)	Date Time T	l VG Te	mp '	°c 4	T2	Т3
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				······································				//plastic, ag - ambe	r glass, v - VOA
**Samples requiring thermal preservation must be received on ice the di				°C on su	ppsedr	ent da	Y5.		
Sample(s) dropped off after hours to a secure drop off area.		Chain of	Custody	Notes/Billing info:					



Client: Environment		RUSH?	La	b Use Only			An	alysis a	and Me	thod		lab (Only	
Project: Land Farm 2-5 1 TGtr. Tre Sampler: FB/GL	ament t	دمه ه	1d		Lab WO#			T	П				1	N.
Sampler: FB/SU S	amplin	٩	3d	PLO	20013								ان.	(S)
Phone: (5.5) 947-9179	~			Jo	ob Number	11 2	3		0				Lab Number	rsz
Email(s): Falynn, Pelipe, Landfa	vn⁄			lan	dfarmo	11 3	2 2		300.0				N	2
Email(s): Falyon, Pelipe, landfa Project Manager. (They Crabtree			Pag	e 3 of	3		8 8	418.1	le by				Lab	10
Sample ID	Sample Date	Sample Time	Matrix		ontainers TYPE/Preservativ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BTEX by 8021	TPH by	Chloride					Correct Cont/Prsrv (s) Y/N
Section 38 Section 35 Section 31	2-90-16	14:19	S	1-402/0	lass/coo	- (1	1	1	1				ય	Υ
Section 35	1	14:39	\										22	Manual (parameter
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Relinquished by: (Signature) Date Time 10-16 Relinquished by: (Signature) Date Time Time	Received	by: (Signa	ture)	2/10/16	Time 1645	**Rec	eived	on l		Use (N	Only			
Relinquished by: (Signature) Date Time	Received	l by: (Signa	ture)	Date	Time	T1.4.		°c 4	T2_			Т3		-
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other			Container Ty					tic, ag -	ambe	r glass, v	- VO	1		
"Samples requiring thermal preservation must be received on ice the day					n 6 °C on	subseq	uent da	ays.						
Sample(s) dropped off after hours to a secure drop off area.		Chain o	f Custody	/ Notes/Bill	ing info:									
A STATE OF THE STA														



57% US Highway 64, Farmington, EULET-61

Three Springs - 65 Mercado Street, Sinte 135 Digrango, (O.\$110)



(3	envi	rot	ech
	(505) G	32-0615	(800) 362-1

879 5796 U.S. Hwy 64, Farmington, NM 87401 Project No:

COC No:

FIELD RE	PORT: REMEDIATION FACILITY CLOSURE	PAGE NO: 1 OF 1
	VERIFICATION	DATE STARTED: 9110/16
FACILITY LOCATI	ON: ENVIROTECH, INC., LANDFARM	DATE FINISHED: 3/10/16
LANDFARM FIELD): it limit 5	ENVIRONMENTAL
CELL/ SECTION:	Section 30	SPECIALIST: A Carero
SOIL	QUANTITY: DIMENSIONS:	
REMEDIATION	VISIBLE OBSERVATIONS:	
	SAMPLING PLAN:	

SAMPLE DIAGRAM GRID SCALE:

	***		Abbison Gr. rate		LA	B SAMPLES	<u> </u>
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5786 U.S. Hwy 64, Farmington, NM 87401

Project No:

COC No:

FIELD	REPORT	REMEDIAT	TON FACIL	ITY CLOSURE
CRESTAL	NEEUNI.		IUN PACIL	HI CEUDUNE

PAGE NO: 1 OF 1

VERIFICATION

DATE STARTED: 2110116

FACILITY LOCATION: ENVIROTECH, INC., LANDFARM

DATE FINISHED: 21/0/16

LANDFARM FIELD: 2 lend 5 CELLI SECTION: Section 33 **ENVIRONMENTAL**

SPECIALIST: (Garage

SOIL

QUANTITY:

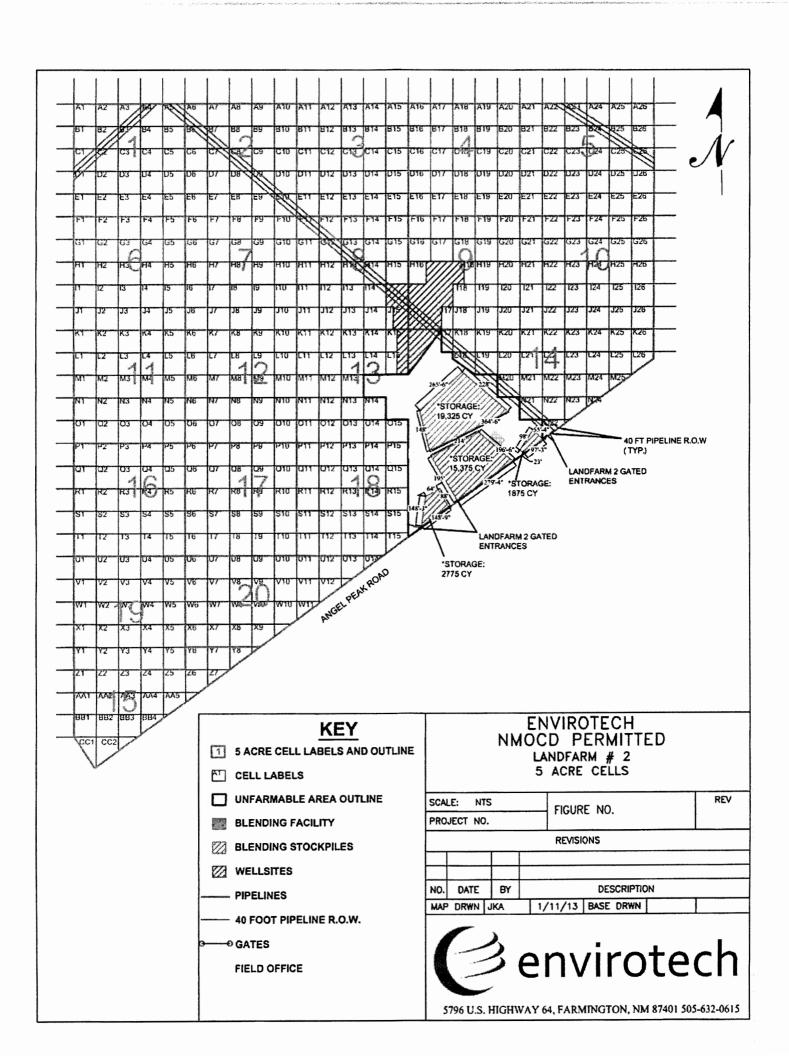
DIMENSIONS:

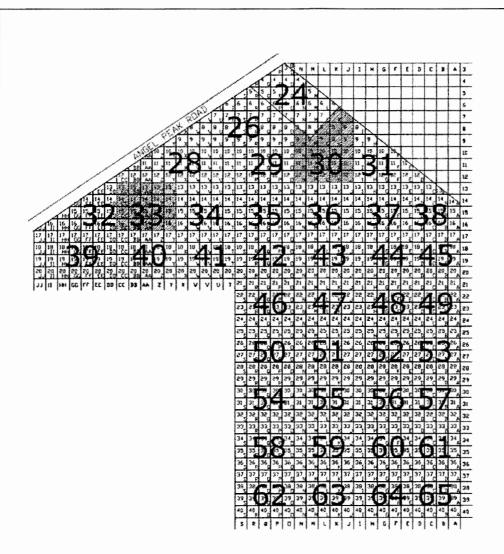
REMEDIATION VISIBLE OBSERVATIONS:

SAMPLING PLAN:

SAMPLE DIAGRAM GRID SCALE:

:				and complete of the	LA	AB SAMPLES	3
-		ger i gelt velst ig all	nugopo esta Albono	A-36	SAMPLE ID	ANALYSIS	TIME
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FGFN

ENVIROTECH NMOCD PERMITED LANDFARM # 2 UNIT 5

625 ACRE CELL

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

REV

TO CELL REQUESTING LIFT



State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



June 22, 2015

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

RE: Vadose Zone Demonstration and Additional Lift Request for Cell 11

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 June 2, 2015, to reactivate Cell 11 after sampling the vadose zone (native soils) to demonstrate that a release has not occurred in the vadose zone prior to placing soils back in to the cell for landfarming and to grant approval to apply a six-inch lift of petroleum hydrocarbon-contaminated soils for remediation. OCD's review has determined that all the conditions regarding the vadose zone sampling, from the July 30, 2014 approval have not been properly addressed and/or demonstrated.

OCD's July 30, 2014 approval "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," specified three conditions regarding sampling the vadose zone. Such conditions are as follows:

- Envirotech shall complete a vadose zone monitoring/sampling event in Cells 11 and 16
 upon the removal of the remediated soils to the original native ground surface in each
 landfarm cell.
- If the remediated soils are removed in a phased approach, Envirotech shall complete a
 vadose zone monitoring/sampling event upon the removal of the remediated soils to the
 original native ground surface within each landfarm cell.
- Envirotech shall comply with the release response provision of Paragraph (5) of Subsection E of 19.15.36.15 NMAC, if "vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations."

1220 South St. Francis Drive • Santa Fe, New Mexico 87505 Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd Envirotech, Inc. Permit NM1-011 June 22, 2015 Page 2 of 3

The conditions required Envirotech to sample the vadose zone when treatment zone soils have been removed to determine if a release has occurred. Envirotech's June 2, 2015 letter, states "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. Envirotech's demonstration was not compliant to OCD's conditions which was to assess the vadose zone to determine if a release has occurred while the soils were removed.

The second paragraph of the June 2, 2015 cover letter states "Cell 11 has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethlybenzene, total xylenes, and chloride..." The June 2, 2015 submittal included correspondence dated April 26, 1993 from Envirotech that provided facility background data, but in the cover letter Envirotech did not recommend using the data from Cell F-17, which states "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-4 which we believe is more representative of the actual average background of the facility." OCD's review of the background data set and the current laboratory results for Cell 11 demonstrates that the current laboratory analysis of Cell 11 was assessed with reporting limits that exceed the 1993 background limits and/or PQLs. If the 1993 data for Cell F-17 is not valid, then the comparison to chlorides cannot be completed.

The laboratory analysis submitted for Cell 11 demonstrated Gasoline Range Organics (C₆-C₁₀) and Diesel Range Organics (C₁₀-C₂₈). Part 36 specifies EPA Method 418.1 as the required vadose zone analyses for TPH. OCD is willing to accept an equivalent method to EPA Method 418.1 that is capable of demonstrating a carbon range from C₆ to C₃₆ (e.g. Method 8015 for GRO/DRO/MRO or ORO). The analysis for Cell 11 is incomplete and the comparison for this demonstration cannot be completed.

In order for Envirotech to proceed, certain issues regarding the facility background need to be resolved. Currently, Envirotech does not have the complete background data to perform the vadose zone assessment as required by OCD's July 30, 2014 approval, Permit NM1-011, and Part 36. The April 26, 1993 background data set (if the results for Cell F-17 are not considered, as recommended by Envirotech) provides results for the following 9 analytes: total petroleum hydrocarbons (TPH) by EPA Method 418.1, arsenic, barium, cadmium, calcium, chromium, lead, mercury, selenium, and silver. To complete the five year vadose zone assessment, background needs to be established for copper, iron, manganese, and zinc. If follow up and/or future quarterly vadose zone monitoring demonstrate exceedances, then the additional analysis will be needed to complete the comparison to the 46 analtyes required by 19.15.36.15.E(5) NMAC. Please submit a background sampling plan to OCD under a separate cover, for OCD's consideration of approval to update the existing background data set and complete vadose zone assessment.

OCD is unable to approve Cell 11 for an additional lift based upon the information provided in the June 2, 2015 request. Please submit a background sampling plan to OCD under a separate cover, for OCD's consideration of approval to update the existing background data set and complete the vadose zone assessment required of OCD's July 30, 2014 approval within 45 days of the date of this letter. Please ensure that the laboratory's reporting limit does not exceed the established background and/or PQLs for all future vadose zone sampling events.

Envirotech, Inc. Permit NM1-011 June 22, 2015 Page 3 of 3

OCD has implemented some new policies for submittal. For future submittals, please include a cover letter from the owner/operator, on the owner's/operator's company letterhead, that recognizes the owner/operator has reviewed the submittal, signed by the owner/operator. Also, please provide an updated facility map, for each individual sampling event, that identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained. 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 2, 2015

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 11 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 11, located at #43 Road 7175, South of Bloomfield, New Mexico. On July 30, 2014, the NMOCD approved the removal of approximately 15,000 cubic yards of remediated soil from Cell 11; 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 11. 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 11 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.

Greg Crabtree

Environmental Manager

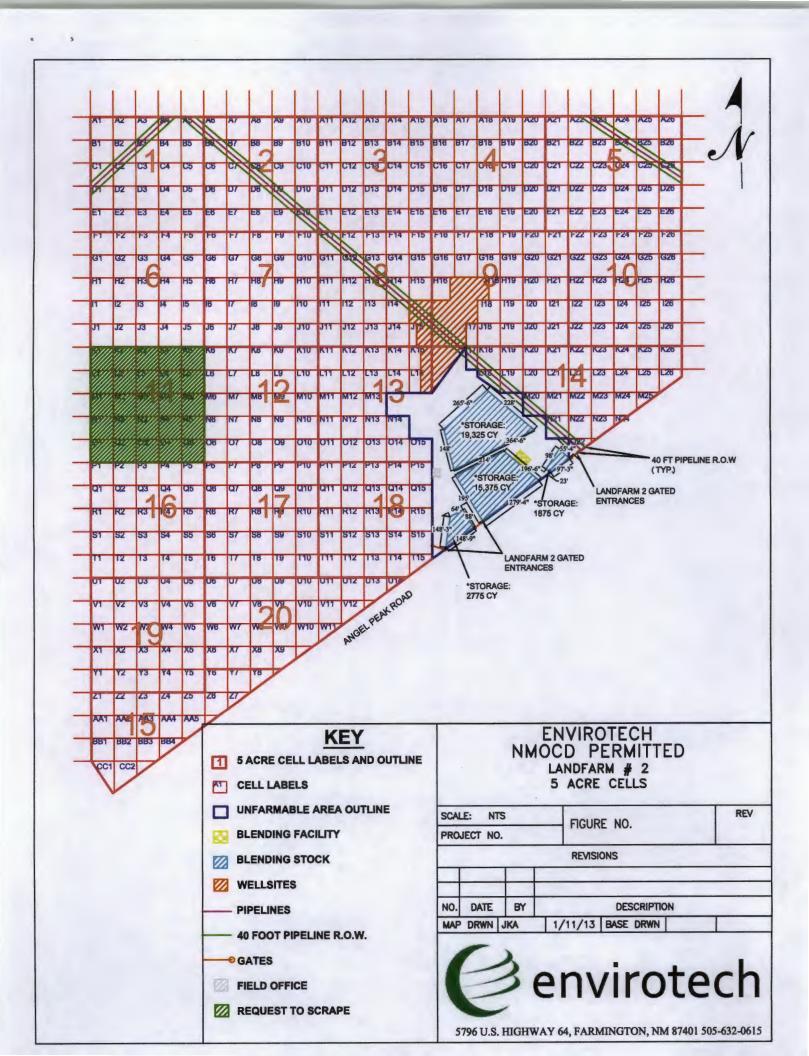
gcrabtree@envirotech-inc.com

Kendra Runung

Waste Coordinator

krunung@envirotech-inc.com

-6 P 12: 05





Analytical Report

Report Summary

Client: Envirotech

Chain Of Custody Number:

Samples Received: 5/29/2015 9:59:00AM

Job Number: Landfarm OH

Work Order: P505077

Project Name/Location: Landfarm 2 Closure

Sampling

Entire Report Reviewed By:

7,0

Tim Cain, Laboratory Manager

6/2/15

Date:

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 HWY 64

Farmington NM, 87401

Project Name:

Landfarm 2 Closure Sampling

Project Number: Project Manager: Landfarm OH Felipe Aragon Reported:

02-Jun-15 11:53

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
11-C1	P505077-01A	Soil	05/27/15	05/29/15	Glass Jar, 4 oz.



Project Name:

Landfarm 2 Closure Sampling

5796 US HWY 64

Farmington NM, 87401

Project Number: Project Manager: Landfarm OH Felipe Aragon

Reported:

02-Jun-15 11:53

11-C1 P505077-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		114%	50	-150	1522011	05/29/15	05/29/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.80	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.8	mg/kg	1	1522010	05/29/15	05/29/15	EPA 8015D	
Surrogate: o-Terphenyl		146 %	50	-200	1522010	05/29/15	05/29/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		101 %	50	-150	1522011	05/29/15	05/29/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	11.0	8.98	mg/kg	0.9	1522012	05/29/15	05/29/15	EPA 300.0	



Project Name:

Landfarm 2 Closure Sampling

5796 US HWY 64

Farmington NM, 87401

Project Number: Project Manager: Landfarm OH

Felipe Aragon

Reported:

02-Jun-15 11:53

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 1522011 - Purge and Trap EPA 50	030A									
Blank (1522011-BLK1)				Prepared: 2	9-May-15	Analyzed:	01-Jun-15			
Benzene	ND	0.09	mg/kg							
Toluene	ND	0.09								
Ethylbenzene	ND	0.09								
p,m-Xylene	ND	0.18								
o-Xylene	ND	0.09								
Total Xylenes	ND	0.09	*							
Total BTEX	ND	0.09								
Surrogate: 4-Bromochlorobenzene-P1D	0.474		н	0.364		130	50-150			
LCS (1522011-BS1)				Prepared: 2	9-May-15	Analyzed:	01-Jun-15			
Benzene	19.1	0.10	mg/kg	19.3		98.8	75-125			
Toluene	17.3	0.10	*	19.3		89.8	70-125			
Ethylbenzene	17.9	0.10		19.3		92.7	75-125			
p,m-Xylene	39.4	0.19		38.6		102	80-125			
o-Xylene	18.6	0.10		19.3		96.3	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.474		"	0.386		123	50-150			
Matrix Spike (1522011-MS1)	Sou	rce: P505074-	01	Prepared: 2	9-May-15	Analyzed:	01-Jun-15			
Benzene	21.4	0.09	mg/kg	18.5	ND	116	75-125			
Toluene	19.3	0.09		18.5	ND	104	70-125			
Ethylbenzene	19.9	0.09	*	18.5	ND	107	75-125			
p,m-Xylene	42.8	0.19		37.1	ND	115	80-125			
o-Xylene	21.0	0.09		18.5	ND	113	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.433		"	0.371		117	50-150			
Matrix Spike Dup (1522011-MSD1)	Sou	rce: P505074-	01	Prepared: 2	9-May-15	Analyzed:	01-Jun-15			
Benzene	22.9	0.10	mg/kg	20.2	ND	113	75-125	6.78	15	
Toluene	21.1	0.10	*	20.2	ND	104	70-125	8.99	15	
Ethylbenzene	21.8	0.10	*	20.2	ND	108	75-125	9.31	15	
p,m-Xylene	48.2	0.20		40.4	ND	119	80-125	11.9	15	
o-Xylene	23.0	0.10	*	20.2	ND	114	75-125	9.26	15	
Surrogate: 4-Bromochlorobenzene-PID	0.461	***************************************	BF	0.404		114	50-150			

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envirotech-inc.com

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

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

laboratory@envirotech-inc.com



5796 US HWY 64

Farmington NM, 87401

Project Name:

Landfarm 2 Closure Sampling

Project Number:

Landfarm OH

Reported:

Project Manager:

Felipe Aragon

02-Jun-15 11:53

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
, (rooms		Cites	Level	resun	7 MALEC	Laterita	MD	Lunis	210163
Batch 1522010 - DRO Extraction EPA 3550M										
Blank (1522010-BLK1)				Prepared &	Analyzed:	29-May-15	5			
Diesel Range Organics (C10-C28)	ND	23.6	mg/kg							
Surrogate: o-Terphenyl	33.0		H	37.8		87.3	50-200			
LCS (1522010-BS1)				Prepared &	Analyzed:	29-May-15	5			
Diesel Range Organics (C10-C28)	538	23.8	mg/kg	475		113	38-132			
Surrogate: o-Terphenyl	32.8		**	38.0		86.2	50-200			
Matrix Spike (1522010-MS1)	Son	rce: P505074-	01	Prepared &	Analyzed:	29-May-15	5			
Diesel Range Organics (C10-C28)	527	24.3	mg/kg	486	ND	108	38-132			
Surrogate: o-Terphenyl	33.9		n	38.9		87.3	50-200			
Matrix Spike Dup (1522010-MSD1)	Sou	rce: P505074-	01	Prepared &	Analyzed:	29-May-15	5			-
Diesel Range Organics (C10-C28)	514	27.3	mg/kg	454	ND	113	38-132	2.36	20	
Surrogate: o-Terphenyl	33.9		29	36.4		93.1	50-200			



Project Name:

Landfarm 2 Closure Sampling

5796 US HWY 64

Project Number:

Landfarm OH

Reported:

Farmington NM, 87401

Project Manager:

Felipe Aragon

02-Jun-15 11:53

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 1522011 - Purge and Trap EPA 5030A							-			
Blank (1522011-BLK1)				Prepared: 2	29-May-15	Analyzed:	01-Jun-15			
Gasoline Range Organics (C6-C10)	ND	9.11	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.414		n	0.364		114	50-150			
LCS (1522011-BS1)				Prepared: 2	29-May-15	Analyzed:	01-Jun-15			
Gasoline Range Organics (C6-C10)	255	9.66	mg/kg	257	1	99.2	80-120			
Surrogate: 4-Bromochlorobenzene-F1D	0.415		19	0.386		107	50-150			
Matrix Spike (1522011-MS1)	Sou	rce: P505074-	01	Prepared: 2	29-May-15	Analyzed:	01-Jun-15			
Gasoline Range Organics (C6-C10)	289	9.27	mg/kg	247	ND	117	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.374		11	0.371		101	50-150			
Matrix Spike Dup (1522011-MSD1)	Sou	rce: P505074-	01	Prepared: 2	29-May-15	Analyzed:	01-Jun-15			
Gasoline Range Organics (C6-C10)	318	10.1	mg/kg	269	ND	118	75-125	9.50	15	
Surrogate: 4-Bromochlorobenzene-FID	0.397		н	0.404		98.1	50-150			



Project Name:

Landfarm 2 Closure Sampling

5796 US HWY 64

Project Number:

Landfarm OH

Reported:

02-Jun-15 11:53

Farmington NM, 87401 Project Manager:

Felipe Aragon

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 1522012 - Anion Extraction EPA 300.0

Blank (1522012-BLK1)				Prepared &	Analyzed:	29-May-15				
Chloride	ND	9.39	mg/kg							
LCS (1522012-BS1)				Prepared &	Analyzed:	29-May-15				
Chloride	505	9.62	mg/kg	481		105	90-110			
Matrix Spike (1522012-MS1)	Source	e: P505074-	01	Prepared &	Analyzed:	29-May-15				
Chloride	551	9.58	mg/kg	479	60.0	103	80-120			
Matrix Spike Dup (1522012-MSD1)	Source	e: P505074-	01	Prepared &	Analyzed:	29-May-15				
Chloride	555	9.35	mg/kg	468	60.0	106	80-120	0.614	20	

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

laboratory@envirotech-inc.com



Project Name:

Landfarm 2 Closure Sampling

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Landfarm OH Felipe Aragon Reported:

02-Jun-15 11:53

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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Sample Date Sample Matrix QTY - Vol/TYPE/Preservative G H H H G H H G H H H G H H H H H H H	TOP M	TOP M	. Manager: Felipe Arag	gon				Pag	1 of		ОЯО			-		
S/27/2015 12:45 S	Lab Use Only D/ N rn fr. 49,6 13 14	Lab Use Only D/ N ** " . fc. dye T3 Tables amber glass	Sample	Ole		Sample Date	Sample	Matrix	Contain QTY - Vol/TYPE,	ners /Preservative	GRO/D					
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	atrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other ambler glass	Container Type: g - Sludge, A - Aqueous, O - Other sampled or received packed in ice at an avg temp above 0 but less than &C on subsequent days.	duished by: (Signature)	Date	Time	Received	by: (Signa	ture)	Date		5.3 IG Ten	ې مر	72	E STATE OF	ξ.	1
	s requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than &C on subsequent days.	s requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.	atrix: S - Soil, Sd - Solid, Sg - Sli	udge, A - Aqueous,	o - Other				Cor	ntainer Type:	g - glas	od - d '	ly/plast	ic, ag - ambe	r glass	
is requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than &C on subsequent days.		I	is requiring thermal preservation	on must be receive	d on ice the day	they are sampled	or received	packed in ice	at an avg temp above	0 but less than	C on sub	sequent	lays.			

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

Senvirolec 5796 US Highway 64, Farmington, NM 87401
Analytical Laborate Three Springs - 65 Mercado Street, Sulte 115, Durango, CO 81301



JUL 31 2014

State of New Mexico Energy, Minerals and Natural Resources Department

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,iones@state.nm.us.

Sincerely.

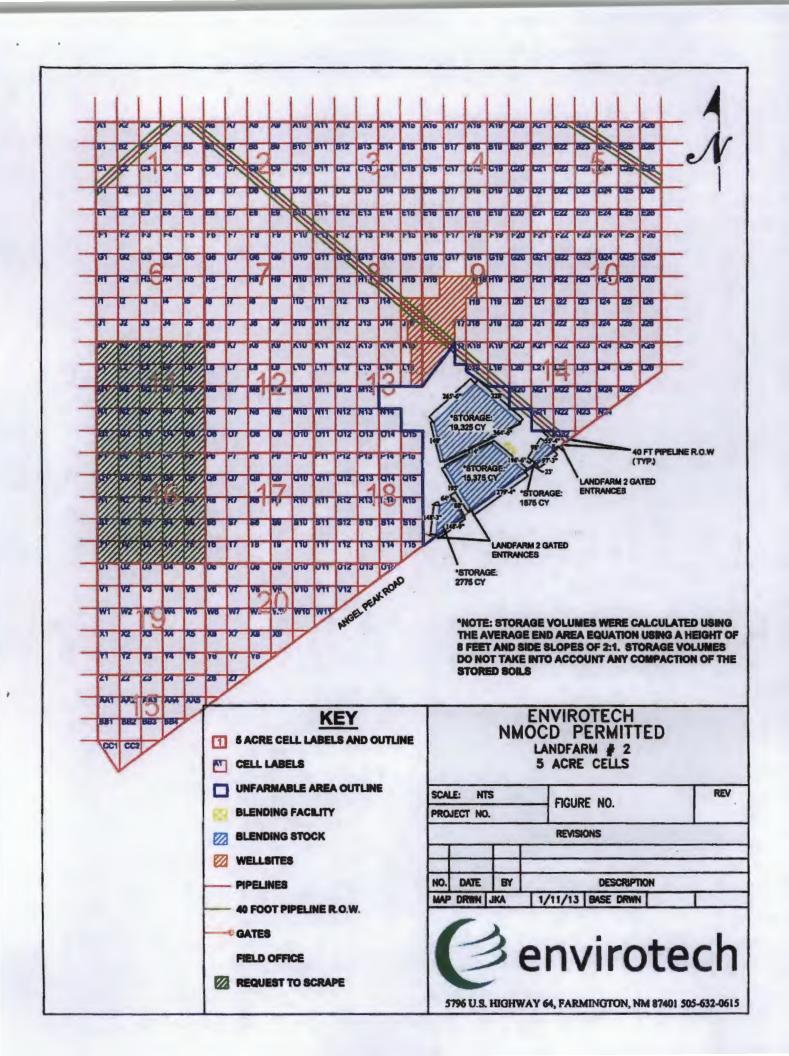
Brad A. Jones

Environmental Engineer

BAJ/baj

Attachment: Facility Map (dated January 11, 2013)

cc: OCD District III Office, Aztec

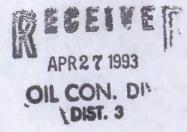


ENVIKUTECH INC.

UNDERGROUND TANK TESTING . SITE ASSESSMENT . SITE REMEDIATION

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

April 26, 1993



Ms. Kathy Brown
State of New Mexico Oil Conservation Division
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87504

Dear Ms. Brown:

Attached please find the analytical results for the background soil sample of Landfarm No. 2 as required by our September 29, 1992 Rule 711 permit.

Initially Cell F-17 was sampled. The background levels were higher than anticipated for TPH and Total Metals. This site was close to a former natural gas well pad. Subsequently a second sample was taken from Cell H-14 which we believe is more representative of the actual average background of the facility.

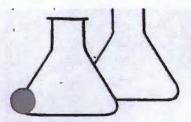
We appreciate working with your on this landfarm and the many other areas where you have been so helpful.

Sincerely,

Morris D. Young

President

enclosure



ENVIROTECH LASS

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



DIST. J

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,

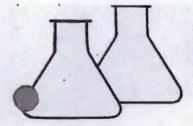
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Landfarm #2 F-17, Base Line Sample

Deur T. Gewen

Paula



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REGEIVED
APR27.1993

OIL CON. DIV.

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

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
ARSENIC	0.70	0.001
BARIUM	27.0	0.1
CADMIUM	2.26	0.001
CHROMIUM	8.02	0.001
LEAD	3.66	0.001
MERCURY	3.40	0.002
SELENIUM	0.50	0.001
SILVER	ND	0.01

Method:

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst Gener

Review young

2506 W. Main Street Farmington, New Mexico 87401

Client: Envirotech
Sample ID: Landfarm#2 Date F
Laboratory ID: 26905 Date S
ample Matrix: Water Time S
Condition: Cool/Intact Date F

 Date Reported:
 04/07/93

 Date Sampled:
 03/19/93

 Time Sampled:
 1235

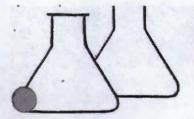
 Date Received:
 03/30/93

	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	0.48	meq/L
ations		*************	2.79	meq/L
nions			3.68	meg/L

Reference:

U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. "Standard Methods For The Examination Of Water And Waste Water", 17th ed., 1989.

Reviewed by



ENVIROTECH LAJS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Envirotech	Project #:	NA
Sample ID:	#1 Cell F-17 @ 2'	Date Sampled:	03-19-93
Laboratory Number:	4816	Date Received:	03-19-93
Sample Matrix:	Soil	Date Analyzed:	03-22-93
Preservative:	Cool	Date Reported:	03-22-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	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:

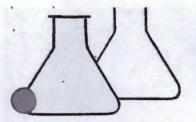
Landfarm #2 F-17

Baseline Sample

Keik Fellow

Review

Det.



El.VIROTECH LASS

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MODIFIED EPA METHOD 8015 NONHALOGENATED VOLATILE ORGANICS TOTAL PETROLEUM HYDROCARBONS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	03-29-93
Laboratory Number:	0326TPH.BLK	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Analyzed:	03-26-93
Condition:	NA	Analysis Requested:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range C5 - C10	ND	0.1
Diesel Range C10 - C28	ND	0.1
C28 - C36 Range	ND	0.1
Total Petroleum Hydrocarbons	ND	0.1

Method:

Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

Sept. 1986

ND - Parameter not detected at the stated detection limit.

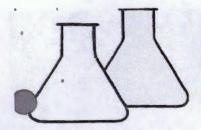
Comments:

Denie L. G'ensen

Review Jones

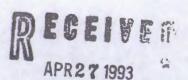
CHAIN OF CUSTODY RECORD

SH	Remarks		Buse Live					3-19-43 4728		uan jaco rapre farm \$79-5s
ANALYSIS/PARAMETERS		13W 13H2 18H3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					Inder		
	1.8	14	7			1.0	Received by: (Signature)	od by: (Signatura)	Received by: (Signature)	401
	to	No. Contai	7		-		belved by:	Received by:	seived by:	H INC 89 64-301 exico 87 615
M # 2 F-17	.0	Sample Matrix	Soil				Time	3/19/53 / 95:250 Rea	A B	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615
Project Location AAND FARM	Chain of Custody Tape No.	Lab Number	4816					7)		
3		Sample	1285							
NO FA	3	Sample Date	3/11/					17		
Chenippoint Name Enumentery Land Farm	Sampler: (Signature) Ment & Hou	Sample No./ Identification	#1 041 -1702, 3/19/33 1235				Relinquished by: (Signature)	Relinquished by (Signeture)	Relinquished by: (Signeture)	



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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

OIL CON DIST. 3

Det.

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)	Limit (mg/kg)
Total Petroleum Hydrocarbons	5.5	5.0

Method:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and

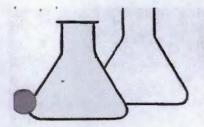
Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Landfarm #2, Hilltop, New Mexico.

Chahaley Analyst

Review & young



Condition:

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DIST. J

Analysis Needed: Trace metals

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

Det. Concentration Limit Parameter (mg/Kg) (mg/Kg) ARSENIC ND 0.0001 BARIUM ND 0.01 CADMIUM 0.0005 0.0001 CHRONIUM ND 0.0001 LEAD 0.0053 0.0001 MERCURY 0.0012 0.0002 0.0001 SELENIUM ND SILVER ND 0.001

Cool & Intact

Method:

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

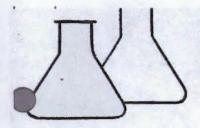
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm #1, Hilltop, New Mexico

Analyst Genre

Review Jones



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DIST, 3

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:

04-22-9

N/A

N/A

N/A

Analysis Needed: TPH

Parameter

Total Petroleum Hydrocarbons

Concentration (mg/kg)

ND

Det. Limit (mg/kg

04-22-9

5.0

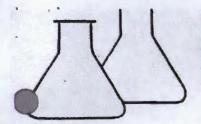
ND = Parameter not detected at the stated detection limit. N/A = Not applicable

Method:

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

Comments:

Chaharles



ENVIROTECH LASS

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TRACE METAL ANALYSIS - BLANKS

OIL CON. DIV. DIST. 3

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		Det.
		Blank	Method Blank	Limit
	Parameter	(mg/Kg)	(mg/Kg)	(mg/Kg)
	ARSENIC	ND	ND	0.0001
	BARIUM	ND	ND	0.01
h	CADMIUM	ND	ND	0.0001
4	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:

Hethods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

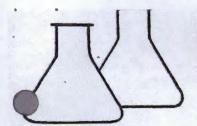
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst Openson

Review James



ENVIROTECH LASS

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** QUALITY ASSURANCE REPORT

MATRIX SPIKE -

TOTAL PETROLEUM HYDROCARBONS

OIL CON. DIV

Client:

Sample ID:

Laboratory Number:

Sample Matrix: Analysis Requested: NA

Laboratory Spike

TPSS405S Soil

Soil TPH Project #:

Date Sampled: NA
Date Received: NA

Date Analyzed: Date Reported:

NA NA

04-22-93

Parameter
Total Petroleum
Hydrocarbons

Sample Result (mg/kg) Spike Added (mg/kg) Spiked sample Result (mg/kg)

Percent Recovery

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

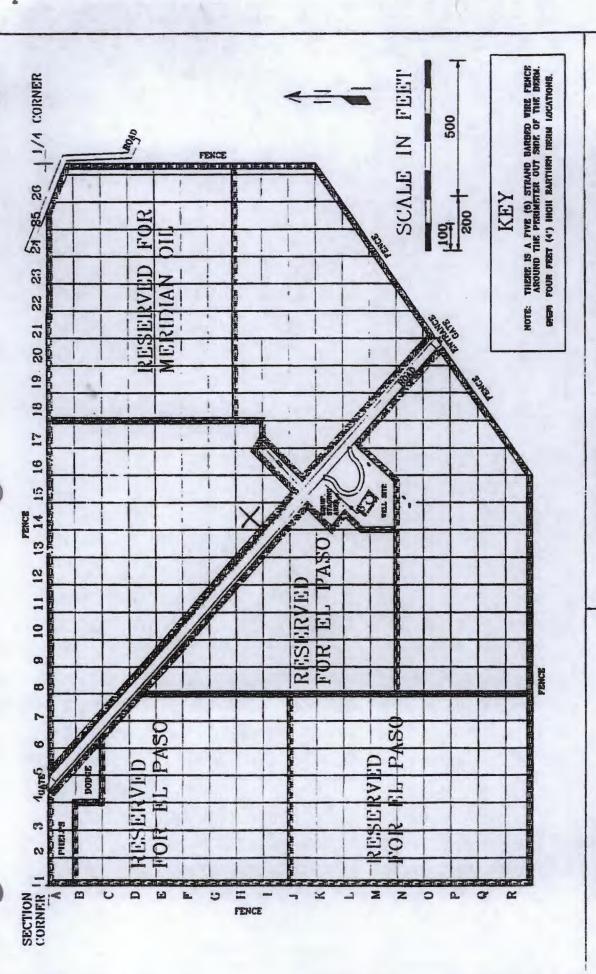
Comments:

analyst

Review

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Cauthoriect Name Froject Location Froject Location Full Roll Annia	yect Location			100 1		ANALYSIS/PARAMETERS		
Chain of Cu		1	io sien		57-		Remarks	
Sample Lab Number		Sample Metrix	No. Contai	Hal	Men Men			
E96+ 05#1	3 Soil	7	/	`				
		Time	Becklind for Committee	- International			į	1
	w.		M	Luida	Rend	S.	4-21-93	
		<u> </u>	Received by: (Signature)	(gnature)				
		8	Received by: (Signature)	(gnature)				
	EN 5796 Farmin	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615	H INC. by 64-3014 exico 874 615					



ENVIROTECH INC. LAND FARM NO. 2

NORTHERN 100 ACRES OF THE NORTHWEST 1/4 OF SECTION 6, TOWNSIIIP 26 NORTII, RANGE 10 WEST, NMPM.

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



March 10, 2015

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

RE: Vadose Zone Demonstration and Additional Lift Request for Cell 16

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 March 6, 2015, to demonstrate that after the removal of all remediated soils from the Cell 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 16.

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 16 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.

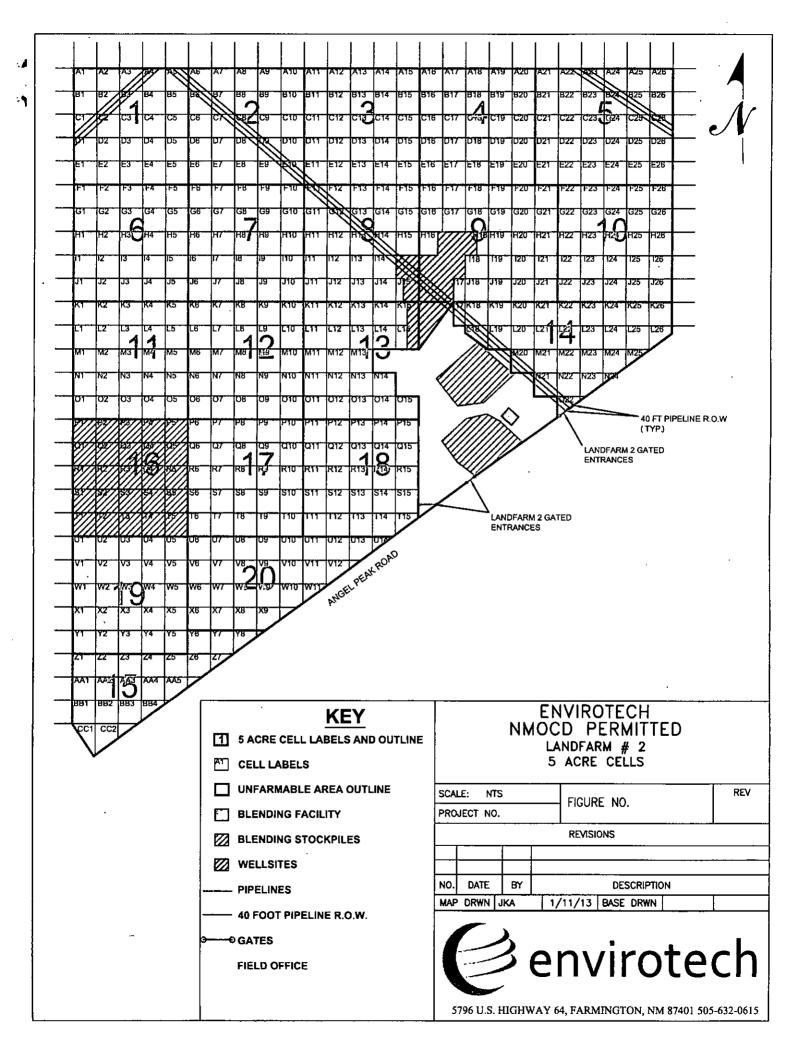
Sincerely,

Environmental Engineer

BAJ/baj

Attachment: Facility Map (Date: January 1, 2013)

cc: OCD District III Office, Aztec





March 6, 2015

RECEIVED OCD

7015 MAR -6 P 3: 19

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 16 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 16, located at #43 Road 7175, South of Bloomfield, New Mexico. On July 30, 2014, the NMOCD approved the removal of approximately 15,000 cubic yards of remediated soil from Cell 16; 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 16. 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 16 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.

Grea Crabtree

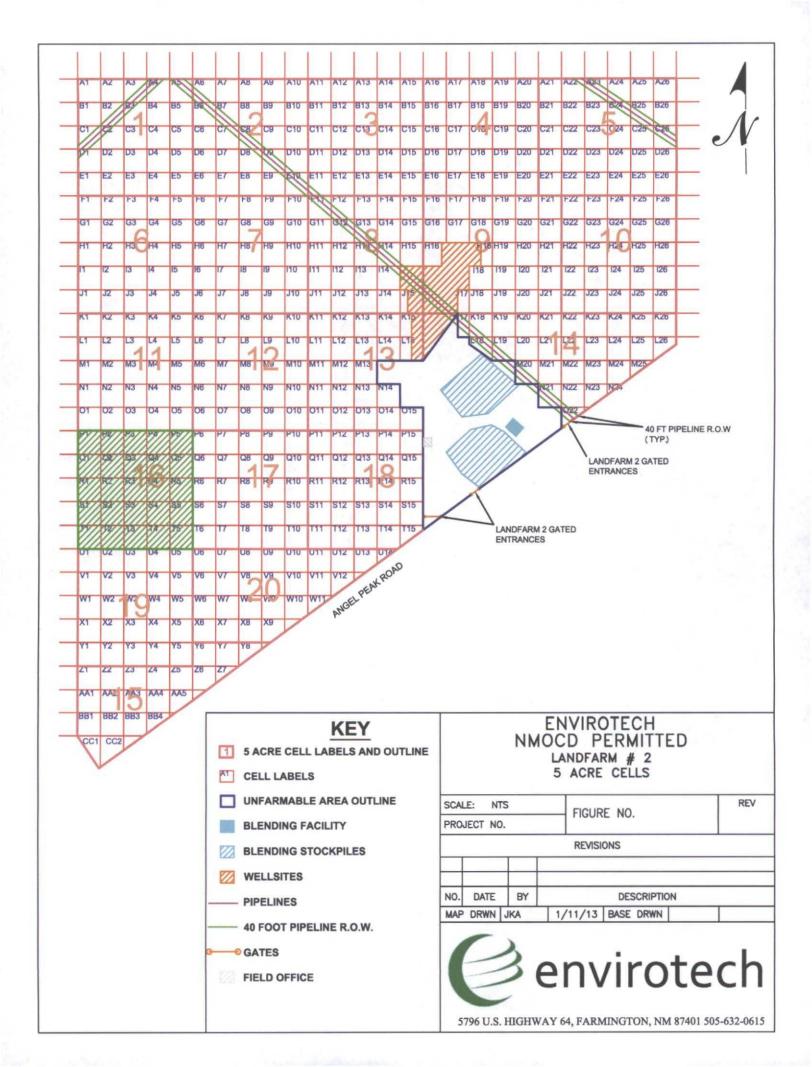
Environmental Manager

gcrabtree@envirotech-inc.com

Kendra Runung

Waste Coordinator

krunung@envirotech-inc.com





Analytical Report

Report Summary

Client: Envirotech

Chain Of Custody Number: 17633

Samples Received: 12/18/2014 1:09:00PM

Job Number: [none]

Work Order: P412069

Project Name/Location: Scrapping Confirmation

Entire Report Reviewed By:

Date: 12/24/14

Tim Cain, Laboratory Manager

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



Envirotech 5796 US HWY 64 Farmington NM, 87401 Project Name:

Scrapping Confirmation

Project Number:

Project Manager: Kendra Runung

Reported: 24-Dec-14 13:35

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cell 11	P412069-01A	Soil	12/18/14	12/18/14	Glass Jar, 4 oz.
Cell 16	P412069-02A	Soil	12/18/14	12/18/14	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

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



Project Name:

Scrapping Confirmation

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Kendra Runung

Reported: 24-Dec-14 13:35

Cell 16 P412069-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021		<u> </u>							
Benzene	ND	0,10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-	-150	1451042	12/19/14	12/24/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	l	1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: o-Terphenyl		109 %	50-	-200	1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: 4-Bromochlorohenzene-FID		92.7 %	50-	-150	1451042	12/19/14	12/24/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.86	mg/kg	1	1451043	12/19/14	12/22/14	EPA 300,0	

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5796 US Highway 64, Farmington, NM 87401

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



Project Name:

Scrapping Confirmation

5796 US HWY 64

Farmington NM, 87401

Project Number: Project Manager:

Kendra Runung

Reported: 24-Dec-14 13:35

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
		.,(2,443	1,0,701		, 511.10				. ********
Batch 1451042 - Purge and Trap EPA 5030A										
Blank (1451042-BLK1)				Prepared: 1	9-Dec-14	Analyzed: 2	3-Dec-14			
Benzene	ND	0.10	mg/kg							_
Toluene	ND	0.10								
Ethylbenzene	ND	0.10	ū							
p.m-Xylene	ND	0.20	H							
o-Xylene	0.15	0.10	н				•	•		
Total Xylenes	0.15	0.10								
Total BTEX	0.15	0.10								
Surrogate: 4-Hromochlorobenzene-PID	0.417		"	0.400		104	50-150			_
LCS (1451042-BS1)				Prepared: 1	9-Dec-14	Analyzed; 2	3-Dec-14			
Benzene	21.7	0.10	mg/kg	19.9		109	75-125			
Тошене	22,4	0.10	"	19,9		112	70-125			
Ethylbenzene	22.5	0.10	н	19.9		113	75-125			
p,m-Xylene	45.8	0,20	n	39.9		115	80-125			
o-Xylene	22.6	0.10	н	19.9		113	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.417		"	0.399		105	50-150			
Matrix Spike (1451042-MS1)	So	urce: P412067-	01	Prepared: 1	9-Dec-14	Analyzed; 2	3-Dec-14			
Benzene	22.3	0.10	mg/kg	20.0	ND	112	75-125			
Toluene	22.9	0.10	*	20.0	ND	115	70-125			
Ethylbenzene	23.0	0.10	+	20.0	ND	115	75-125			
p,m-Xylene	46,5	0.20	н	40,0	ND	116	80-125			
o-Xylene	23,1	0.10	н	20.0	ND	115	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.416	-	"	0.400		104	50-150			-
Matrix Spike Dup (1451042-MSD1)	Soi	urce: P412067-	01	Prepared: 1	9-Dec-14	Analyzed: 2	3-Dec-14			
Benzene	22.4	0,10	mg/kg	20.0	ND	112	75-125	0,464	15	
Toluene	22,9	0.10	•	20.0	ND	114	70-125	0.121	15	
Ethylhenzene	23.2	0.10	*	20.0	ND	116	75-125	1.07	15	
o,m-Xylene	46,4	0.20	*	40.0	ND	116	80-125	0.221	15	
>-Xylene	23.2	0.10	_ •	20.0	ND	116	75-125	0.712	15	
Surrogate: 4-Bromochlorobenzene-PID	0.402		n	0.400		101	50-150			

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5796 US Highway 64, Farmington, NM 87401

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



Project Name:

Scrapping Confirmation

5796 US HWY 64

Project Number: Farmington NM, 87401 Project Manager:

Kendra Runung

Reported:

24-Dec-14 13:35

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 1451041 - DRO Extraction EPA 35	550M									
Blank (1451041-BLK1)				Prepared: I	9-Dec-14	Analyzed: 2	22-Dec-14			
Diesel Range Organics (C10-C28)	ND	30,0	mg/kg							
Surrogate: o-Terphenyl	42.7		n	40.0		107	50-200			
LCS (1451041-BS1)				Prepared: !	9-Dec-14	Analyzed: 2	22-Dec-14			
Diesel Range Organics (C10-C28)	535	30.0	mg/kg	500		107	38-132			
Surrogate: o-Terphenyl	44.2		п	40.0		111	50-200			
Matrix Spike (1451041-MS1)	Sou	rce: P412067-	01	Prepared: 1	9-Dec-14	Analyzed: 1	22-Dec-14			
Diesel Range Organics (C10-C28)	691	30.0	mg/kg	500	ND	138	38-132			SPK1
Surrogate: o-Terphenyl	53.0		" •	40.0		133	50-200			
Matrix Spike Dup (1451041-MSD1)	Sou	rce: P412067-	01	Prepared: 1	9-Dec-14	Analyzed: :	22-Dec-14			
Diesel Range Organics (C10-C28)	579	29.9	mg/kg	499	ND	116	38-132	17.7	20	
Surrogate: o-Terphenyl	47.2		н	39.9		118	50-200			

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



Envirotech 5796 US HWY 64 Project Name:

Scrapping Confirmation

5796 US HWY 64 Farmington NM, 87401 Project Number: Project Manager:

Reporting

Kendra Runung

Spike

Source

Reported: 24-Dec-14 13:35

RPD

%REC

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	I,imit	Notes
Batch 1451042 - Purge and Trap EPA 5030)A									
Blank (1451042-BLK1)				Prepared: 1	9-Dec-14	Analyzed:	23-Dec-14			
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	•					•	
Surrogate: 4-Bromochlorobenzene-FID	0.373		н	0.400		93.2	50-150			
LCS (1451042-BSI)				Prepared: 1	9-Dec-14	Analyzed:	23-Dec-14			
Gasoline Range Organics (C6-C10)	323	9,97	mg/kg	291		111	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.374		н	0.399		93.9	50-150			
Matrix Spike (1451042-MS1)	Source	ce: P412067-	01	Prepared: 1	9-Dec-14	Analyzed:	23-Dec-14			
Gasoline Range Organics (C6-C10)	325	9.99	mg/kg	292	ND	112	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.374		"	0.400		93.6	50-150			
Matrix Spike Dup (1451042-MSD1)	Source	ce: P412067-	01	Prepared: 1	9-Dec-14	Analyzed:	23-Dec-14			
Gasoline Range Organics (C6-C10)	330	9.99	mg/kg	292	ND	113	75-125	1.22	15	
Surrogate: 4-Bromochlorobenzene-FID	0.361		•	0.400		90.4	50-150			

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5796 US Highway 64, Farmington, NM 87401

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



Envirotech 5796 US HWY 64 Farmington NM, 87401 Project Name:

Scrapping Confirmation

Project Number: Project Manager:

Kendra Runung

Reported:

24-Dec-14 13:35

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1451043 - Anion Extraction EPA 300.0										
Blank (1451043-BLK1)				Prepared: 1	9-Dec-14	Analyzed: 2	22-Dec-14			
Chloride	ND	9.91	mg/kg			<u>.</u>				
LCS (1451043-BS1)				Prepared: 1	9-Dec-14	Analyzed: 1	22-Dec-14			
Chloride	498	9.81	mg/kg	491		101	90-110			
Matrix Spike (1451043-MS1)	Sou	rce: P412069-	01	Prepared: 1	9-Dec-14	Analyzed: 2	22-Dec-14			
Chloride	600	9.87	mg/kg	494	110	99.4	80-120			
Matrix Spike Dup (1451043-MSD1)	Sou	rce: P412069-	01	Prepared: 1	9-Dec-14	Analyzed: :	22-Dec-14			
Chloride	615	9.86	mg/kg	493	110	103	80-120	2.44	20	

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5796 US Highway 64, Farmington, NM 87401

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



Project Name:

Scrapping Confirmation

5796 US HWY 64

Farmington NM, 87401

Project Number: Project Manager;

Kendra Runung

Reported: 24-Dec-14 13:35

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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5796 US Highway 64, Farmington, NM 87401

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

CHAIN OF CUSTODY RECORD

17633

Client: Enviroteck		F	Project Name / Location	on:	makie	·~ 7.							Α	NAL	/SIS	/ PAF	MAF	ETEF	RS			
Email results to: [saue / Kindya			Scrapping Compler Name: I. Gan	ici'a	200770				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	als	_		ďρ)-t						
Client Phone No.:		(Client No.:						Method	(Metho	Methoc	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE				Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.		Volume ntainers	HNO ₃	eserva HCI	tive /مما	TPH (I	втех) oox	RCRA	Cation	RCI	TCLP	со Та	TPH (CHLORIDE			i i	Sampl
Cell 11 Cell 16	12/19/14	10:31	P412069-01	1-40	って			X	X	X	-							X				
Cell 16	12/18/14	10:45	P412069-62	1-4.	> ₹	3	;	×	区	X								X				1 4
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Sample Matrix	A guantura C] Other																				
Soil Solid Sludge Sudge Sample(s) dropped off after	···				<u> </u>	-			- 1													
Sample(s) dropped on alter	nours to se	scare drop	on aca.	∌ €	N S Anal	ir(lytic	o t	e (C h) y			12	.9	1	12	.3					
5795 US Highway 6	4 • Farming	ton, NM 87	/401 • 505-632-0615 •	- Three Spri	ings = 65 N	легса Иегса	do Sti	reet, S	Suite	115, D	uran	go, C	0 81	301 •	labo	rator	y@en	virote	ech-inc	Pa	10 11	0 of 10

ENVIROTECH Inc. 5798 US HWY. 64. FARMINGTON, NM 87401 (505) 832-0615

.PiT No.__ こので 岩__

FIELD REPORT: REMEDIATION FA	•
HACKLITY LOCATION: GRUNG FOCK CONSTRUCT OF SOURCE LOCATION CALCULATION 2 SOURCE LOCATION COLL LLE SOURCE LOCATION	DATE STARTED /2/18/14 DATE SINGRED /2/18/14
	TYPE SPECAUST & GOLCA
SOIL REMEDIATION. QUANTITY: DIMENSIONS VISIBLE OBSERVATIONS: SAMPLING PLAN:	91. 14. D 12. 11. 11. 11. 11. 11. 11. 11. 11. 11.
FICED NOTES & REMARKS: FACILITY CENTER LOCATED DEPTH TO GROUNDWATER, NEAREST SURFACE VATER MAX TPP PER NMOCD NO DE 5-POINT COMPOSITE SAMPLESO TAPDAGE= D-200-4 201-400-2 -1000-5	S APPROXTAPES FROY WELLHEAD.
FACILITY DIAGRAM GRAD GEALE-	OVM RESULTS Sup 1 True () () Sup 1 True Sup 2 True () () Sup 1 True Sup 3 True () () Sup 1 True Sup 4 True () () Sup 1 True Sup 5 True () () Sup 1 True Sup 6 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True () () Sup 1 True Sup 7 True True
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JUL 3 1 2014

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary Jami Bailey, Division Director Oli 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,

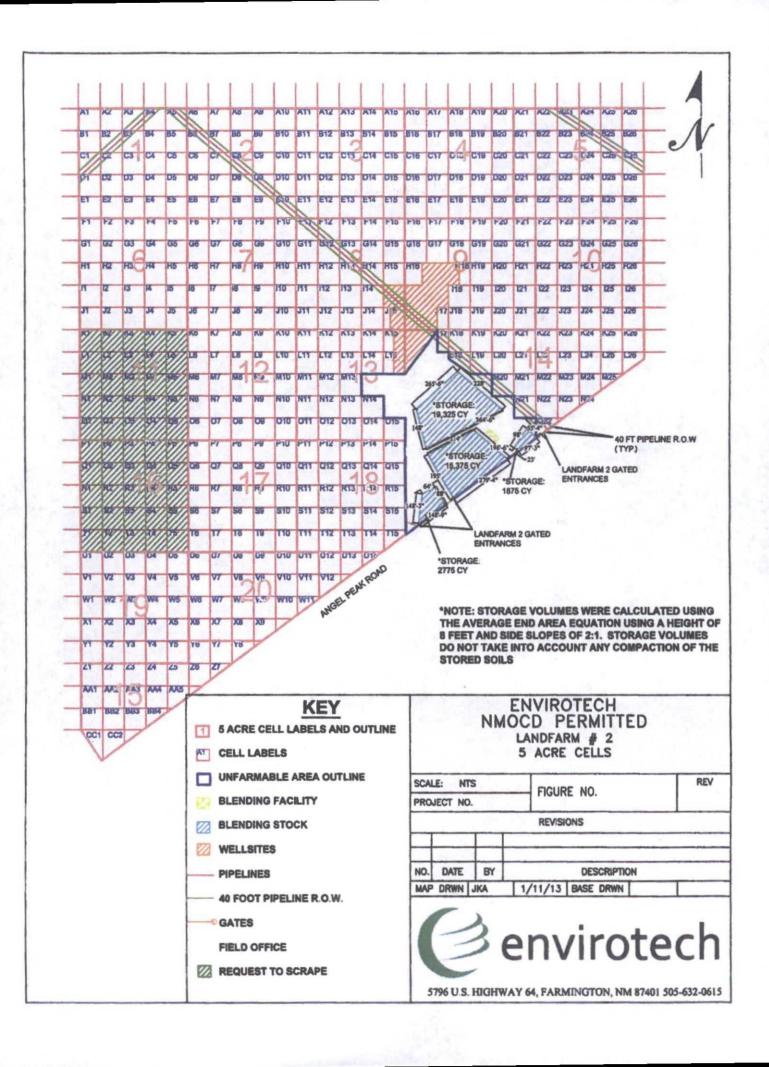
Brad A. Jones

Environmental Engineer

BAJ/baj

Attachment: Facility Map (dated January 11, 2013)

cc: OCD District III Office, Aztec



ENVIKUILUR INC

Underground Tank Testing • Site Assessment • Site Remediation

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

APR 2 7 1993

April 26, 1993

OIL CON. DIV.

Ms. Kathy Brown
State of New Mexico Oil Conservation Division
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87504

Dear Ms. Brown:

Attached please find the analytical results for the background soil sample of Landfarm No. 2 as required by our September 29, 1992 Rule 711 permit.

Initially Cell F-17 was sampled. The background levels were higher than anticipated for TPH and Total Metals. This site was close to a former natural gas well pad. Subsequently a second sample was taken from Cell H-14 which we believe is more representative of the actual average background of the facility.

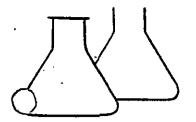
We appreciate working with your on this landfarm and the many other areas where you have been so helpful.

Sincerely,

Morris D. Young

President

enclosure



ENVIROTECH LASS

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



OIL COM

MODIFIED EPA METHOD 8015 NONHALOGENATED VOLATILE ORGANICS DIST.

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	<u>-</u> 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,

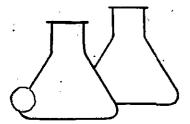
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Landfarm #2 F-17, Base Line Sample

Analyst A. Aflalla

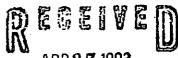
Review





5796 US Highway 64-3014 . Farmington, New Mexico 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865



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

P	arameter	Concentration (mg/Kg)	Limit (mg/Kg)
	ARSENIC	0.70	0.001
	BARIUM	27.0	0.1
)	CADMIUM	2.26	0.001
	CHROMIUM	8.02	0.001
	LEAD	3.66	0.001
	MERCURY	3.40	0.002
	SELENIUM	0.50	0.001
	SILVER	ND	0.01

Method:

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A Analysis of Metals by GFAA and PLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments:

2508 W. Main Street Farmington, New Maxico 87401

Client:

Envirotech

Sample ID:

Landfarm#2

Laboratory ID: Sample Matrix:

26905

Condition:

Water Cool/intact Date Reported:

04/07/93

Date Sampled: Time Sampled:

03/19/93 1235

Date Received:

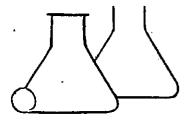
03/30/93

	Analytical			
Parameter	Result	Units		Units
Lab pH	6.9	s.u.		
ab Conductivity @ 25° C	248	umhos/cm		
Total Dissolved Solids @ 180°C	<10	mg/L		
otal Dissolved Solids (Calc)	<10	mg/L		
otal Alkalinity as CaCO3	87	mg/L		
Total Hardness as CaCO3	<1	mg/L		
Bicarbonate as HCO3	106	mg/L	1.74	meq/L
Carbonate as CO3	0	mg/L	0.00	meq/L
Hydroxide as OH	0	mġ/L	0.00	meq/L
Chloride	5.1	mg/L	0.14	meq/L
Sulfate	86	mg/L	1.80	meq/L
Calcium	69	mg/L	1.73	meq/L
Magnesium	11	mg/L	0.47	meq/L
Potassium	5.1	mg/L	0.13	meq/L
Sodium	11	mg/L	0.46	meq/L
Cations	************		2.79	meq/L
Anions	*******************	*********	3.68	meq/L
Cation/Anion Difference			13.76	%

Reference:

U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. "Standard Methods For The Examination Of Water And Waste Water", 17th ed., 1989.

Reviewed by_____



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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Envirotech	Project #:	NA
Sample ID:	#1 Cell F-17 @ 2'	Date Sampled:	03-19-93
Laboratory Number:	4816	Date Received:	03-19-93
Sample Matrix:	Soil	Date Analyzed:	03-22-93
Preservative:	Cool	Date Reported:	03-22-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum		
Hydrocarbons	16.3	5.0

Method:

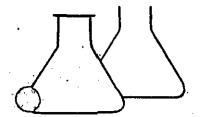
Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments:

Landfarm #2 F-17 Baseline Sample

Review



LI.VIROTECH LABS

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

MODIFIED EPA METHOD 8015 NONHALOGENATED VOLATILE ORGANICS TOTAL PETROLEUM HYDROCARBONS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	03-29-93
Laboratory Number:	0326TPH.BLK	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Analyzed:	03-26-93
Condition:	NA	Analysis Requested:	TPH

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Compline Person de dia		
Gasoline Range C5 - C10 Diesel Range C10 - C28	ND ND	0.1
C28 - C36 Range	ND ND	0.1 0.1
020 - 030 Nange	W D	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:

Analyst

Review

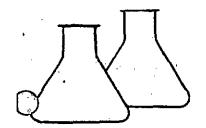
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CHAIN OF CUSTODY RECORD

Client/Project Namo			Project Location												
ENVIRUTERA LAND FARM LANDFAR				rm #	2 F-1	7	ANALYSIS/PARAMETERS								
Sampler: (Signature)	<u></u>		Chain of Custody To	spe No.				123			1			Remarks	
Moni Dy	nu-3-					to <u>1</u>	E &	245. Jak	P P				-		
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	No. of Contains	34	CHE	Meras						· · ·
#/ Cell F-17@2	3/19/	1235	4816	S	oil	2-	V	~	/				BAS	e Line Omple	, parag
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Relinquished by: (Signature)		<u> </u>		Date	Time F	Received by: ([1	L	L	Date	Time
monialy	our		·	3/19/53	14:28	Zu	ida	1	und	er	<u>, </u>			3-14-43	425
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·					NVIROTE									<u> </u>	

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APR 2 7 1993

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS OIL CON JUN DIST. 3

Client: Envirotech Project #: NA 04-20-93 Sample ID: H-14 Date Sampled: 04-21-93 Laboratory Number: 4963 Date Received: Sample Matrix: Soil Date Analyzed: 04-22-93 Date Reported: 04-22-93 Preservative: Cool Cool & Intact Analysis Needed: TPH Condition:

Det. Concentration Limit (mg/kg) (mg/kg) Parameter Total Petroleum 5.0 5.5 Hydrocarbons

Method:

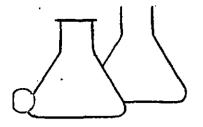
Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and

Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Landfarm #2, Hilltop, New Mexico. Comments:

Chahalan



Condition:

ENVIROTECH LABS

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OIL CON

Analysis Needed: Trace metals

0.0001

0.0002

0.0001

0.001

DIST. J

TRACE METAL ANALYSIS

Client: Envirotech Project #: NA Sample ID: H - 14Date Reported: 04-21-93 Laboratory Number: 04-20-93 4963 Date Sampled: Sample Matrix: Soil Date Received: 04-21-93 Preservative: Cool Date Analyzed: 04-21-93

Det. Concentration Limit Parameter (mg/Kg) (mg/Kg) ND ARSENIC 0.0001 BARIUM ND 0.01 0.0005 0.0001 CADMIUM CHROMIUM ND 0.0001

0.0053

0.0012

ND

ND

Cool & Intact

Method:

LEAD

MERCURY

SILVER

SELENIUM

Hethods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

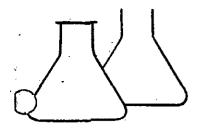
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm #1, Hilltop, New Mexico

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OIL CON. I

DIST. S

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

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

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg
Laramotor	(11197 1197	\mg/ \x9
Total Petroleum		
Hydrocarbons	ND	5.0

ND = Parameter not detected at the stated detection limit. N/A = Not applicable

Method:

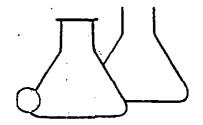
Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and

Waste, USEPA Storet No.4551, 1978

Comments:

Ca Chaharlag

Review



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RESEIVED

TRACE METAL ANALYSIS - BLANKS

OIL CON. DIV.

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)	
		(#3/#3)	(mā, vā)	(mg/Kg)
	ARSENIC	ND	ND	0.0001
	BARIUM	ND	ND	0.01
1	CADMIUM	ИD	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:

Hethods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

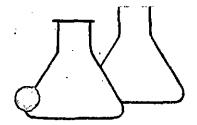
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A Analysis of Metals by GFAA and FLAA, SW-846, USEPA

ND - Parameter not detected at the stated detection limit.

Comments:

Mayst Grenau

Review



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APR **2 7** 19**93**

** QUALITY ASSURANCE REPORT

MATRIX SPIKE -

TOTAL PETROLEUM HYDROCARBONS

OIL CON. DIV DIST. 3

Client:

Sample ID:

NA

Laboratory Spike

Project #: Date Sampled: Date Received:

NA NA NA,

Laboratory Number: Sample Matrix:

TPSS4058 Soil

Date Analyzed:

04-22-93

Analysis Requested:

TPH

Date Reported: 04-22-93

	Sample Result	Spike Added	Spiked sample Result	Percent
Parameter	(mg/kg)	(mg/kg)	(mg/kg)	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:

Le Chahala

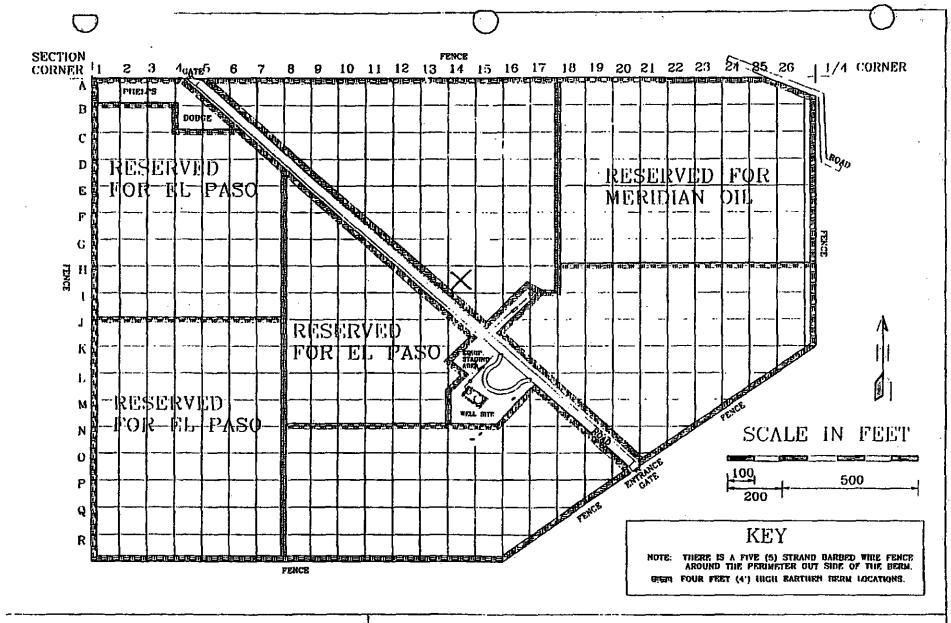
CHAIN OF CUSTODY RECORD Project Location Client/Project Name ANALYSIS/PARAMETERS HILLTOP New MEKICO ENVIROTREH LAND FARM # 2 Chain of Custody Tape No. Sampler: (Signature) 418.1 Remarks Sample No./ Identification Sample Sample Sample Lab Number Matrix Date Time 4963 4/29/93 Soil 14:50 H-14 Received by: (Signature) Date Time Date Time Relinquished by: (Signature) uida Pender 4/21/93 810 Received by: (Signature) Relinquished by: (Signature) Received by: (Signature) ENVIROTECH INC.

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ENVIROTECH INC. LAND FARM NO. 2 NORTHERN 100 ACRES OF THE NORTHWEST 1/4 OF SECTION 6, TOWNSHIP 26 NORTH, RANGE 10 WEST, NMPM.