NM1 - ___11___

APPROVALS

YEAR(S):

__2011 - 2012___

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

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

Jami Bailey
Division Director
Oil Conservation Division

July 17, 2012

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

RE: Request for Approval to Apply a Successive Lift
Envirotech, Inc.
Commercial Landfarm #2: Permit NM-1-0011
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM
San Juan County, New Mexico

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated July 12, 2012, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 1, 2, and 3**.

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

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

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

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

envirotech

July 12, 2012

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

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:
CELLS 3, 2, AND 1 IN LANDFARM #2

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of successive lifts at Envirotech's Land Farm #2 for cells 3, 2, AND 1 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five acres. Additionally, per Envirotech's standard operating procedures for sampling, each sample was comprised of a five-point composite.

The green cells (3, 2, AND 1) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene and total xylenes (see attached Laboratory Results). The BTEX and benzene results are reported in parts per billion (ug/Kg) and TPH is in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

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

Cell 3: 9962 cy (15") Cell 2: 11207 cy (17") Cell 1: 9765 cy (14")

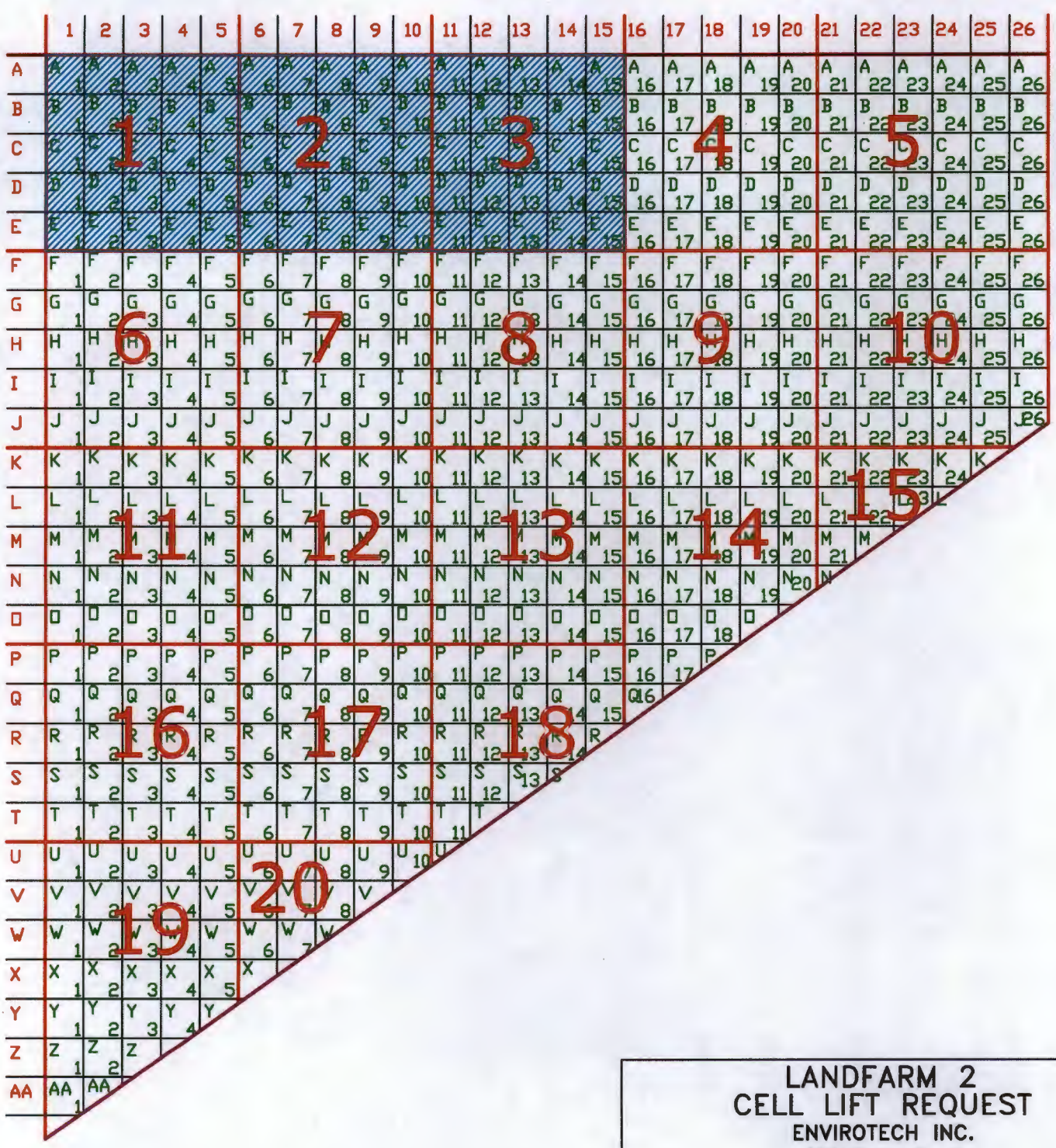
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

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

Respectfully submitted,
Envirotech, Inc.

Keith Johnson
General Manager
kjohnson@envirotech-inc.com

Kendra Runung
Waste Coordinator
krunung@envirotech-inc.com



5 ACRE CELLS
REQUESTING LIFT

LANDFARM 2
CELL LIFT REQUEST
ENVIROTECH INC.
CELLS 1, 2 ,3

SCALE: NTS	FIGURE NO.	REV
PROJECT NO.		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	BWW	7-12-12	BASE DRWN

envirotech

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

envirotech
Analytical Laboratory

Report Summary

Client: Envirotech

Chain of Custody Number: 14919

Samples Received: 06-21-12

Job Number: '03037-0006

Sample Number(s): 62433-442

Project Name/Location: Landfarm 2 Closure Sampling

Entire Report Reviewed By: Rene Zazzi Date: 06/29/12

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

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

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 3	Date Reported:	06-26-12
Laboratory Number:	62435	Date Sampled:	06-21-12
Chain of Custody No:	14919	Date Received:	06-21-12
Sample Matrix:	Soil	Date Extracted:	06-22-12
Preservative:	Cool	Date Analyzed:	06-25-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**59.2**	**0.1**
Total Petroleum Hydrocarbons	**59.2**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Closure Sampling**

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 2	Date Reported:	06-26-12
Laboratory Number:	62436	Date Sampled:	06-21-12
Chain of Custody No:	14919	Date Received:	06-21-12
Sample Matrix:	Soil	Date Extracted:	06-22-12
Preservative:	Cool	Date Analyzed:	06-25-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**33.2**	**0.1**
Total Petroleum Hydrocarbons	**33.2**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Closure Sampling**

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 1	Date Reported:	06-26-12
Laboratory Number:	62442	Date Sampled:	06-21-12
Chain of Custody No:	14919	Date Received:	06-21-12
Sample Matrix:	Soil	Date Extracted:	06-22-12
Preservative:	Cool	Date Analyzed:	06-25-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**64.7**	**0.1**
Total Petroleum Hydrocarbons	**64.7**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Closure Sampling**

envirotech
Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0625TCAL QA/QC	Date Reported:	06-26-12
Laboratory Number:	62428	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-25-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	06-25-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	06-25-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**

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

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

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**259**	**104%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**290**	**116%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

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

Comments: **QA/QC for Samples 62428, 62430 and 62433-62442**

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 3	Date Reported:	06-28-12
Laboratory Number:	62435	Date Sampled:	06-21-12
Chain of Custody:	14919	Date Received:	06-21-12
Sample Matrix:	Soil	Date Analyzed:	06-28-12
Preservative:	Cool	Date Extracted:	06-22-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**65.6**	**10.0**
Ethylbenzene	**22.8**	**10.0**
p,m-Xylene	**143**	**10.0**
o-Xylene	**35.4**	**10.0**
Total BTEX	**266**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94.8 %**
	1,4-difluorobenzene	**94.6 %**
	Bromochlorobenzene	**88.8 %**

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

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

Comments: Landfarm 2 Closure Sampling

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 2	Date Reported:	06-28-12
Laboratory Number:	62436	Date Sampled:	06-21-12
Chain of Custody:	14919	Date Received:	06-21-12
Sample Matrix:	Soil	Date Analyzed:	06-28-12
Preservative:	Cool	Date Extracted:	06-22-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**70.6**	**10.0**
Ethylbenzene	**23.0**	**10.0**
p,m-Xylene	**170**	**10.0**
o-Xylene	**44.5**	**10.0**
Total BTEX	**308**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96.3 %**
	1,4-difluorobenzene	**96.5 %**
	Bromochlorobenzene	**94.5 %**

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

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

Comments: Landfarm 2 Closure Sampling

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 1	Date Reported:	06-28-12
Laboratory Number:	62442	Date Sampled:	06-21-12
Chain of Custody:	14919	Date Received:	06-21-12
Sample Matrix:	Soil	Date Analyzed:	06-28-12
Preservative:	Cool	Date Extracted:	06-22-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**11.4**	**10.0**
Toluene	**61.7**	**10.0**
Ethylbenzene	**19.5**	**10.0**
p,m-Xylene	**46.4**	**10.0**
o-Xylene	**20.6**	**10.0**
Total BTEX	**160**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.4 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**91.6 %**

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

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

Comments: Landfarm 2 Closure Sampling

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0628BCAL QA/QC	Date Reported:	03-06-12
Laboratory Number:	62433	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-06-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: (Accept. Range 0-15%)	%Diff.	Blank Conc	Detect. Limit
Benzene	3.5271E-05	3.5271E-05	**0.000**	**ND**	**0.2**
Toluene	4.0971E-05	4.0971E-05	**0.000**	**ND**	**0.2**
Ethylbenzene	4.5220E-05	4.5220E-05	**0.000**	**ND**	**0.2**
p,m-Xylene	3.9532E-05	3.9532E-05	**0.000**	**ND**	**0.2**
o-Xylene	4.8161E-05	4.8161E-05	**0.000**	**ND**	**0.2**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**10.7**	**10.4**	**0.03**	**0 - 30%**	**10**
Toluene	**91.2**	**102**	**0.12**	**0 - 30%**	**10**
Ethylbenzene	**35.6**	**32.8**	**0.08**	**0 - 30%**	**10**
p,m-Xylene	**203**	**184**	**0.10**	**0 - 30%**	**10**
o-Xylene	**66.8**	**58.0**	**0.13**	**0 - 30%**	**10**

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	**10.7**	**2500**	**2450**	**97.6**	**39 - 150**
Toluene	**91.2**	**2500**	**2440**	**94.2**	**46 - 148**
Ethylbenzene	**35.6**	**2500**	**2460**	**97.0**	**32 - 160**
p,m-Xylene	**203**	**5000**	**5070**	**97.4**	**46 - 148**
o-Xylene	**66.8**	**2500**	**2520**	**98.2**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

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

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

Comments: QA/QC for Samples 62433-62442.

14919

CHAIN OF CUSTODY RECORD

Client: Envirotech

Project Name / Location: Landfarm 2 Closure Sampling

Email results to: Kendra Running

Sampler Name: K. Peine

Client Phone No.:

Client No.: 03037-0006

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Cell 5	6-21-12	11:15	62433	1 4oz Jar			X	X	X								X				X	Y
Cell 4	6-21-12	11:45	62434	1 4oz Jar			X	X	X								X					
Cell 3	6-21-12	12:00	62435	1 4oz Jar			X	X	X								X					
Cell 2	6-21-12	12:15	62436	1 4oz Jar			X	X	X								X					
Cell 9	6-21-12	12:30	62437	1 4oz Jar			X	X	X								X					
Cell 11	6-21-12	13:15	62438	1 4oz Jar			X	X	X								X					
Cell 6	6-21-12	13:30	62439	1 4oz Jar			X	X	X								X					
Cell 16	6-21-12	13:45	62440	1 4oz Jar			X	X	X								X					
Cell 19	6-21-12	14:15	62441	1 4oz Jar			X	X	X								X					
Cell 1	6-21-12	13:00	62442	1 4oz Jar			X	X	X								X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Amy Peine	6-21-12	15:20	[illegible]	6-21-12	15:20
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☑ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

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

envirotech
Analytical Laboratory

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

san juan reproduction 578-129

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. _____
PAGE No: ____ of ____

FACILITY LOCATION: Landfarm 2
SOURCE LOCATION:
SOURCE LOCATION: cell #1 Closure
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 7-12-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Peire

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: ____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

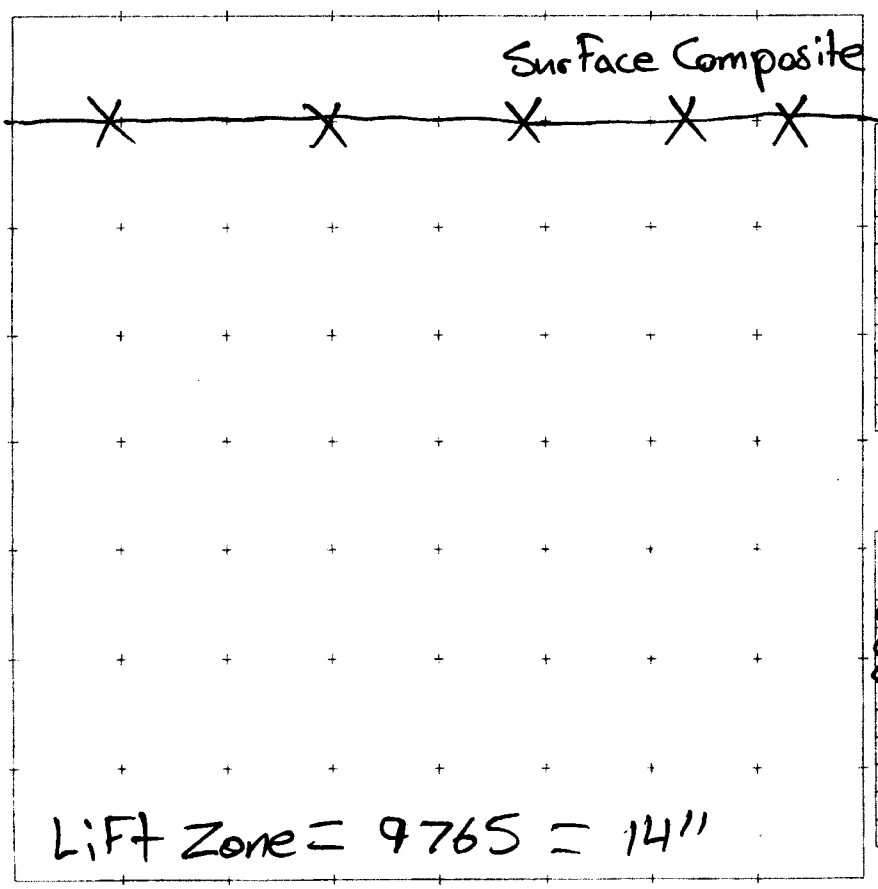
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM:
Cell 1	8015	
Cell 1	8021	
Cell 1	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. _____
PAGE No: ____ of ____

FACILITY LOCATION: LandFarm 2
SOURCE LOCATION:
SOURCE LOCATION: Cell #2 Closure
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 7-12-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Peire

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: ____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

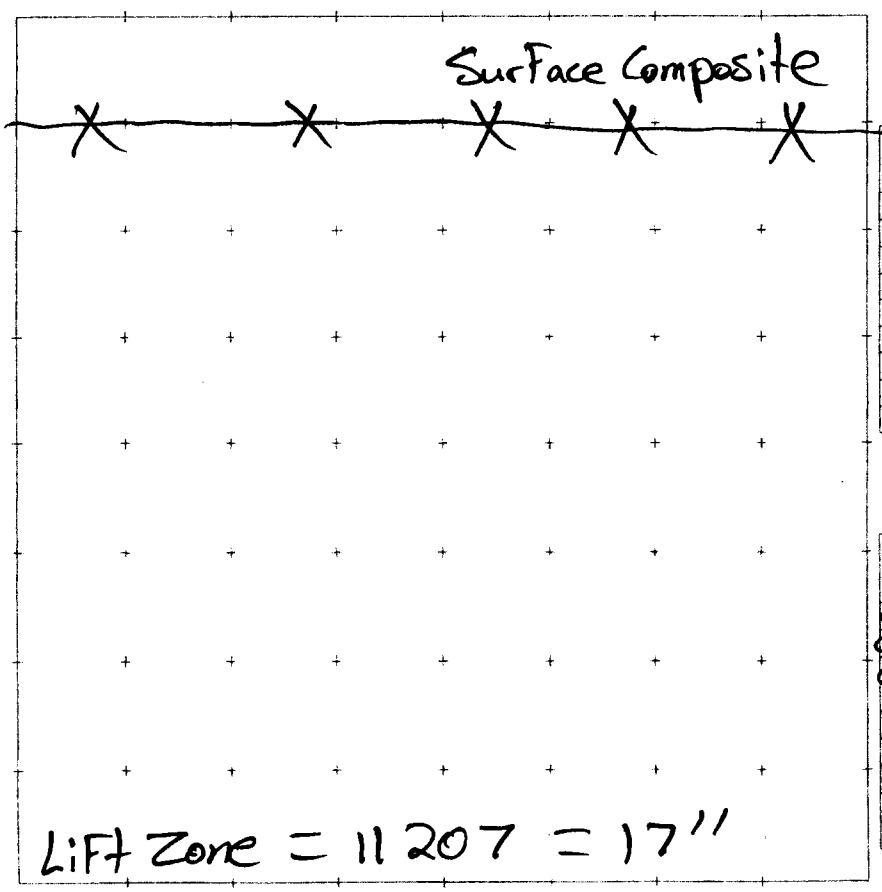
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
Cell 2	8015	
Cell 2	8021	
Cell 2	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No. _____
PAGE No: ____ of ____

FACILITY LOCATION: LandFarm 2
SOURCE LOCATION:
SOURCE LOCATION: cell # 3 Closure
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 7-12-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Peire

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: ____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

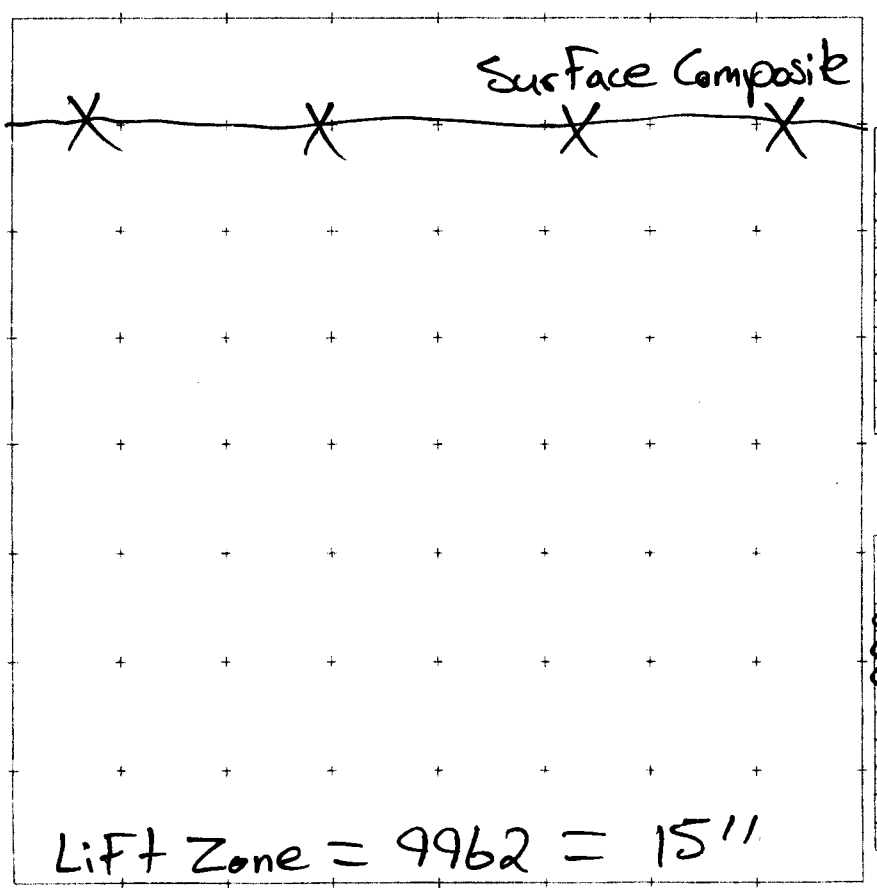
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX ____ YARDS ____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
cell 3	8015	
cell 3	8021	
cell 3	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

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

Jami Bailey
Division Director
Oil Conservation Division

July 16, 2012

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

RE: Request for Approval to Apply a Successive Lift
Envirotech, Inc.
Commercial Landfarm #2: Permit NM-1-0011
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM
San Juan County, New Mexico

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated July 12, 2012, to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 48.**

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

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

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

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

envirotech

July 12, 2012

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

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:
CELLS 48 IN LANDFARM #2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of a successive lift at Envirotech's Land Farm #2 Unit 5 for cell 48 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a blue crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five acres. Additionally, per Envirotech's standard operating procedures for sampling, the sample was comprised of a five-point composite.

The blue cell (48) has passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene and total xylenes (see attached Laboratory Results). The BTEX and benzene results are reported in parts per billion (ug/Kg) and TPH is in parts per million (mg/Kg). Envirotech hereby requests that this cell be approved for an additional lift.

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

Cell 48: 9195 cy (14")

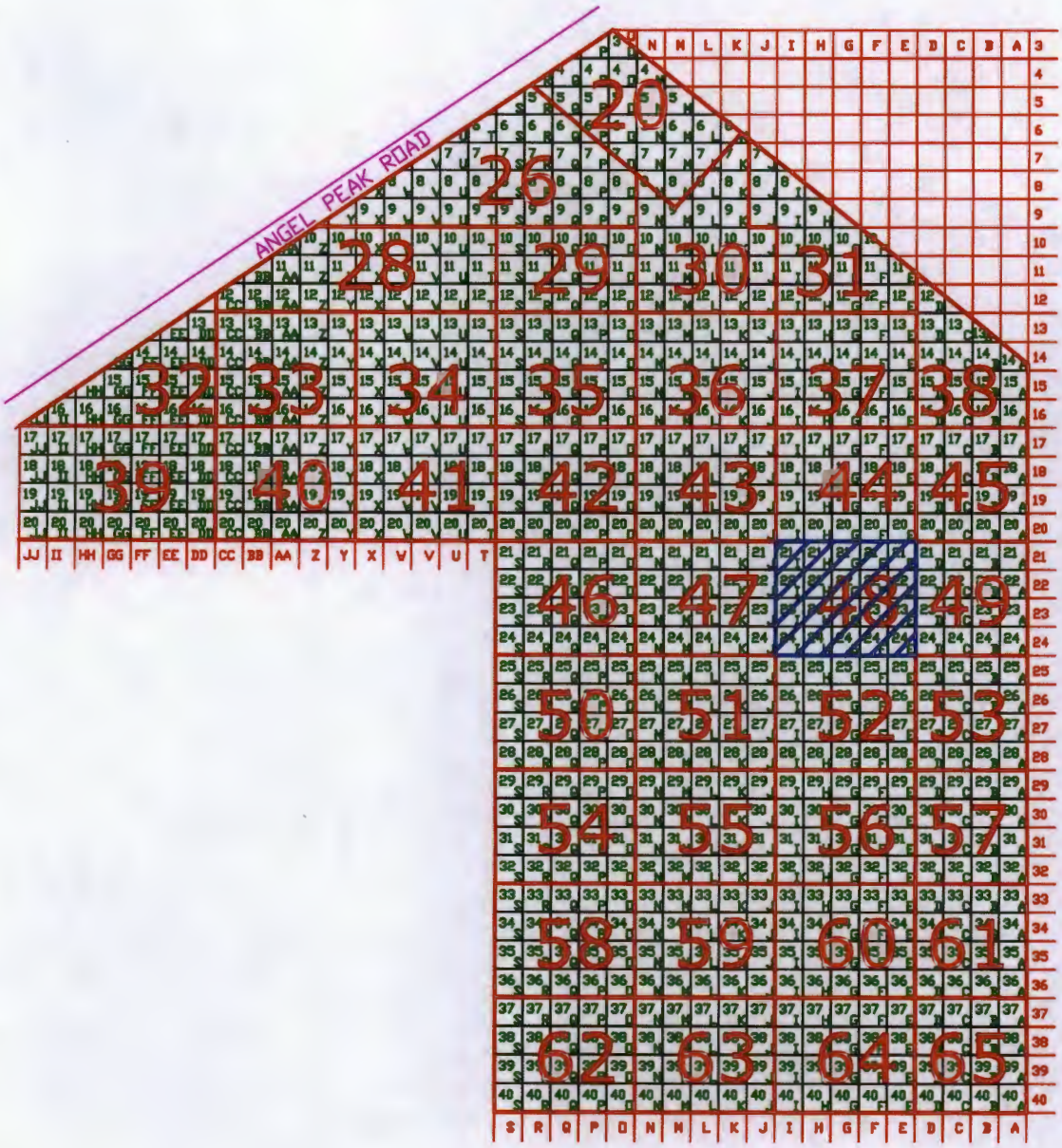
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

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

Respectfully submitted,
Envirotech, Inc.

Keith Johnson
General Manager
kjohnson@envirotech-inc.com

Kendra Runung
Waste Coordinator
krunung@envirotech-inc.com



ENVIROTECH
NMOCD PERMITTED
LANDFARM # 2
UNIT 5
CELL 48

SCALE: 1=100'	FIGURE NO.	REV
PROJECT NO.		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	BWW	9-17-10	BASE DRWN		

envirotech

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

envirotech
Analytical Laboratory

Report Summary

Client: Envirotech

Chain of Custody Number: 13990

Samples Received: 05-21-12

Job Number: 03037-0007

Sample Number(s): 62118-62125

Project Name/Location: Closure Samples/ Landfarm 2 Unit 5

Entire Report Reviewed By: _____ Date: 5/29/12

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

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0007
Sample ID:	Cell 48	Date Reported:	05-23-12
Laboratory Number:	62119	Date Sampled:	05-21-12
Chain of Custody No:	13990	Date Received:	05-21-12
Sample Matrix:	Soil	Date Extracted:	05-22-12
Preservative:	Cool	Date Analyzed:	05-23-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**21.4**	**0.1**
Total Petroleum Hydrocarbons	**21.4**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0007
Sample ID:	Cell 48	Date Reported:	05-25-12
Laboratory Number:	62119	Date Sampled:	05-21-12
Chain of Custody:	13990	Date Received:	05-21-12
Sample Matrix:	Soil	Date Analyzed:	05-24-12
Preservative:	Cool	Date Extracted:	05-23-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**80.6 %**
	1,4-difluorobenzene	**91.6 %**
	Bromochlorobenzene	**95.6 %**

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

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

Comments: Closure Samples/ landfarm 2 Unit 5

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0524BCAL QA/QC	Date Reported:	05-25-12
Laboratory Number:	62118	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-24-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range 0-15%	%Diff.	Blank Conc	Detect. Limit
Benzene	3.9824E-06	3.9824E-06	**0.000**	**ND**	**0.2**
Toluene	3.9107E-06	3.9107E-06	**0.000**	**ND**	**0.2**
Ethylbenzene	4.3705E-06	4.3705E-06	**0.000**	**ND**	**0.2**
p,m-Xylene	3.2202E-06	3.2262E-06	**0.002**	**ND**	**0.2**
o-Xylene	4.4570E-06	4.4570E-06	**0.000**	**ND**	**0.2**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**ND**	**ND**	**0.00**	**0 - 30%**	**10**
Toluene	**27.3**	**27.6**	**0.01**	**0 - 30%**	**10**
Ethylbenzene	**11.3**	**11.7**	**0.04**	**0 - 30%**	**10**
p,m-Xylene	**63.1**	**63.5**	**0.01**	**0 - 30%**	**10**
o-Xylene	**27.1**	**28.4**	**0.05**	**0 - 30%**	**10**

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	**ND**	**2500**	**2640**	**106**	**39 - 150**
Toluene	**27.3**	**2500**	**2700**	**107**	**46 - 148**
Ethylbenzene	**11.3**	**2500**	**2610**	**104**	**32 - 160**
p,m-Xylene	**63.1**	**5000**	**5290**	**104**	**46 - 148**
o-Xylene	**27.1**	**2500**	**2630**	**104**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

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

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

Comments: QA/QC for Samples 62118-62125, 62130 and 62182

13990

CHAIN OF CUSTODY RECORD

Client: Envirotech

Project Name / Location: Closure Samples / Landfarm Unit 5

Email results to: Kendra

Sampler Name: F. Aragon C. Arrigo

Client Phone No.:

Client No.: 03037-0007

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative (ice)	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Cell 46	5-21-12	14:45	62118	1-402			X	X	X								X				X	X
Cell 48		14:50	62119																			
Cell 50		14:55	62120																			
Cell 51		15:00	62121																			
Cell 53		15:10	62122																			
Cell 56		15:15	62123																			
Cell 60		15:20	62124																			
Cell 61		15:30	62125				X	X	X								X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
F. Aragon	5-21-12	1630	[illegible]	5-21-12	1630
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

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

envirotech
Analytical Laboratory

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

san juan reproduction 578-129

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 13990

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03032-0006
PAGE No: 2 of 8

FACILITY LOCATION: Landfarm Unit 5
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 4/8
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 5-21-12
DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

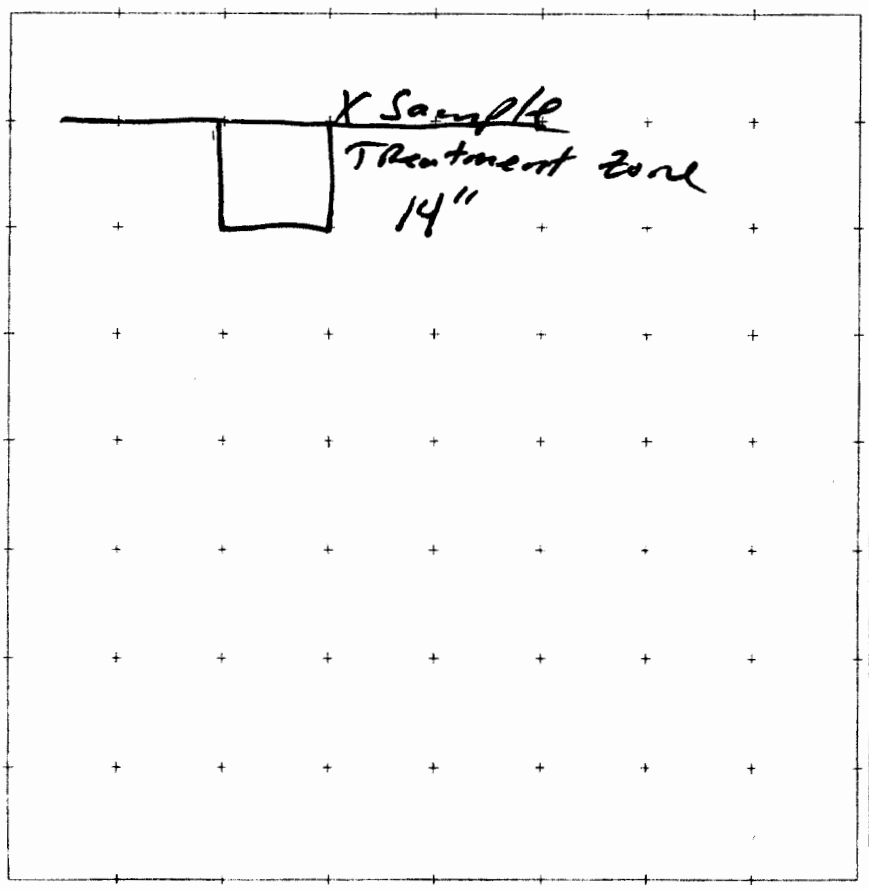
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
Cell 4/8	8015	
	8021	
	OC	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

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

Jami Bailey
Division Director
Oil Conservation Division

July 16, 2012

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

RE: Request for Approval to Apply a Successive Lift
Envirotech, Inc.
Commercial Landfarm #2: Permit NM-1-0011
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM
San Juan County, New Mexico

Dear Ms. Runung:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated July 12, 2012, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 21, 22, 23, 25, and 27**.

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

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

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

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

envirotech

July 12, 2012

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

RE: ENVIROTECH'S REQUEST FOR AN ADDITIONAL LIFT FOR:
CELLS 21, 22, 23, 25, AND 27 IN LANDFARM #2 UNIT 4

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for the application of successive lifts at Envirotech's Land Farm #2 Unit 4 for cells 21, 22, 23, 25 AND 27 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by a green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells must pass laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene prior to the application of successive lifts. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five acres. Additionally, per Envirotech's standard operating procedures for sampling, each sample was comprised of a five-point composite.

The green cells (21, 22, 23, 25 AND 27) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene and total xylenes (see attached Laboratory Results). The BTEX and benzene results are reported in parts per billion (ug/Kg) and TPH is in parts per million (mg/Kg). Envirotech hereby requests these cells be approved for an additional lift.

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

Cell 21: 11333 cy (18")	Cell 22: 8942 cy (14")	Cell 23: 10833 cy (17")
Cell 25: 11054 cy (17")	Cell 27: 9671 cy (14")	

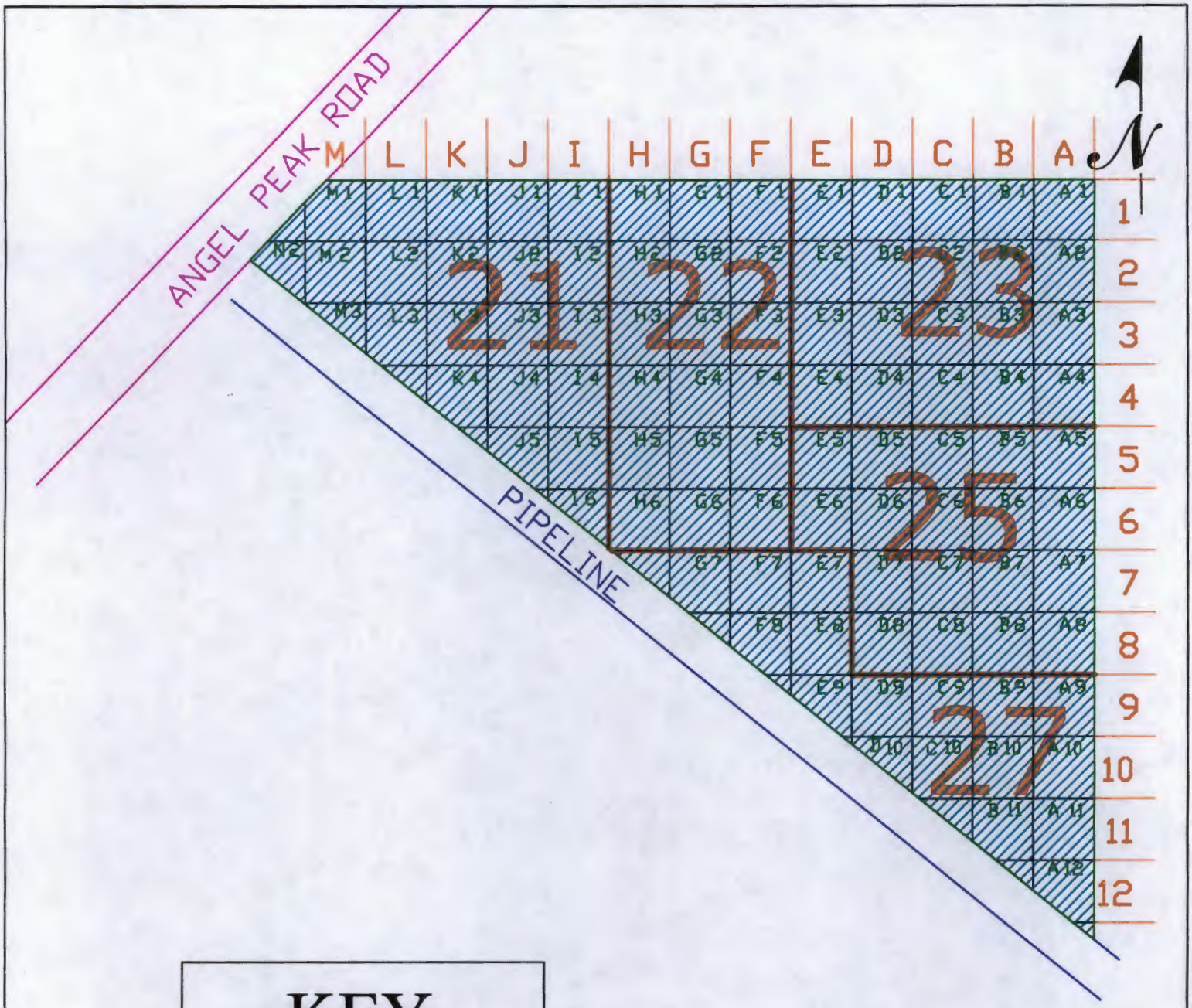
Due to the unusually large amounts of contaminated soil Envirotech has accepted recently, our Land Farm #2 suffers limited space constraints. Envirotech respectfully requests expedition of this matter to be able to serve the Four Corners region without interruption.

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

Respectfully submitted,
Envirotech, Inc.

Keith Johnson
General Manager
kjohnson@envirotech-inc.com

Kendra Runung
Waste Coordinator
krunung@envirotech-inc.com



KEY

A8 CELL LABLES

27 5 ACRE CELL

ENVIROTECH
NMOCD PERMITED
LANDFARM # 2
UNIT 4
REQUEST CELL CLOSURE

SCALE: 1 = 100'	FIGURE NO.	REV
PROJECT NO.		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN		12-7-09	BASE DRWN		

envirotech

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

envirotech
Analytical Laboratory

Report Summary

Client: Envirotech

Chain of Custody Number: 14886

Samples Received: 06-07-12

Job Number: 03037-0006

Sample Number(s): 62314-62318

Project Name/Location: Land Farm 2 Unit 4 Closure Sampling

Entire Report Reviewed By: Anne Zazozin Date: 06-13-12

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

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 21	Date Reported:	06-11-12
Laboratory Number:	62314	Date Sampled:	06-07-12
Chain of Custody No:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Extracted:	06-08-12
Preservative:	Cool	Date Analyzed:	06-11-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 4 Closure Sampling**

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 22	Date Reported:	06-11-12
Laboratory Number:	62315	Date Sampled:	06-07-12
Chain of Custody No:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Extracted:	06-08-12
Preservative:	Cool	Date Analyzed:	06-11-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**6.7**	**0.1**
Total Petroleum Hydrocarbons	**6.7**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 4 Closure Sampling**

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 23	Date Reported:	06-11-12
Laboratory Number:	62316	Date Sampled:	06-07-12
Chain of Custody No:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Extracted:	06-08-12
Preservative:	Cool	Date Analyzed:	06-11-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**8.5**	**0.1**
Total Petroleum Hydrocarbons	**8.5**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 4 Closure Sampling**

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 25	Date Reported:	06-11-12
Laboratory Number:	62317	Date Sampled:	06-07-12
Chain of Custody No:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Extracted:	06-08-12
Preservative:	Cool	Date Analyzed:	06-11-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 4 Closure Sampling**

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 27	Date Reported:	06-11-12
Laboratory Number:	62318	Date Sampled:	06-07-12
Chain of Custody No:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Extracted:	06-08-12
Preservative:	Cool	Date Analyzed:	06-11-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 4 Closure Sampling**

envirotech
Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0611TCAL QA/QC	Date Reported:	06-11-12
Laboratory Number:	62335	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-11-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	06-11-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	06-11-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**

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

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

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**253**	**101%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**289**	**116%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

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

Comments: **QA/QC for Samples 62314-62324 and 62335**

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 21	Date Reported:	06-12-12
Laboratory Number:	62314	Date Sampled:	06-07-12
Chain of Custody:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Analyzed:	06-11-12
Preservative:	Cool	Date Extracted:	06-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**85.2 %**
	1,4-difluorobenzene	**88.6 %**
	Bromochlorobenzene	**85.7 %**

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

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

Comments: Landfarm 2 Unit 4 Closure Sampling

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 22	Date Reported:	06-12-12
Laboratory Number:	62315	Date Sampled:	06-07-12
Chain of Custody:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Analyzed:	06-11-12
Preservative:	Cool	Date Extracted:	06-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**81.2 %**
	1,4-difluorobenzene	**86.7 %**
	Bromochlorobenzene	**85.6 %**

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

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

Comments: Landfarm 2 Unit 4 Closure Sampling

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 23	Date Reported:	06-12-12
Laboratory Number:	62316	Date Sampled:	06-07-12
Chain of Custody:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Analyzed:	06-11-12
Preservative:	Cool	Date Extracted:	06-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**85.0 %**
	1,4-difluorobenzene	**87.0 %**
	Bromochlorobenzene	**86.4 %**

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

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

Comments: Landfarm 2 Unit 4 Closure Sampling

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 25	Date Reported:	06-12-12
Laboratory Number:	62317	Date Sampled:	06-07-12
Chain of Custody:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Analyzed:	06-11-12
Preservative:	Cool	Date Extracted:	06-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**85.0 %**
	1,4-difluorobenzene	**88.9 %**
	Bromochlorobenzene	**81.0 %**

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

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

Comments: Landfarm 2 Unit 4 Closure Sampling

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Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	03037-0006
Sample ID:	Cell 27	Date Reported:	06-12-12
Laboratory Number:	62318	Date Sampled:	06-07-12
Chain of Custody:	14886	Date Received:	06-07-12
Sample Matrix:	Soil	Date Analyzed:	06-11-12
Preservative:	Cool	Date Extracted:	06-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**82.3 %**
	1,4-difluorobenzene	**87.9 %**
	Bromochlorobenzene	**87.2 %**

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

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

Comments: Landfarm 2 Unit 4 Closure Sampling

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0611BCAL QA/QC	Date Reported:	06-12-12
Laboratory Number:	62335	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-11-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0-15%			
Benzene	7.1867E-06	7.1867E-06	0.000	ND	0.2
Toluene	7.0133E-06	7.0133E-06	0.000	ND	0.2
Ethylbenzene	7.7974E-06	7.7974E-06	0.000	ND	0.2
p,m-Xylene	5.7679E-06	5.7679E-06	0.000	ND	0.2
o-Xylene	8.3643E-06	8.3643E-06	0.000	ND	0.2

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

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2790	112	39 - 150
Toluene	ND	2500	2760	110	46 - 148
Ethylbenzene	ND	2500	2730	109	32 - 160
p,m-Xylene	ND	5000	5420	108	46 - 148
o-Xylene	ND	2500	2740	110	46 - 148

ND - Parameter not detected at the stated detection limit.

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

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

Comments: QA/QC for Samples 662314-62318, 62290-62292 and 62335

14886

CHAIN OF CUSTODY RECORD

Client: Envirotech

Project Name / Location: Closure Sampling Land Farm 2 unit 4

Email results to: Kendra Punung

Sampler Name: K. Peine

Client Phone No.:

Client No.: 03037-0006

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative HgCl2	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Cell 21	6-7-12	10:30	62314	1 4oz Jar			X	X	X								X				X	X
Cell 22	6-7-12	10:45	62315	1 4oz Jar			X	X	X								X					
Cell 23	6-7-12	11:00	62316	1 4oz Jar			X	X	X								X					
Cell 25	6-7-12	11:30	62317	1 4oz Jar			X	X	X								X					
Cell 27	6-7-12	11:45	62318	1 4oz Jar			X	X	X								X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Tony Peine	6-7-12	13:15	[illegible]	6-7-12	1315
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☑ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

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

envirotech
Analytical Laboratory

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 141886

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: _____
PAGE No: 1 of ____

FACILITY LOCATION: Landfarm 2 unit 4
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 21 Closure
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 6-7-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Peine

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: ____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

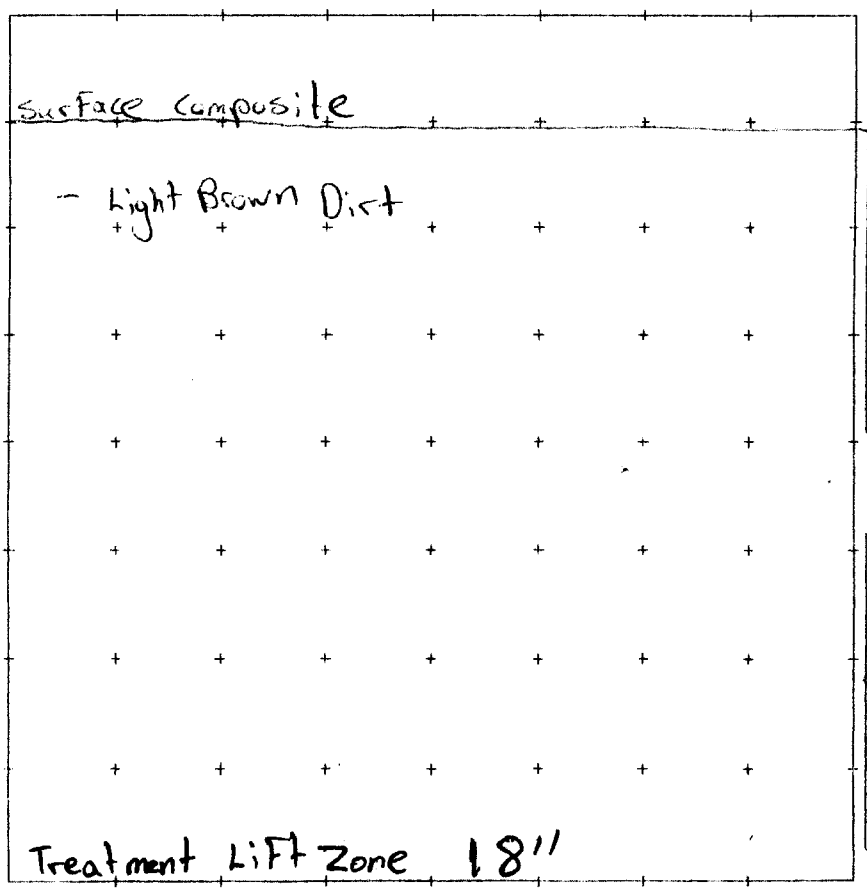
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED:	RESULTS PPM:
Cell 21	8015	
Cell 21	8021	
Cell 21	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 14886

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: _____
PAGE No: ____ of ____

FACILITY LOCATION: Landfarm 2 unit 4
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 22 Closure
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 6-7-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Peire

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: ____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

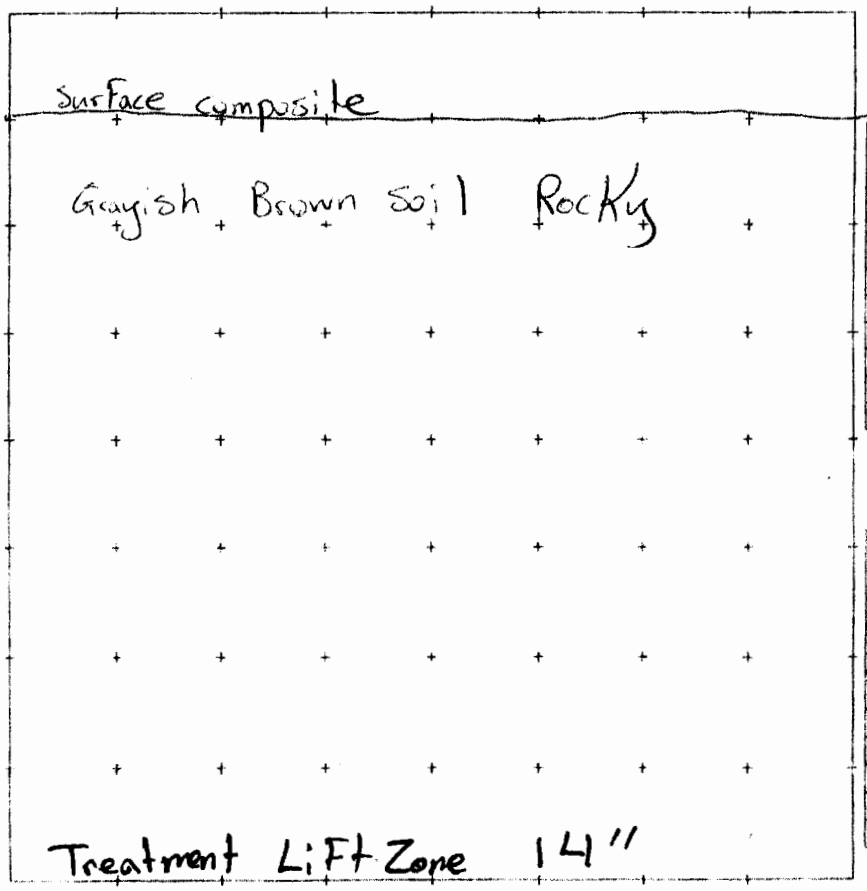
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID.	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
Cell 22	8015	
Cell 22	8021	
Cell 22	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 14886

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: _____
PAGE No: ____ of ____

FACILITY LOCATION: Landfarm 2 unit 4
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 23
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 6-7-19
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Peire

SOIL REMEDIATION. QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

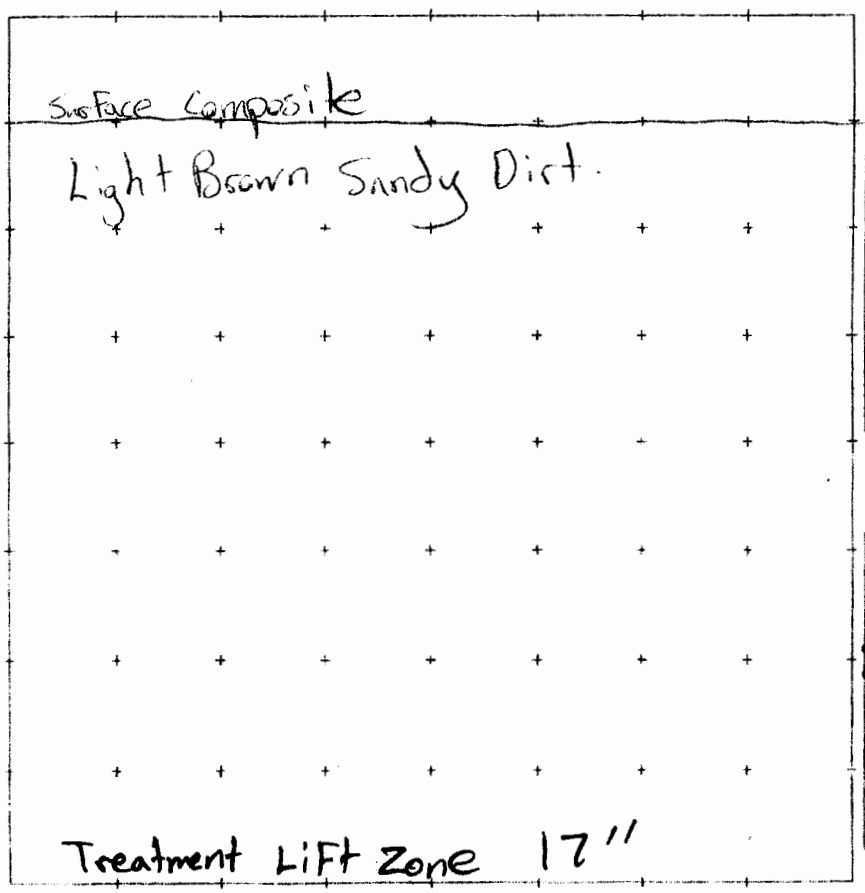
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
Cell 23	8015	
Cell 23	8021	
Cell 23	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 14886

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: _____
PAGE No: ____ of ____

FACILITY LOCATION: LandFarm 2 unit 4
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 25
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 6-7-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Paine

SOIL REMEDIATION. QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

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

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

FACILITY DIAGRAM

GRID SCALE:

Surface Composite

Brown Rocky Soil with light Gray and white Leachy Dirt

Treatment Lift Zone 17"

OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
Cell 25	8015	
Cell 25	8021	
Cell 25	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 14886

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: _____
PAGE No: ___ of ___

FACILITY LOCATION: Landfarm 2 unit 4
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 27
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 6-7-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: K. Peine

SOIL REMEDIATION. QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

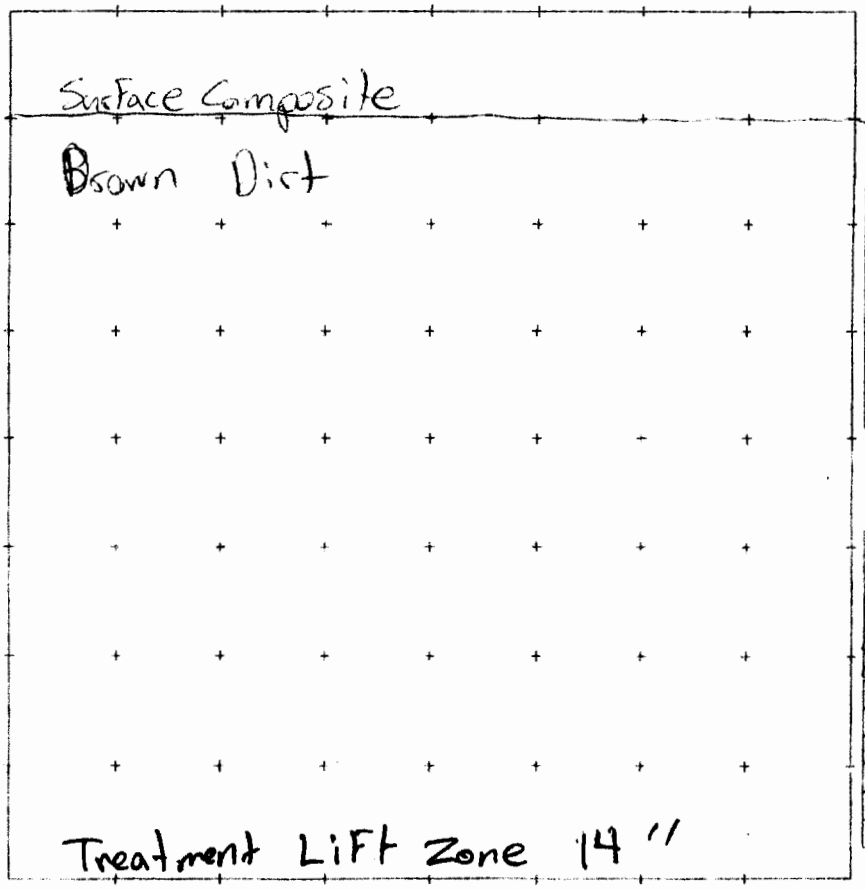
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
Cell 27	SOIL	
Cell 27	SOIL	
Cell 27	Chlor	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

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

Jami Bailey
Division Director
Oil Conservation Division

March 22, 2012

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

RE: Request for Approval to Apply a Successive Lift
Envirotech, Inc.
Commercial Landfarm #2: Permit NM-1-0011
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 March 19, 2012, to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 31, 47, 49, 52, 54, 55, 58, 59, 62, 63, 64, and 65**.

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

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

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

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

envirotech

March 19, 2012

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

RECEIVED OCD 2012 MAR 21 P 12:29

RE: ENVIROTECH'S DISCONTINUED MAINTENANCE AND ADDITIONAL LIFT FOR: CELLS 31, 47, 49, 52, 54, 55, 58, 59, 62, 63, 64, AND 65 IN LANDFARM 2 UNIT 5

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for discontinued maintenance at Envirotech's Land Farm #2 Unit 5 for cells 31, 47, 49, 52, 54, 55, 58, 59, 62, 63, 64, AND 65 in Landfarm 2 located at #43 Road 7175, South of Bloomfield, New Mexico. The area being submitted is shown on the attached map, marked by green crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2002, all cells being requested for discontinued maintenance have passed laboratory analysis with results of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm benzene. In addition, Envirotech has sampled for chlorides. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five acres. Samples were five-point composites. Vadose zone sampling maps with depth measurements are included.

The green cells (31, 47, 49, 52, 54, 55, 58, 59, 62, 63, 64, AND 65) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene and total xylenes as well as chlorides (see attached laboratory results). The BTEX and benzene results are reported in parts per billion (ug/Kg), TPH is in parts per million (mg/Kg). Envirotech hereby requests these cells be granted discontinued maintenance status and approval to apply an additional lift of qualifying material to these cells.

Given the parameter for cubic yardages of 15,000 or less to be applied in each five (5) acre cell, we are happy to provide the following cubic yard amounts and depth of the treatment zone in a unit in each cell up to this time:

Cell 31: 10294 cy (15")	Cell 47: 10829 cy (16")	Cell 49: 9645 cy (14")
Cell 52: 11065 cy (16")	Cell 54: 7962 cy (12")	Cell 55: 9331 cy (14")
Cell 58: 8656 cy (13")	Cell 59: 8820 cy (13")	Cell 62: 8280 cy (12")
Cell 63: 9406 cy (14")	Cell 64: 8401 cy (13")	Cell 65: 9162 cy (14")

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

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

Respectfully submitted,
Envirotech, Inc.

Keith Johnson
General Manager
kjohnson@envirotech-inc.com

Kendra Runung
Waste Coordinator
krunung@envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified Nonhalogenated Volatile Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 31	Date Reported:	02-07-12
Laboratory Number:	61029	Date Sampled:	02-01-12
Chain of Custody No:	13346	Date Received:	02-01-12
Sample Matrix:	Soil	Date Extracted:	02-02-12
Preservative:	Cool	Date Analyzed:	02-06-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**30.3**	**0.1**
Total Petroleum Hydrocarbons	**30.3**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

Analyst

Review

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

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified Nonhalogenated Volatile Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 47	Date Reported:	02-07-12
Laboratory Number:	61026	Date Sampled:	02-01-12
Chain of Custody No:	13346	Date Received:	02-01-12
Sample Matrix:	Soil	Date Extracted:	02-02-12
Preservative:	Cool	Date Analyzed:	02-06-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

Analyst

Review

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
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Analytical Laboratory

EPA METHOD 8015 Modified Nonhalogenated Volatile Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 49	Date Reported:	02-07-12
Laboratory Number:	61028	Date Sampled:	02-01-12
Chain of Custody No:	13346	Date Received:	02-01-12
Sample Matrix:	Soil	Date Extracted:	02-02-12
Preservative:	Cool	Date Analyzed:	02-06-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**31.3**	**0.1**
Total Petroleum Hydrocarbons	**31.3**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

Analyst

Review

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-06-12 QA/QC	Date Reported:	02-07-12
Laboratory Number:	61034	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-06-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40945	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	40945	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**3.9**	**0.2**
Diesel Range C10 - C28	**4.2**	**0.1**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.00%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.00%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**293**	**117%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**291**	**116%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 61019-61034 and 61051-61052**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 31	Date Reported:	02-07-12
Laboratory Number:	61029	Date Sampled:	02-01-12
Chain of Custody:	13346	Date Received:	02-01-12
Sample Matrix:	Soil	Date Analyzed:	02-07-12
Preservative:	Cool	Date Extracted:	02-02-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**102 %**
	1,4-difluorobenzene	**113 %**
	Bromochlorobenzene	**105 %**

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

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 47	Date Reported:	02-07-12
Laboratory Number:	61026	Date Sampled:	02-01-12
Chain of Custody:	13346	Date Received:	02-01-12
Sample Matrix:	Soil	Date Analyzed:	02-07-12
Preservative:	Cool	Date Extracted:	02-02-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**ND**	**10.0**
Ethylbenzene	**30.8**	**10.0**
p,m-Xylene	**145**	**10.0**
o-Xylene	**32.7**	**10.0**
Total BTEX	**209**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**105 %**
	1,4-difluorobenzene	**117 %**
	Bromochlorobenzene	**119 %**

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

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 49	Date Reported:	02-07-12
Laboratory Number:	61028	Date Sampled:	02-01-12
Chain of Custody:	13346	Date Received:	02-01-12
Sample Matrix:	Soil	Date Analyzed:	02-07-12
Preservative:	Cool	Date Extracted:	02-02-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**12.9**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**ND**	**10.0**
o-Xylene	**ND**	**10.0**
Total BTEX	**12.9**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**105 %**
	1,4-difluorobenzene	**115 %**
	Bromochlorobenzene	**104 %**

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

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0207BBLK QA/QC	Date Reported:	02-07-12
Laboratory Number:	61025	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-07-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	1.6731E+007	1.6764E+007	0.2%	ND	1.0
Toluene	1.7140E+007	1.7174E+007	0.2%	ND	1.0
Ethylbenzene	1.5047E+007	1.5077E+007	0.2%	ND	1.0
p,m-Xylene	3.8895E+007	3.8973E+007	0.2%	ND	1.0
o-Xylene	1.3995E+007	1.4023E+007	0.2%	ND	1.0

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	10.0
Toluene	10.4	10.3	1.0%	0 - 30%	10.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	10.0
p,m-Xylene	16.7	14.4	13.8%	0 - 30%	10.0
o-Xylene	ND	ND	0.0%	0 - 30%	10.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	528	106%	39 - 150
Toluene	10.4	500	537	105%	46 - 148
Ethylbenzene	ND	500	518	104%	32 - 160
p,m-Xylene	16.7	1000	1,040	102%	46 - 148
o-Xylene	ND	500	512	102%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

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

Comments: **QA/QC for Samples 61025-61034**

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 31	Date Reported:	02-07-12
Lab ID#:	61029	Date Sampled:	02-01-12
Sample Matrix:	Soil	Date Received:	02-01-12
Preservative:	Cool	Date Analyzed:	02-03-12
Condition:	Intact	Chain of Custody:	13346

Parameter	Concentration (mg/Kg)
Total Chloride	**100**

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 47	Date Reported:	02-07-12
Lab ID#:	61026	Date Sampled:	02-01-12
Sample Matrix:	Soil	Date Received:	02-01-12
Preservative:	Cool	Date Analyzed:	02-03-12
Condition:	Intact	Chain of Custody:	13346

Parameter	Concentration (mg/Kg)
Total Chloride	**40**

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

Analyst

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 49	Date Reported:	02-07-12
Lab ID#:	61028	Date Sampled:	02-01-12
Sample Matrix:	Soil	Date Received:	02-01-12
Preservative:	Cool	Date Analyzed:	02-03-12
Condition:	Intact	Chain of Custody:	13346

Parameter	Concentration (mg/Kg)
Total Chloride	**20**

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

Comments: **Closure Samples/ Landfarm 2 Unit 5**

Analyst

Review

CHAIN OF CUSTODY RECORD

13346

Client:	Project Name / Location:
Envirotech	Closure Samples / Lindham Unit 5
Email results to: Kendra	Sampler Name: F. Aragon
Client Phone No.:	Client No.: 1-02-60002

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative ICE	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Cell 46	2-1-12	10:13	61025	1-4oz			X	X	X								X				X	X
Cell 47		10:18	61026																			
Cell 48		10:27	61027																			
Cell 49		10:35	61028																			
Cell 31		10:40	61029				X	X	X								X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
F. Aragon	2-1-12	15:40	Duane S. Hammer	2-1-12	3:52
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

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

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 52	Date Reported:	03-13-12
Laboratory Number:	61328	Date Sampled:	03-07-12
Chain of Custody No:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-12-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**38.8**	**0.1**
Total Petroleum Hydrocarbons	**38.8**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

Review

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 54	Date Reported:	03-13-12
Laboratory Number:	61330	Date Sampled:	03-07-12
Chain of Custody No:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-12-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**16.1**	**0.1**
Total Petroleum Hydrocarbons	**16.1**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 55	Date Reported:	03-13-12
Laboratory Number:	61331	Date Sampled:	03-07-12
Chain of Custody No:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-12-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**65.9**	**0.1**
Total Petroleum Hydrocarbons	**65.9**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 58	Date Reported:	03-13-12
Laboratory Number:	61334	Date Sampled:	03-07-12
Chain of Custody No:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-12-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**73.6**	**0.1**
Total Petroleum Hydrocarbons	**73.6**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #59	Date Reported:	03-13-12
Laboratory Number:	61335	Date Sampled:	03-07-12
Chain of Custody No:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-12-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**2.8**	**0.1**
Total Petroleum Hydrocarbons	**2.8**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0312TCAL QA/QC	Date Reported:	03-13-12
Laboratory Number:	61335	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-12-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	03-12-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	03-12-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**

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

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**2.8**	**2.8**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**288**	**115%**	**75 - 125%**
Diesel Range C10 - C28	**2.8**	**250**	**266**	**105%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

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

Comments: **QA/QC for Samples 61326-61335**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 52	Date Reported:	03-14-12
Laboratory Number:	61328	Date Sampled:	03-07-12
Chain of Custody:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-14-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**26.5**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**52.9**	**10.0**
o-Xylene	**18.6**	**10.0**
Total BTEX	**98.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**88.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.1 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

Analyst

Review

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Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 54	Date Reported:	03-14-12
Laboratory Number:	61330	Date Sampled:	03-07-12
Chain of Custody:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-14-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**12.3**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**13.9**	**10.0**
o-Xylene	**ND**	**10.0**
Total BTEX	**26.2**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**91.8 %**
	1,4-difluorobenzene	**102 %**
	Bromochlorobenzene	**110 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 55	Date Reported:	03-14-12
Laboratory Number:	61331	Date Sampled:	03-07-12
Chain of Custody:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-14-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**87.6 %**
	1,4-difluorobenzene	**98.1 %**
	Bromochlorobenzene	**109 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 58	Date Reported:	03-14-12
Laboratory Number:	61334	Date Sampled:	03-07-12
Chain of Custody:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-14-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**11.8**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**10.9**	**10.0**
o-Xylene	**ND**	**10.0**
Total BTEX	**22.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.7 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**109 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 59	Date Reported:	03-14-12
Laboratory Number:	61335	Date Sampled:	03-07-12
Chain of Custody:	13521	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-14-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**10.9**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**13.3**	**10.0**
o-Xylene	**10.2**	**10.0**
Total BTEX	**34.4**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**105 %**
	Bromochlorobenzene	**104 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0314BCAL QA/QC	Date Reported:	03-14-12
Laboratory Number:	61326	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-14-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range 0-15%	%Diff.	Blank Conc.	Detect. Limit
Benzene	4.9064E-06	4.9064E-06	0.000	ND	0.2
Toluene	4.8411E-06	4.8411E-06	0.000	ND	0.2
Ethylbenzene	5.5298E-06	5.5298E-06	0.000	ND	0.2
p,m-Xylene	4.1330E-06	4.1330E-06	0.000	ND	0.2
o-Xylene	5.9837E-06	5.9837E-06	0.000	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	ND	ND	0.00	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	15.0	15.7	0.05	0 - 30%	10
o-Xylene	10.1	10.4	0.03	0 - 30%	10

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2320	93	39 - 150
Toluene	ND	2500	2290	92	46 - 148
Ethylbenzene	ND	2500	2250	90	32 - 160
p,m-Xylene	15.0	5000	4510	90	46 - 148
o-Xylene	10.1	2500	2250	90	46 - 148

ND - Parameter not detected at the stated detection limit.

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

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

Comments: QA/QC for Samples 61326-61335

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #52	Date Reported:	03-09-12
Lab ID#:	61328	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13521

Parameter	Concentration (mg/Kg)
Total Chloride	**360**

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

Comments: **Landfarm 2 Unit 5 Closure**

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #54	Date Reported:	03-09-12
Lab ID#:	61330	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13521

Parameter	Concentration (mg/Kg)
Total Chloride	**80**

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

Comments: **Landfarm 2 Unit 5 Closure**

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #55	Date Reported:	03-09-12
Lab ID#:	61331	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13521

Parameter	Concentration (mg/Kg)
Total Chloride	**120**

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

Comments: **Landfarm 2 Unit 5 Closure**

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #59	Date Reported:	03-09-12
Lab ID#:	61335	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13521

Parameter	Concentration (mg/Kg)
Total Chloride	**70**

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

Comments: **Landfarm 2 Unit 5 Closure**

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CHAIN OF CUSTODY RECORD

13521

Client: Envirotech

Project Name / Location: LandFarm 2 unit 5 Closure

Email results to: Kendra Running

Sampler Name: K. Peine, F. Aragon

Client Phone No.:

Client No.: 1-02-60001

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Cell # 50	3-7-12	10:44	61326	1 4oz Jar			X	X	X								X				X	X
Cell # 51	3-7-12	10:46	61327	1 4oz Jar			X	X	X								X					
Cell # 52	3-7-12	10:48	61328	1 4oz Jar			X	X	X								X					
Cell # 53	3-7-12	10:50	61329	1 4oz Jar			X	X	X								X					
Cell # 54	3-7-12	10:53	61330	1 4oz Jar			X	X	X								X					
Cell # 55	3-7-12	10:55	61331	1 4oz Jar			X	X	X								X					
Cell # 56	3-7-12	11:00	61332	1 4oz Jar			X	X	X								X					
Cell # 57	3-7-12	11:03	61333	1 4oz Jar			X	X	X								X					
Cell # 58	3-7-12	11:07	61334	1 4oz Jar			X	X	X								X					
Cell # 59	3-7-12	11:10	61335	1 4oz Jar			X	X	X								X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Tony Peine	3-7-12	16:30	Miriam Jor	3-7-12	1630
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☑ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

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

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 62	Date Reported:	03-12-12
Laboratory Number:	61338	Date Sampled:	03-07-12
Chain of Custody No:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 63	Date Reported:	03-12-12
Laboratory Number:	61339	Date Sampled:	03-07-12
Chain of Custody No:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 64	Date Reported:	03-12-12
Laboratory Number:	61340	Date Sampled:	03-07-12
Chain of Custody No:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 65	Date Reported:	03-12-12
Laboratory Number:	61341	Date Sampled:	03-07-12
Chain of Custody No:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Extracted:	03-08-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	0309TCAL QA/QC	Date Reported:	03-12-12
Laboratory Number:	61315	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-09-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	03-09-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	03-09-12	9.9960E+02	1.0000E+03	**0.04%**	**0 - 15%**

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

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

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**232**	**92.7%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**213**	**85.2%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

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

Comments: **QA/QC for Samples 61315 and 61336-61341**

Analyst

Review

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Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 62	Date Reported:	03-13-12
Laboratory Number:	61338	Date Sampled:	03-07-12
Chain of Custody:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-12-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**15.9**	**10.0**
Ethylbenzene	**14.5**	**10.0**
p,m-Xylene	**106**	**10.0**
o-Xylene	**31.9**	**10.0**
Total BTEX	**168**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**105 %**
	1,4-difluorobenzene	**105 %**
	Bromochlorobenzene	**109 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 63	Date Reported:	03-13-12
Laboratory Number:	61339	Date Sampled:	03-07-12
Chain of Custody:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-12-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**17.4**	**10.0**
Ethylbenzene	**10.2**	**10.0**
p,m-Xylene	**19.0**	**10.0**
o-Xylene	**17.0**	**10.0**
Total BTEX	**63.5**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**116 %**
	1,4-difluorobenzene	**110 %**
	Bromochlorobenzene	**114 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 64	Date Reported:	03-13-12
Laboratory Number:	61340	Date Sampled:	03-07-12
Chain of Custody:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-12-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**10.9**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**14.3**	**10.0**
o-Xylene	**13.9**	**10.0**
Total BTEX	**39.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**114 %**
	1,4-difluorobenzene	**111 %**
	Bromochlorobenzene	**119 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell # 65	Date Reported:	03-13-12
Laboratory Number:	61341	Date Sampled:	03-07-12
Chain of Custody:	13522	Date Received:	03-07-12
Sample Matrix:	Soil	Date Analyzed:	03-12-12
Preservative:	Cool	Date Extracted:	03-08-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**ND**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**ND**	**10.0**
o-Xylene	**12.6**	**10.0**
Total BTEX	**12.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**114 %**
	1,4-difluorobenzene	**116 %**
	Bromochlorobenzene	**117 %**

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

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

Comments: Landfarm 2 Unit 5 Closure

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0312BCAL QA/QC	Date Reported:	03-13-12
Laboratory Number:	61268	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-12-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range 0-15%	%Diff	Blank Conc	Detect Limit
Benzene	4.6587E-06	4.6358E-06	0.005	ND	0.2
Toluene	4.5622E-06	4.5631E-06	0.000	ND	0.2
Ethylbenzene	5.2155E-06	5.1522E-06	0.012	ND	0.2
p,m-Xylene	3.8405E-06	3.8075E-06	0.009	ND	0.2
o-Xylene	5.4440E-06	5.4947E-06	0.009	ND	0.2

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

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2580	103	39 - 150
Toluene	ND	2500	2570	103	46 - 148
Ethylbenzene	ND	2500	2580	103	32 - 160
p,m-Xylene	ND	5000	5140	103	46 - 148
o-Xylene	ND	2500	2530	101	46 - 148

ND - Parameter not detected at the stated detection limit.

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

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

Comments: QA/QC for Samples 61268-61269, 61315 and 61336-61341

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #62	Date Reported:	03-09-12
Lab ID#:	61338	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13522

Parameter	Concentration (mg/Kg)
Total Chloride	**110**

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #63	Date Reported:	03-09-12
Lab ID#:	61339	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13522

Parameter	Concentration (mg/Kg)
Total Chloride	**200**

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #64	Date Reported:	03-09-12
Lab ID#:	61340	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13522

Parameter	Concentration (mg/Kg)
Total Chloride	**ND**

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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Chloride

Client:	Envirotech	Project #:	1-02-60001
Sample ID:	Cell #65	Date Reported:	03-09-12
Lab ID#:	61341	Date Sampled:	03-07-12
Sample Matrix:	Soil	Date Received:	03-07-12
Preservative:	Cool	Date Analyzed:	03-09-12
Condition:	Intact	Chain of Custody:	13522

Parameter	Concentration (mg/Kg)
Total Chloride	**ND**

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

Comments: **Landfarm 2 Unit 5 Closure**

Analyst

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CHAIN OF CUSTODY RECORD

13522

Client: Envirotech	Project Name / Location: LandFarm 2unit 5 closure
Email results to: Kendra Runung	Sampler Name: F. Aragon K. Peine
Client Phone No.:	Client No.: 1-02-60001

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative HgCl2	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Cell # 60	3-7-12	11:09	61336	1 4oz Jar			X	X	X								X				Y	Y
Cell # 61	3-7-12	11:12	61337	1 4oz Jar			X	X	X								X					
Cell # 62	3-7-12	11:15	61338	1 4oz Jar			X	X	X								X					
Cell # 63	3-7-12	11:15	61339	1 4oz Jar			X	X	X								X					
Cell # 64	3-7-12	11:20	61340	1 4oz Jar			X	X	X								X					
Cell # 65	3-7-12	11:25	61341	1 4oz Jar			X	X	X								X					

	Date	Time		Date	Time
Relinquished by: (Signature) Mary Peine	3-7-12	16:30	Received by: (Signature) [signature]	3-7-12	16:30
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix
Soil ☑ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

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

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san juan reproduction 578-129

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 13346

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0007
PAGE No: 1 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: Cell 31
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:

ENVIRONMENTAL SPECIALIST: E. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

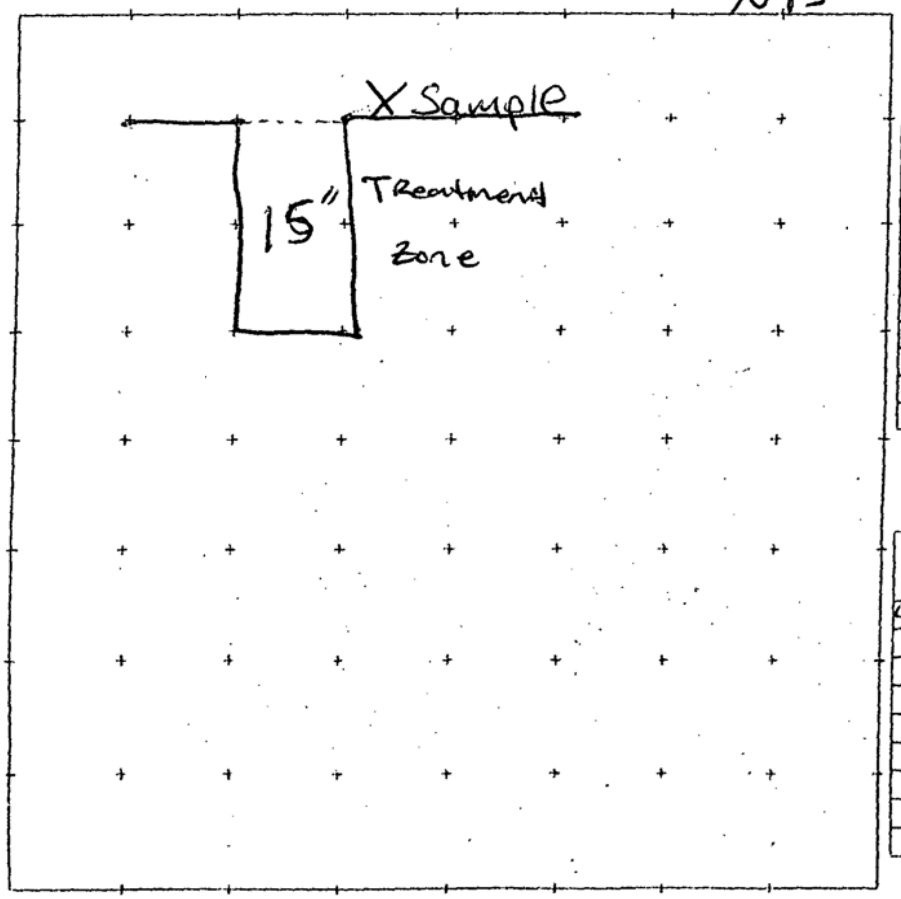
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM
Cell 31	8015	
	8021	
	7500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
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PIT No:
C.O.C #: 73346

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0004
PAGE No: 5 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: Cell 47
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

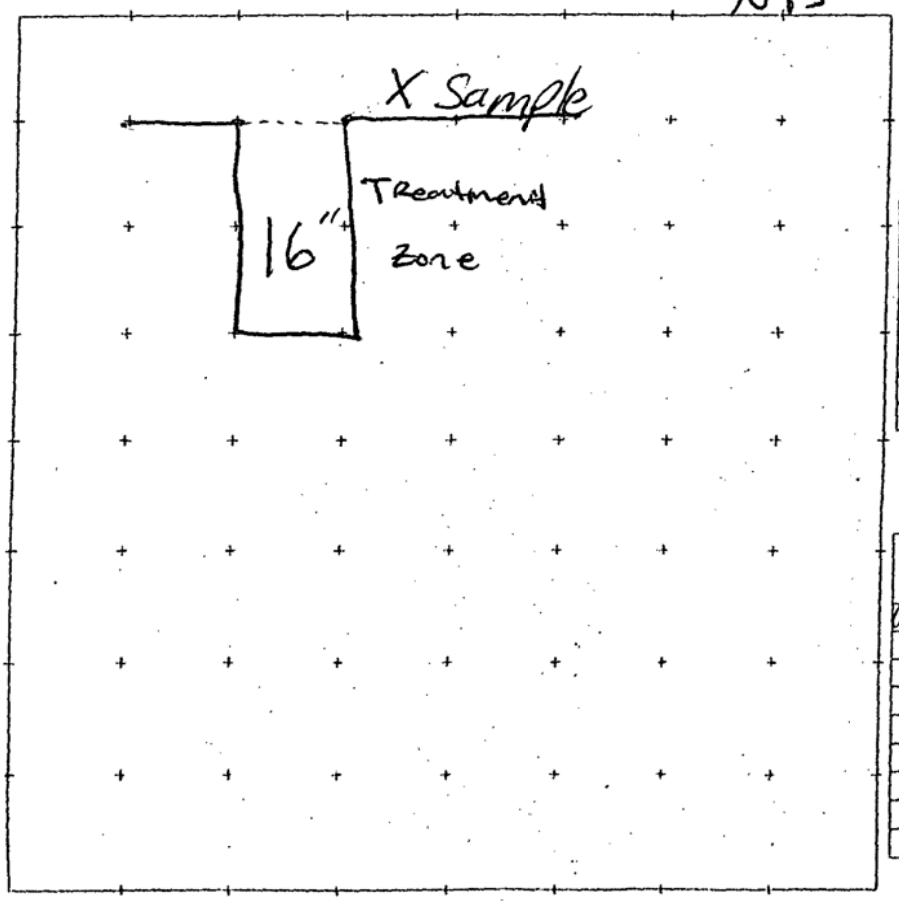
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
Cell 47	8015	
	8021	
	9500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
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PIT No: _____
C.O.C #: 13346

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0004
PAGE No: 9 of 12

FACILITY LOCATION: Landfarm 2 unit 5 Closure
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 49
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 2-1-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: 5
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

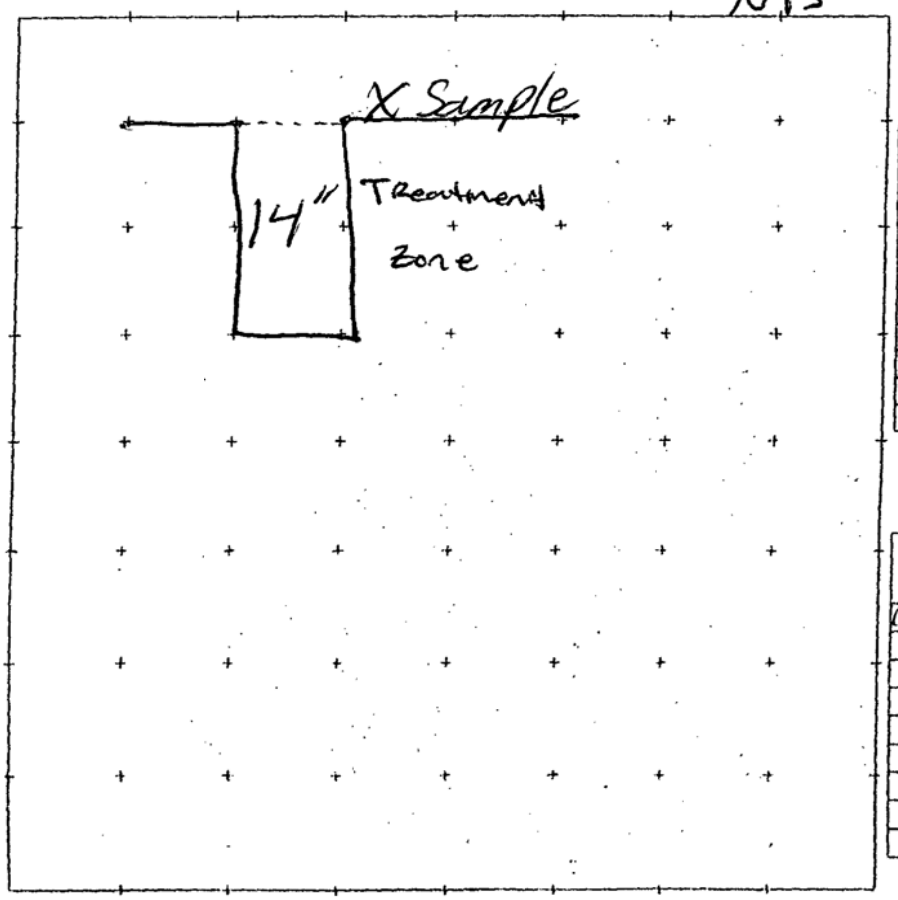
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
Cell 49	8015	
	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: B521

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0004
PAGE No: 2 of 12

FACILITY LOCATION: Landfarm 2 unit 5 Closure
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 52
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 2-1-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: 5
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

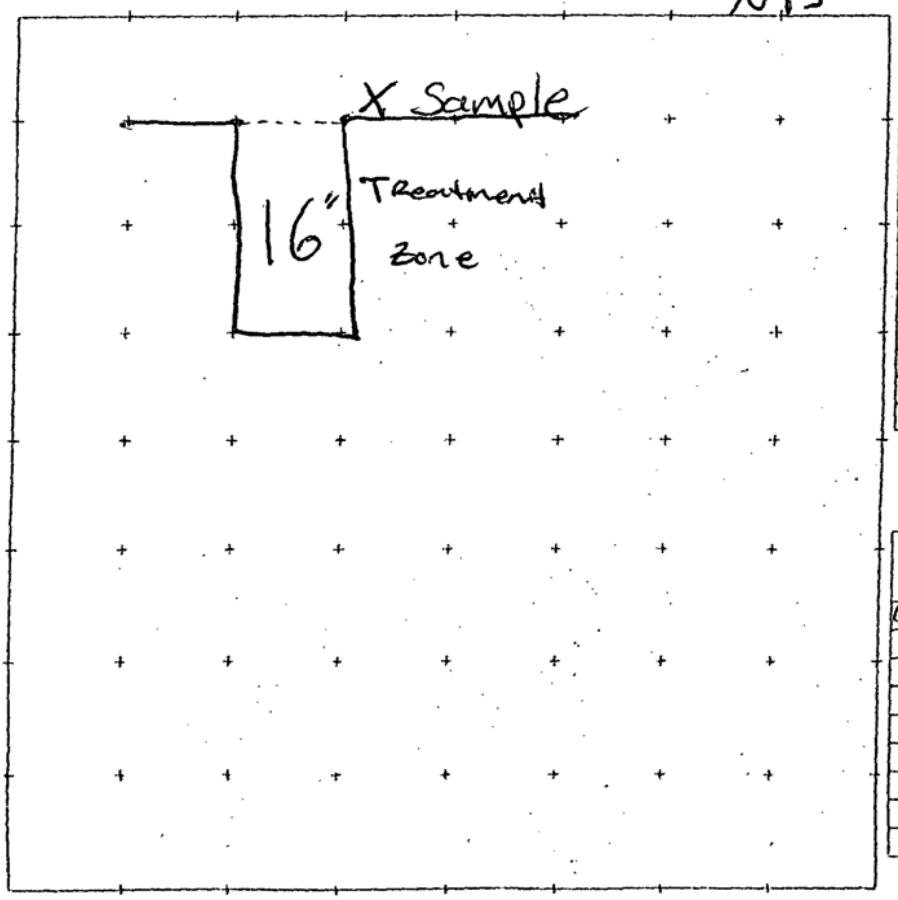
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
Cell 52	8015	
	8021	
	9500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH, Inc.

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PIT No:
C.O.C #: 13521

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0007
PAGE No: 6 of 12

FACILITY LOCATION: Landfarm 2 unit 5
SOURCE LOCATION:
SOURCE LOCATION: Cell 54
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

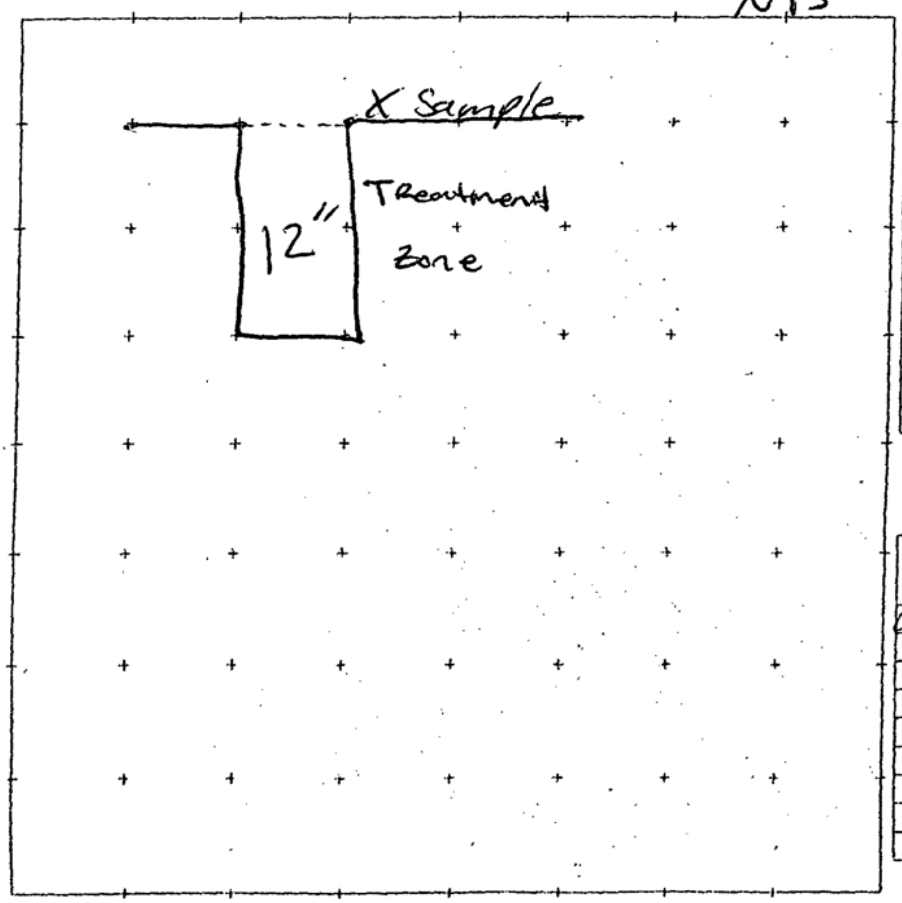
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM
Cell 54	8015	
	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

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PIT No: _____
C.O.C #: 13521

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0007
PAGE No: 11 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION: _____
SOURCE LOCATION: Cell 55
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 2-1-12
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: 5
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

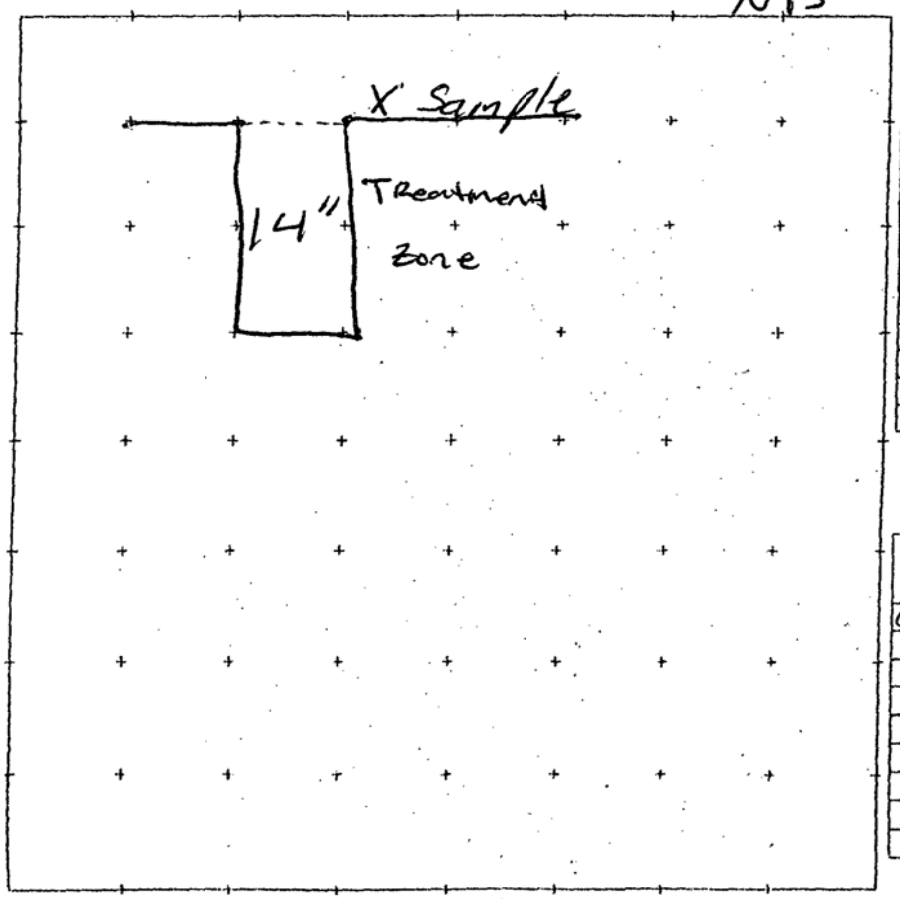
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM
Cell 55	8015	
	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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PIT No:
C.O.C #: 13521

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0007
PAGE No: 3 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: Cell 58
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

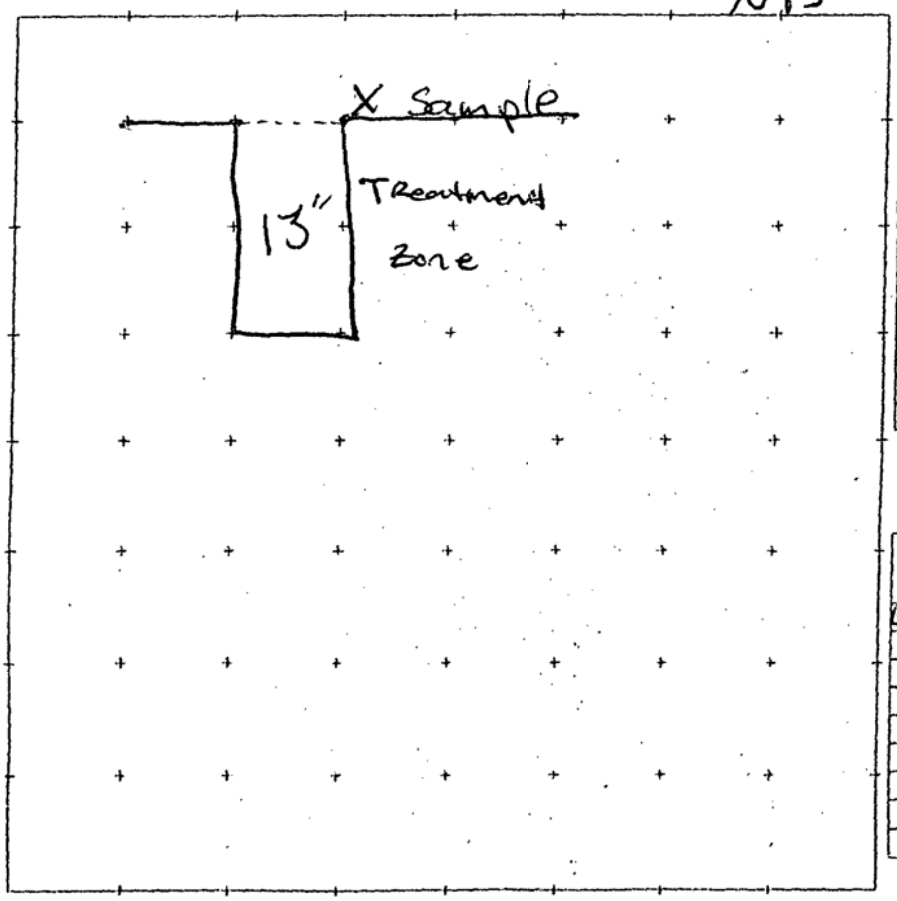
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM
Cell 58	8015	
	8021	
	9500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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PIT No:
C.O.C #: 13521

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0007
PAGE No: 7 of 12

FACILITY LOCATION: Landform Zunit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: Cell 59
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

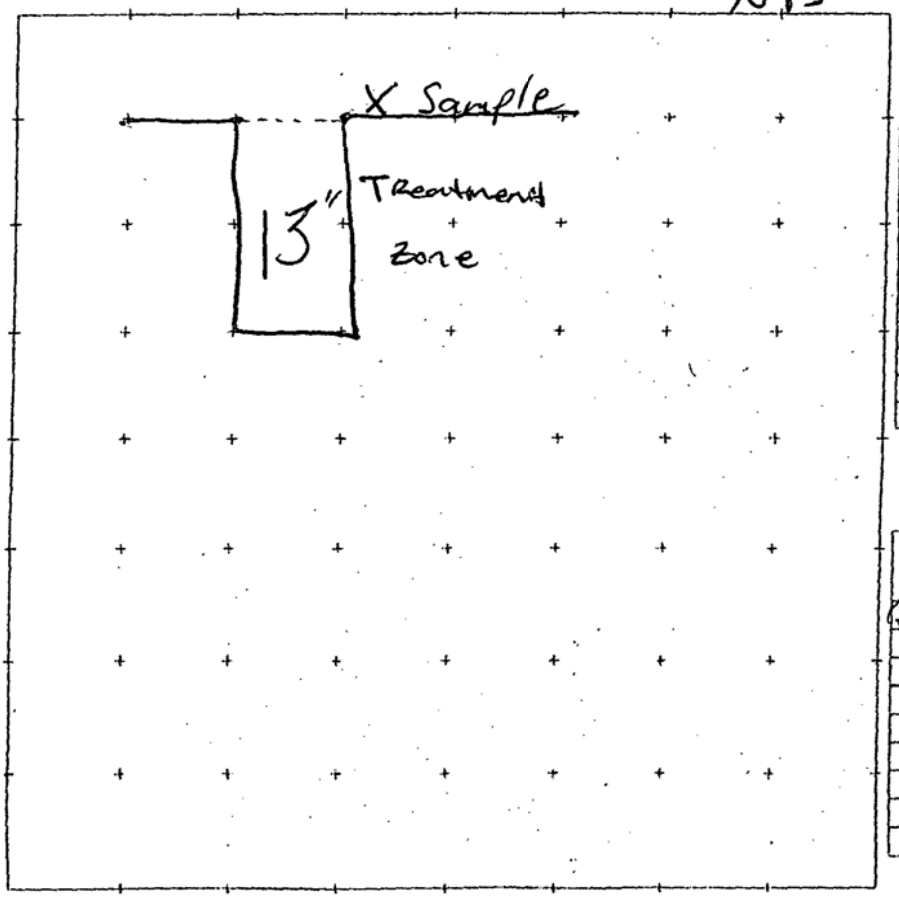
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
Cell 59	8015	
	8021	
	9500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 13522

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0004
PAGE No: 10 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: cell 62
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

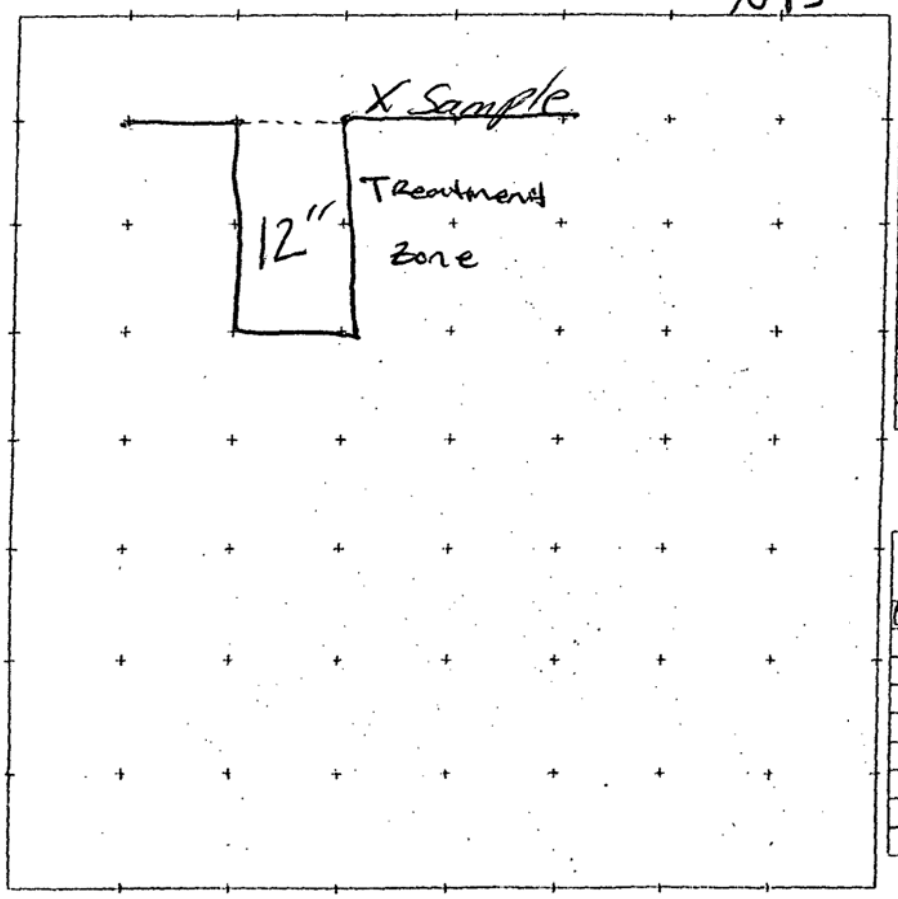
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
Cell 62	8015	
	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 13522

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0004
PAGE No: 4 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: Cell 63
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

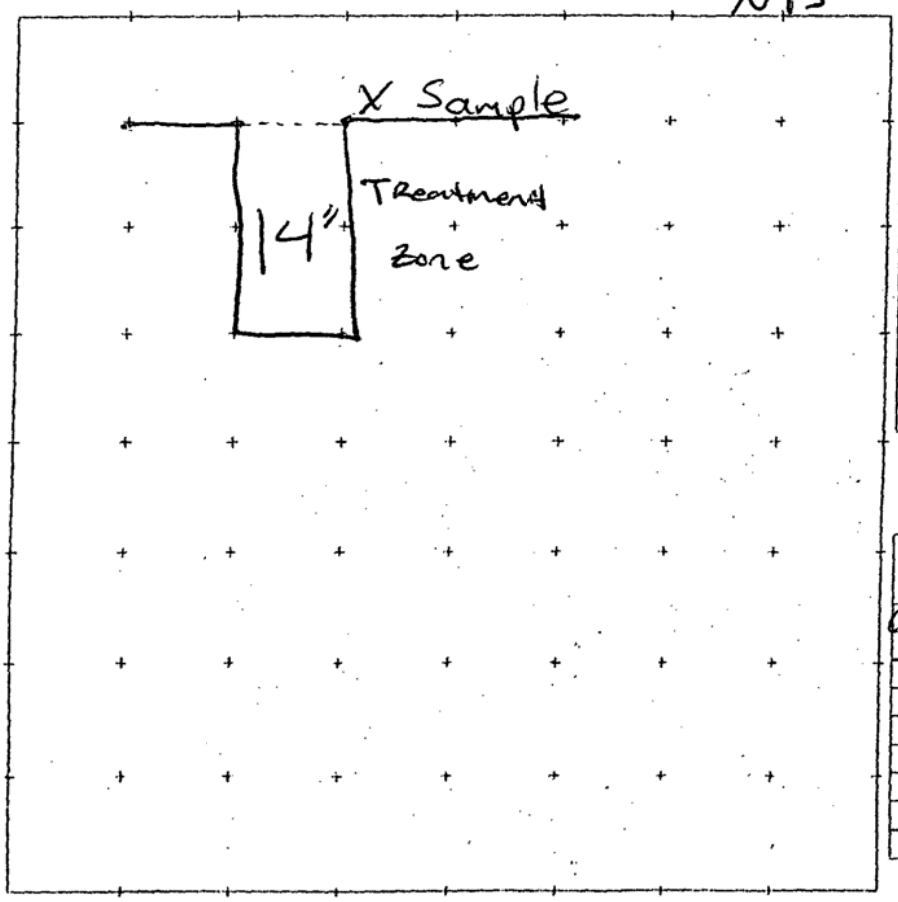
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM
Cell 63	8015	
	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 13522

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0004
PAGE No: 8 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: Cell 64
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

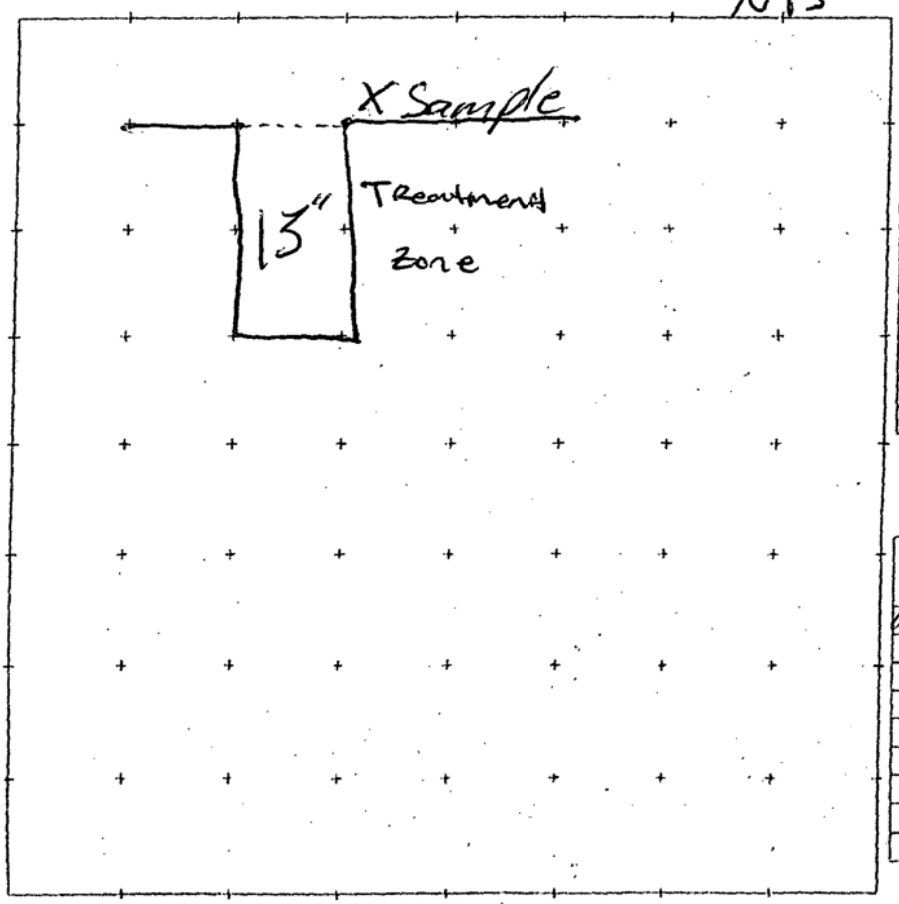
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
Cell 64	8015	
	8021	
	9500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 13522

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 03037-0007
PAGE No: 12 of 12

FACILITY LOCATION: Landfarm 2 unit 5 closure
SOURCE LOCATION:
SOURCE LOCATION: Cell 65
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 2-1-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: E. Aragon

SOIL REMEDIATION: QUANTITY: # OF COMP. SAMPLES: 5
DIMENSIONS:
VISIBLE OBSERVATIONS:
SAMPLING PLAN:

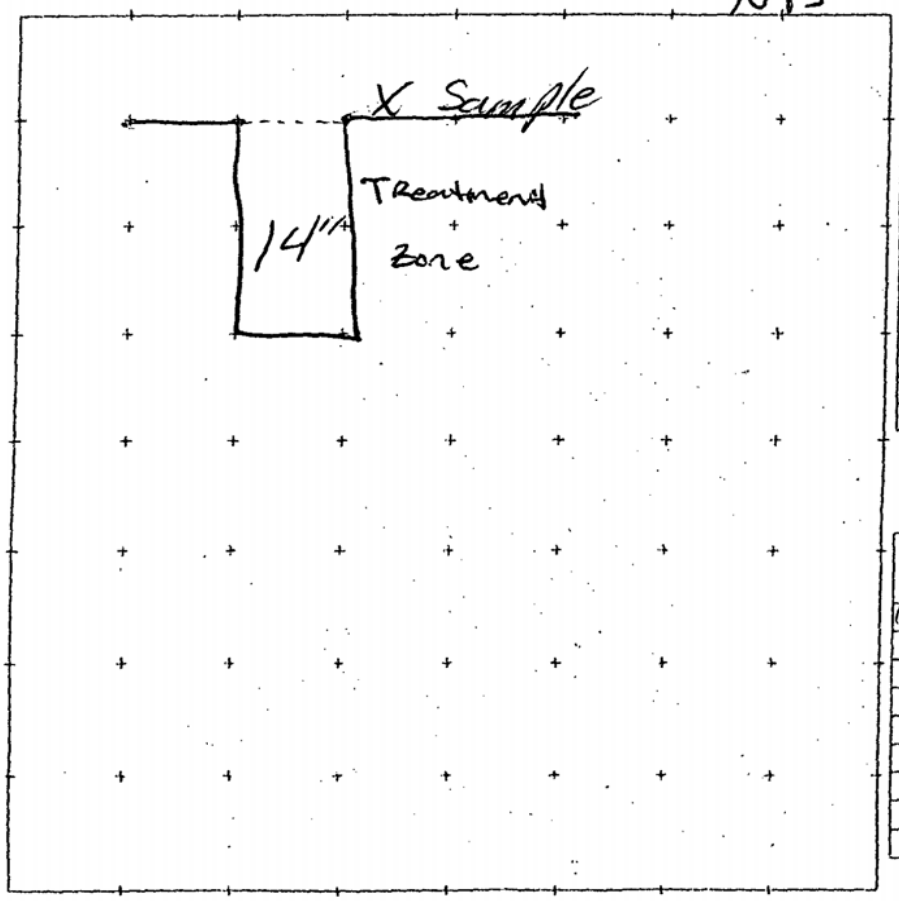
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: NTS



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
Cell 65	8015	
	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

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

Jami Bailey
Division Director
Oil Conservation Division

December 13, 2011

Keith Johnson
Envirotech, Inc.
5796 US Highway 64
Farmington, New Mexico 87401

RE: Request for Approval to Apply a Successive Lift
Envirotech, Inc.
Commercial Landfarm #2: Permit NM-1-0011
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM
San Juan County, New Mexico

Dear Mr. Johnson:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated December 8, 2011 to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 32, 35, 36, 42, 44, and 45**.

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

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

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

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

envirotech

December 8, 2011

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

RECEIVED OCD
2011 DEC 12 AM 8:15

RE: ENVIROTECH'S DISCONTINUED MAINTENANCE AND ADDITIONAL LIFT FOR: CELLS 32, 35, 36, 42, 44 AND 45 IN LANDFARM 2 UNIT 5.

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for discontinued maintenance at Envirotech's Land Farm #2 Unit 5 for cells 32, 35, 36, 42, 44 AND 45 in Landfarm 2 located near Hilltop, New Mexico. The area being submitted is shown on the attached map, marked by blue crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2000 all cells being requested for discontinued maintenance have passed laboratory analysis of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm Benzene. In addition, Envirotech has sampled for chlorides. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five acres. Samples were five-point composites. Vadose zone sampling maps with depth measurements are included.

The blue cells (32, 35, 36, 42, 44 AND 45) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene and total xylenes as well as chlorides (see attached laboratory results). The BTEX and Benzene results are reported in parts per billion (ug/Kg), TPH is in parts per million (mg/Kg). Envirotech hereby requests these cells be granted discontinued maintenance status and approval to apply an additional lift of qualifying material to these cells.

Given the parameter for cubic yardages of 15,000 or less to be applied in each five (5) acre cell, we are happy to provide the following cubic yard amounts and depth of the treatment zone in a unit in each cell up to this time:

Cell 32: 7,065 cy (11")	Cell 35: 9,197 cy (14")	Cell 36: 10,054 cy (16")
Cell 42: 11,165 cy (18")	Cell 44: 11,031 cy (18")	Cell 45: 10,557 cy (17")

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

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

Respectfully submitted,
Envirotech, Inc.

Keith Johnson
General Manager
kjohnson@envirotech-inc.com

April E. Pohl
Landfarm Administrator
apohl@envirotech-inc.com

AEP/Office/Corporate/LF/DCMaintenance-addedlift/12-8-11

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 44	Date Reported:	11-07-11
Laboratory Number:	60138	Date Sampled:	10-28-11
Chain of Custody No:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Extracted:	11-01-11
Preservative:	Cool	Date Analyzed:	11-01-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.2**	**0.2**
Diesel Range (C10 - C28)	**73.1**	**0.1**
Total Petroleum Hydrocarbons	**74.3**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 32	Date Reported:	11-07-11
Laboratory Number:	60139	Date Sampled:	10-28-11
Chain of Custody No:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Extracted:	11-01-11
Preservative:	Cool	Date Analyzed:	11-01-11
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 45	Date Reported:	11-07-11
Laboratory Number:	60140	Date Sampled:	10-28-11
Chain of Custody No:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Extracted:	11-01-11
Preservative:	Cool	Date Analyzed:	11-01-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.4**	**0.2**
Diesel Range (C10 - C28)	**4.5**	**0.1**
Total Petroleum Hydrocarbons	**4.9**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 42	Date Reported:	11-07-11
Laboratory Number:	60141	Date Sampled:	10-28-11
Chain of Custody No:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Extracted:	11-01-11
Preservative:	Cool	Date Analyzed:	11-01-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**3.9**	**0.2**
Diesel Range (C10 - C28)	**55.4**	**0.1**
Total Petroleum Hydrocarbons	**59.3**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 36	Date Reported:	11-07-11
Laboratory Number:	60144	Date Sampled:	10-28-11
Chain of Custody No:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Extracted:	11-01-11
Preservative:	Cool	Date Analyzed:	11-01-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.5**	**0.2**
Diesel Range (C10 - C28)	**1.9**	**0.1**
Total Petroleum Hydrocarbons	**2.4**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 35	Date Reported:	11-07-11
Laboratory Number:	60146	Date Sampled:	10-28-11
Chain of Custody No:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Extracted:	11-01-11
Preservative:	Cool	Date Analyzed:	11-01-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.3**	**0.2**
Diesel Range (C10 - C28)	**60.9**	**0.1**
Total Petroleum Hydrocarbons	**61.2**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-01-11 QA/QC	Date Reported:	11-07-11
Laboratory Number:	60156	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-01-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40848	1.005E+03	1.005E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	40848	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**2.9**	**0.2**
Diesel Range C10 - C28	**3.2**	**0.1**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	**20.4**	**21.0**	**3.1%**	**0 - 30%**
Diesel Range C10 - C28	**10.1**	**8.6**	**15.1%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**20.4**	**250**	**273**	**101%**	**75 - 125%**
Diesel Range C10 - C28	**10.1**	**250**	**262**	**101%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 60156, 60137-60146.**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 44	Date Reported:	11-07-11
Laboratory Number:	60138	Date Sampled:	10-28-11
Chain of Custody:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Analyzed:	11-02-11
Preservative:	Cool	Date Extracted:	11-02-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**84.8 %**
	1,4-difluorobenzene	**85.3 %**
	Bromochlorobenzene	**88.6 %**

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

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 32	Date Reported:	11-07-11
Laboratory Number:	60139	Date Sampled:	10-28-11
Chain of Custody:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Analyzed:	11-02-11
Preservative:	Cool	Date Extracted:	11-02-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94.3 %**
	1,4-difluorobenzene	**92.3 %**
	Bromochlorobenzene	**102 %**

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

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 45	Date Reported:	11-07-11
Laboratory Number:	60140	Date Sampled:	10-28-11
Chain of Custody:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Analyzed:	11-02-11
Preservative:	Cool	Date Extracted:	11-02-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**89.4 %**
	1,4-difluorobenzene	**93.8 %**
	Bromochlorobenzene	**102 %**

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

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 42	Date Reported:	11-07-11
Laboratory Number:	60141	Date Sampled:	'10-28-11
Chain of Custody:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Analyzed:	11-02-11
Preservative:	Cool	Date Extracted:	11-02-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**87.1 %**
	1,4-difluorobenzene	**92.4 %**
	Bromochlorobenzene	**108 %**

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

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 36	Date Reported:	11-07-11
Laboratory Number:	60144	Date Sampled:	10-28-11
Chain of Custody:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Analyzed:	11-02-11
Preservative:	Cool	Date Extracted:	11-02-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**92.6 %**
	1,4-difluorobenzene	**93.7 %**
	Bromochlorobenzene	**101 %**

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

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 35	Date Reported:	11-07-11
Laboratory Number:	60146	Date Sampled:	10-28-11
Chain of Custody:	12838	Date Received:	10-28-11
Sample Matrix:	Soil	Date Analyzed:	11-02-11
Preservative:	Cool	Date Extracted:	11-02-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**2.1**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**2.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**91.5 %**
	1,4-difluorobenzene	**92.7 %**
	Bromochlorobenzene	**98.7 %**

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

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1101BBLK QA/QC	Date Reported:	11-02-11
Laboratory Number:	60156	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-01-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.4198E+006	2.4247E+006	0.2%	ND	0.1
Toluene	2.7138E+006	2.7192E+006	0.2%	ND	0.1
Ethylbenzene	2.5188E+006	2.5239E+006	0.2%	ND	0.1
p,m-Xylene	7.0404E+006	7.0545E+006	0.2%	ND	0.1
o-Xylene	2.4542E+006	2.4592E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	230	241	5.1%	0 - 30%	0.9
Toluene	1,660	1,730	4.2%	0 - 30%	1.0
Ethylbenzene	348	373	7.1%	0 - 30%	1.0
p,m-Xylene	750	817	8.9%	0 - 30%	1.2
o-Xylene	303	331	9.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	230	500	784	107%	39 - 150
Toluene	1,660	500	2,180	101%	46 - 148
Ethylbenzene	348	500	877	103%	32 - 160
p,m-Xylene	750	1000	1,800	103%	46 - 148
o-Xylene	303	500	835	104%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

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

Comments: **QA/QC for Sample 60137-60146, 60156.**

Analyst

Review

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Analytical Laboratory

Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 44	Date Reported:	10-31-11
Lab ID#:	60138	Date Sampled:	10-28-11
Sample Matrix:	Soil	Date Received:	10-28-11
Preservative:	Cool	Date Analyzed:	10-31-11
Condition:	Intact	Chain of Custody:	12838

Parameter	Concentration (mg/Kg)
Total Chloride	**60**

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 32	Date Reported:	10-31-11
Lab ID#:	60139	Date Sampled:	10-28-11
Sample Matrix:	Soil	Date Received:	10-28-11
Preservative:	Cool	Date Analyzed:	10-31-11
Condition:	Intact	Chain of Custody:	12838

Parameter	Concentration (mg/Kg)
Total Chloride	**20**

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 45	Date Reported:	10-31-11
Lab ID#:	60140	Date Sampled:	10-28-11
Sample Matrix:	Soil	Date Received:	10-28-11
Preservative:	Cool	Date Analyzed:	10-31-11
Condition:	Intact	Chain of Custody:	12838

Parameter	Concentration (mg/Kg)
Total Chloride	**20**

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 42	Date Reported:	10-31-11
Lab ID#:	60141	Date Sampled:	10-28-11
Sample Matrix:	Soil	Date Received:	10-28-11
Preservative:	Cool	Date Analyzed:	10-31-11
Condition:	Intact	Chain of Custody:	12838

Parameter	Concentration (mg/Kg)
Total Chloride	**240**

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 36	Date Reported:	10-31-11
Lab ID#:	60144	Date Sampled:	10-28-11
Sample Matrix:	Soil	Date Received:	10-28-11
Preservative:	Cool	Date Analyzed:	10-31-11
Condition:	Intact	Chain of Custody:	12838

Parameter	Concentration (mg/Kg)
Total Chloride	**130**

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	Cell 35	Date Reported:	10-31-11
Lab ID#:	60146	Date Sampled:	10-28-11
Sample Matrix:	Soil	Date Received:	10-28-11
Preservative:	Cool	Date Analyzed:	10-31-11
Condition:	Intact	Chain of Custody:	12838

Parameter	Concentration (mg/Kg)
Total Chloride	**250**

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

Comments: **Landfarm 4th Quarter Closures/ Landfarm 2 Unit 5**

Analyst

Review

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CHAIN OF CUSTODY RECORD

12838

Client: E-tech

Project Name / Location: Closures Landfarm 4th quarter / Landfarm Unit 5

Client Address:

Sampler Name: F. Aragon

Client Phone No.:

Client No.: 1-02-60002

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative: $HgCl_2$	Preservative: HCl	Preservative: Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Cell 20 Bio Pile	10-28-11	10:43	60137	Soil / Solid / Sludge / Aqueous	1-4oz			X	X	X								X				✓	✓
Cell 44		12:22	60138	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 32		12:45	60139	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 45		12:30	60140	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 42		12:35	60141	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 29		10:52	60142	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 31		11:22	60143	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 36		11:49	60144	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 38		11:11	60145	Soil / Solid / Sludge / Aqueous																		✓	✓
Cell 35		12:01	60146	Soil / Solid / Sludge / Aqueous																		✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
F. Aragon	10-28-11	14:10	Jenell Nimtura	10-28-11	2:10
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: 12838

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1602-60002
PAGE No: 7 of 15

FACILITY LOCATION: Landfarm 2 Unit 5
SOURCE LOCATION: Cell 35
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 10-28-11
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: F. Aragon

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

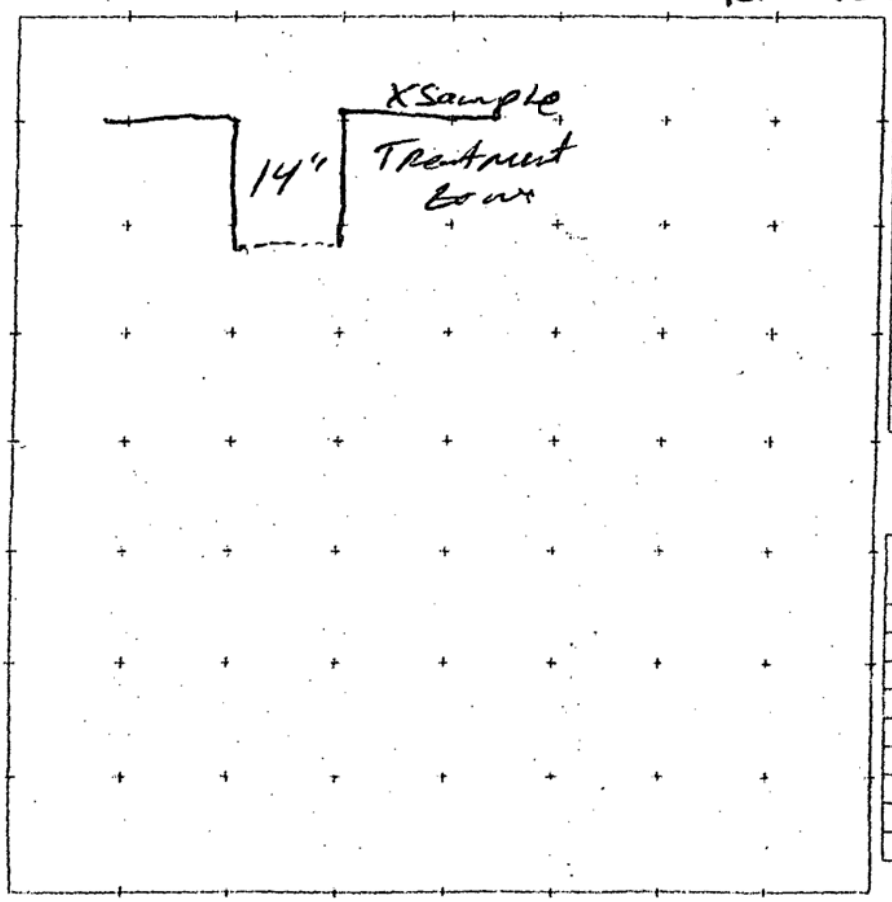
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX _____ YARDS _____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: 1cm = 12 inches (1 foot)



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
35	8015	
I	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 1283

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1-02-60002
PAGE No: 8 of 13

FACILITY LOCATION: Landfarm 2 Unit 5
SOURCE LOCATION: Cell 36
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 10-28-11
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

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

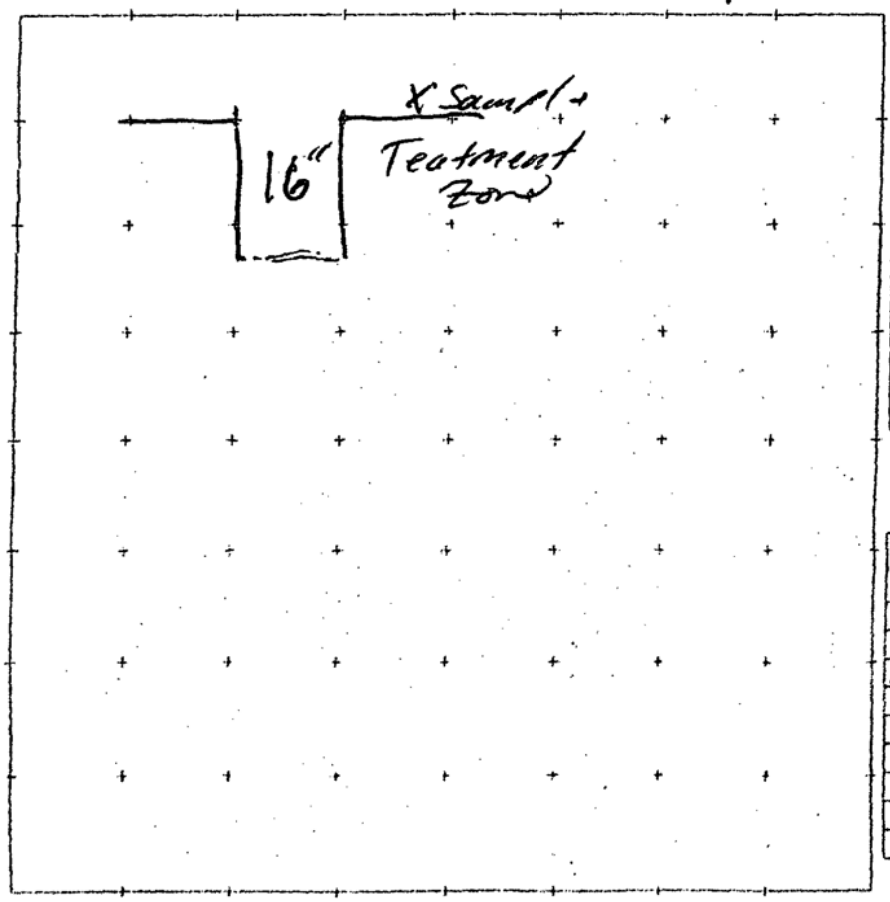
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX ____ YARDS ____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: 1cm = 12 inches (1 foot)



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM:
36	8015	
	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 12838

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1402-60002
PAGE No: 10 of 13

FACILITY LOCATION: Landfarm 2 Unit 5
SOURCE LOCATION: Cell 44
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 10-27-11
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

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

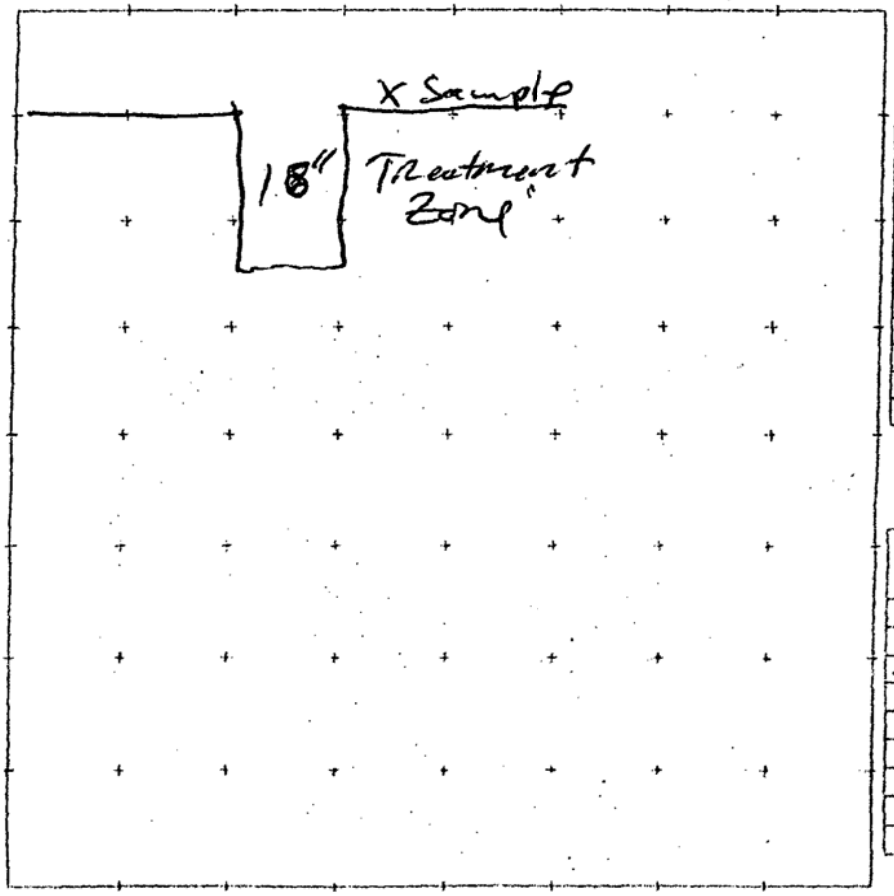
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX ____ YARDS ____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: 1cm = 12 inches (1 foot)



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
44	8015	
I	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 12833

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1-02-60002
PAGE No: 11 of 13

FACILITY LOCATION: Landfarm 2 Unit 5
SOURCE LOCATION: Cell 45
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 10-27-11
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

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

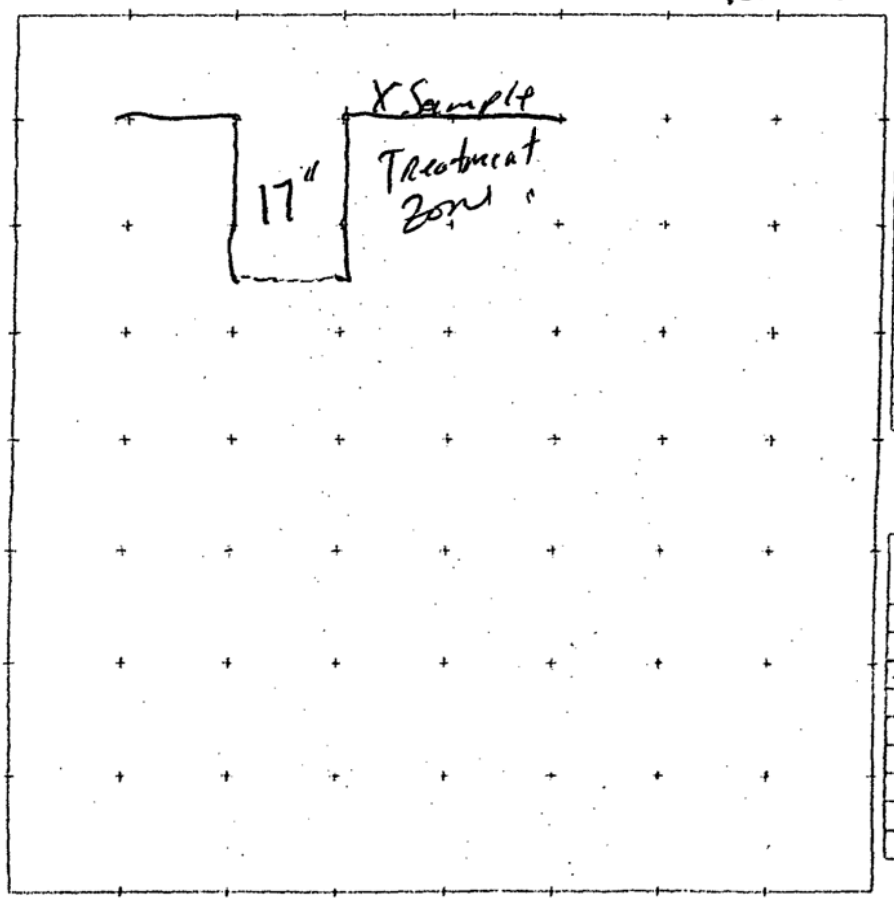
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX ____ YARDS ____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: 1cm = 12 inches (1 foot)



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
45	8015	
	8021	
	418.1	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 12838

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1R02-60002
PAGE No: 12 of 13

FACILITY LOCATION: Landfarm 2 Unit 5
SOURCE LOCATION: Cell 42
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 10-27-11
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

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

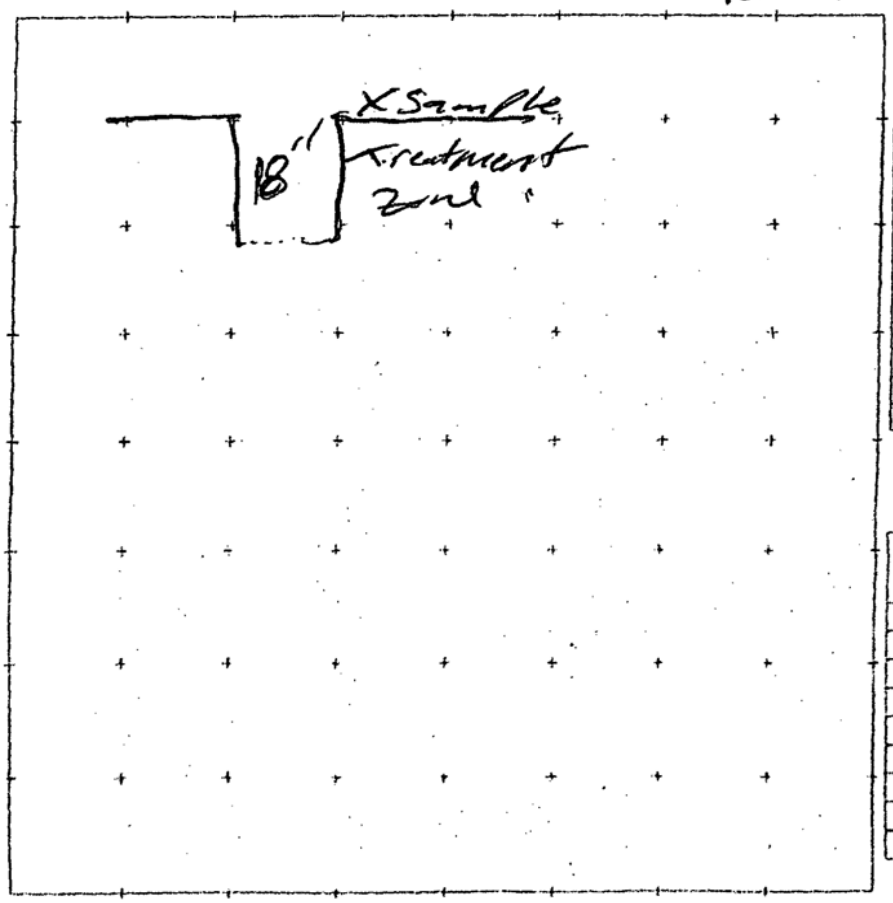
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX ____ YARDS ____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: 1cm = 12 inches (1 foot)



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:
42	8015	
I	8021	
	4500	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No:
C.O.C #: 12858

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1E02-60002
PAGE No: 13 of 13

FACILITY LOCATION: Landfarm 2 Unit 5
SOURCE LOCATION: Cell 32
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: PIT TYPE:

DATE STARTED: 10-27-11
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Aragon

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

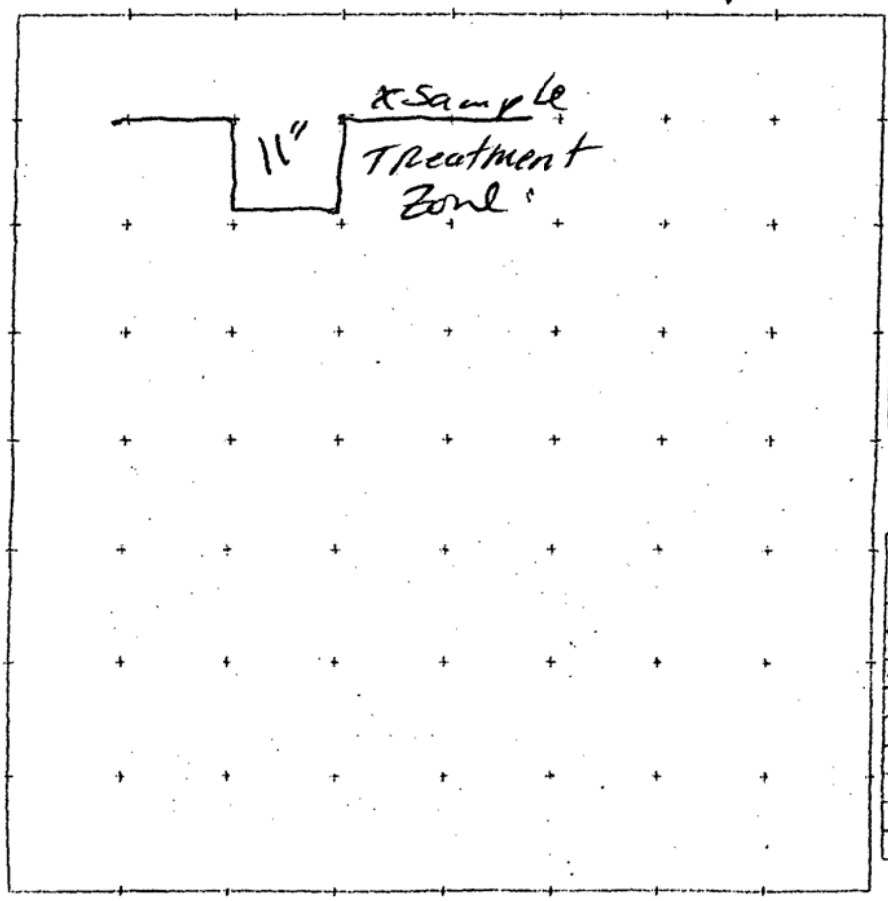
FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX ____ YARDS ____ FROM WELLHEAD.

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

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

FACILITY DIAGRAM

GRID SCALE: 1cm = 12 inches (1 foot)



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM
B2	8015	
	8021	
	4/506	

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary-Designate

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

Jami Bailey
Division Director
Oil Conservation Division

October 24, 2011

Keith Johnson
Envirotech, Inc.
5796 US Highway 64
Farmington, New Mexico 87401

RE: Request for Approval to Apply a Successive Lift
Envirotech, Inc.
Commercial Landfarm #2: Permit NM-1-0011
Location: NW/4 Section 6, Township 26 North, Range 10 West, NMPM
San Juan County, New Mexico

Dear Mr. Johnson:

The Oil Conservation Division (OCD) has reviewed Envirotech, Inc.'s (Envirotech) request, dated October 18, 2011 to grant approval to apply an additional six-inch lift to the following cell(s): **Cells 28, 33, 34, 39, 40, and 41**.

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

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

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

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec

envirotech

RECEIVED OCD

2011 OCT 20 A 12: 06

October 18, 2011

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

RE: ENVIROTECH'S DISCONTINUED MAINTENANCE AND ADDITIONAL LIFT FOR: CELLS 28, 33, 34, 39, 40 AND 41 IN LANDFARM 2 UNIT 5.

Dear Mr. Jones:

Attached please find analytical documentation supporting our request for discontinued maintenance at Envirotech's Land Farm #2 Unit 5 for cells 28, 33, 34, 39, 40 AND 41 in Landfarm 2 located near Hilltop, New Mexico. The area being submitted is shown on the attached map, marked by blue crosshatch design. As per Envirotech's OCD Rule 711 Permit Approval NM 01-0011 dated April 8, 2000 all cells being requested for discontinued maintenance have passed laboratory analysis of less than 100 ppm TPH, 50 ppm BTEX and 10 ppm Benzene. In addition, Envirotech has sampled for chlorides. As stated in the treatment zone monitoring portion of Envirotech's permit, no cell sampled was larger than five acres. Samples were five-point composites. Vadose zone sampling maps with depth measurements are included.

The blue cells (28, 33, 34, 39, 40 AND 41) have passed analysis for total petroleum hydrocarbons, benzene, toluene, ethylbenzene and total xylenes as well as chlorides (see attached laboratory results). The BTEX and Benzene results are reported in parts per billion (ug/Kg), TPH is in parts per million (mg/Kg). Envirotech hereby requests these cells be granted discontinued maintenance status and approval to apply an additional lift of qualifying material to these cells.

Given the parameter for cubic yardages of 15,000 or less to be applied in each five (5) acre cell, we are happy to provide the following cubic yard amounts and depth of the treatment zone in a unit in each cell up to this time:

Cell 28: 4,919 cy (8")	Cell 33: 12,745 cy (18")	Cell 34: 10,883 cy (16")
Cell 39: 5,559 cy (16")	Cell 40: 8439 cy (13")	Cell 41: 7,954 cy (13")

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

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

Respectfully submitted,
Envirotech, Inc.

Keith Johnson
General Manager
kjohnson@envirotech-inc.com

April E. Pohl
Landfarm Administrator
apohl@envirotech-inc.com

AEP/Office/Corporate/LF/DCMaintenance-addedlift/10-18-11

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	28	Date Reported:	09-15-11
Laboratory Number:	59475	Date Sampled:	08-31-11
Chain of Custody No:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Extracted:	09-09-11
Preservative:	Cool	Date Analyzed:	09-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**38.7**	**0.1**
Total Petroleum Hydrocarbons	**38.7**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	33	Date Reported:	09-15-11
Laboratory Number:	59478	Date Sampled:	08-31-11
Chain of Custody No:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Extracted:	09-09-11
Preservative:	Cool	Date Analyzed:	09-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**25.5**	**0.1**
Total Petroleum Hydrocarbons	**25.5**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	34	Date Reported:	09-15-11
Laboratory Number:	59479	Date Sampled:	08-31-11
Chain of Custody No:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Extracted:	09-09-11
Preservative:	Cool	Date Analyzed:	09-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**5.0**	**0.2**
Diesel Range (C10 - C28)	**77.6**	**0.1**
Total Petroleum Hydrocarbons	**82.6**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	39	Date Reported:	09-15-11
Laboratory Number:	59481	Date Sampled:	08-31-11
Chain of Custody No:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Extracted:	09-09-11
Preservative:	Cool	Date Analyzed:	09-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**2.7**	**0.2**
Diesel Range (C10 - C28)	**6.2**	**0.1**
Total Petroleum Hydrocarbons	**8.9**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	40	Date Reported:	09-15-11
Laboratory Number:	59482	Date Sampled:	08-31-11
Chain of Custody No:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Extracted:	09-09-11
Preservative:	Cool	Date Analyzed:	09-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**2.5**	**0.1**
Total Petroleum Hydrocarbons	**2.5**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

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envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	41	Date Reported:	09-15-11
Laboratory Number:	59483	Date Sampled:	08-31-11
Chain of Custody No:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Extracted:	09-09-11
Preservative:	Cool	Date Analyzed:	09-12-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**1.6**	**0.1**
Total Petroleum Hydrocarbons	**1.6**	

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

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Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-12-11 QA/QC	Date Reported:	09-12-11
Laboratory Number:	59474	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-12-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	40798	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	40798	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**1.77**	**0.2**
Diesel Range C10 - C28	**4.98**	**0.1**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	**2.47**	**2.91**	**17.7%**	**0 - 30%**
Diesel Range C10 - C28	**143**	**138**	**3.75%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**2.47**	**250**	**254**	**101%**	**75 - 125%**
Diesel Range C10 - C28	**143**	**250**	**386**	**98.2%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 59474-59483, 59453-59459, 59589-59593, 59603.**

Analyst

Review

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envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	28	Date Reported:	09-19-11
Laboratory Number:	59475	Date Sampled:	08-31-11
Chain of Custody:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Analyzed:	09-12-11
Preservative:	Cool	Date Extracted:	09-09-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**3.2**	**1.0**
Ethylbenzene	**6.5**	**1.0**
p,m-Xylene	**55.2**	**1.2**
o-Xylene	**25.4**	**0.9**
Total BTEX	**90.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**87.9 %**
	1,4-difluorobenzene	**96.1 %**
	Bromochlorobenzene	**110 %**

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

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	33	Date Reported:	09-19-11
Laboratory Number:	59478	Date Sampled:	08-31-11
Chain of Custody:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Analyzed:	09-12-11
Preservative:	Cool	Date Extracted:	09-09-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**4.1**	**1.0**
Ethylbenzene	**6.1**	**1.0**
p,m-Xylene	**43.7**	**1.2**
o-Xylene	**19.7**	**0.9**
Total BTEX	**73.4**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**91.3 %**
	1,4-difluorobenzene	**98.7 %**
	Bromochlorobenzene	**115 %**

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

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	34	Date Reported:	09-19-11
Laboratory Number:	59479	Date Sampled:	08-31-11
Chain of Custody:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Analyzed:	09-12-11
Preservative:	Cool	Date Extracted:	09-09-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**1.3**	**0.9**
Toluene	**7.3**	**1.0**
Ethylbenzene	**8.2**	**1.0**
p,m-Xylene	**61.6**	**1.2**
o-Xylene	**25.7**	**0.9**
Total BTEX	**104**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**103 %**
	1,4-difluorobenzene	**113 %**
	Bromochlorobenzene	**115 %**

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

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

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envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	39	Date Reported:	09-19-11
Laboratory Number:	59481	Date Sampled:	08-31-11
Chain of Custody:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Analyzed:	09-12-11
Preservative:	Cool	Date Extracted:	09-09-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**4.6**	**1.0**
Ethylbenzene	**9.9**	**1.0**
p,m-Xylene	**70.6**	**1.2**
o-Xylene	**30.7**	**0.9**
Total BTEX	**115**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**105 %**
	1,4-difluorobenzene	**116 %**
	Bromochlorobenzene	**106 %**

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

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	40	Date Reported:	09-19-11
Laboratory Number:	59482	Date Sampled:	08-31-11
Chain of Custody:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Analyzed:	09-12-11
Preservative:	Cool	Date Extracted:	09-09-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**1.5**	**0.9**
Toluene	**5.9**	**1.0**
Ethylbenzene	**3.8**	**1.0**
p,m-Xylene	**34.0**	**1.2**
o-Xylene	**16.0**	**0.9**
Total BTEX	**61.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95.4 %**
	1,4-difluorobenzene	**104 %**
	Bromochlorobenzene	**99.1 %**

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

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	41	Date Reported:	09-19-11
Laboratory Number:	59483	Date Sampled:	08-31-11
Chain of Custody:	12476	Date Received:	08-31-11
Sample Matrix:	Soil	Date Analyzed:	09-12-11
Preservative:	Cool	Date Extracted:	09-09-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**6.9**	**1.0**
Ethylbenzene	**8.5**	**1.0**
p,m-Xylene	**66.6**	**1.2**
o-Xylene	**26.6**	**0.9**
Total BTEX	**109**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**90.4 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**92.1 %**

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

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0912BBLK QA/QC	Date Reported:	09-19-11
Laboratory Number:	59474	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-12-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.0441E+006	2.0482E+006	0.2%	ND	0.1
Toluene	7.8655E+005	7.8813E+005	0.2%	ND	0.1
Ethylbenzene	5.6341E+005	5.6454E+005	0.2%	ND	0.1
p,m-Xylene	1.2480E+006	1.2505E+006	0.2%	ND	0.1
o-Xylene	4.4115E+005	4.4204E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	7.1	7.3	2.8%	0 - 30%	1.0
Ethylbenzene	19.8	20.4	3.0%	0 - 30%	1.0
p,m-Xylene	132	132	0.6%	0 - 30%	1.2
o-Xylene	54.7	53.1	2.9%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	505	101%	39 - 150
Toluene	7.1	500	597	118%	46 - 148
Ethylbenzene	19.8	500	579	111%	32 - 160
p,m-Xylene	132	1000	1,300	115%	46 - 148
o-Xylene	54.7	500	510	91.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

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

Comments: **QA/QC for Samples 59474-59483.**

Analyst

Review

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Analytical Laboratory

Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	28	Date Reported:	09/16/11
Lab ID#:	59475	Date Sampled:	08/31/11
Sample Matrix:	Soil	Date Received:	08/31/11
Preservative:	Cool	Date Analyzed:	09/13/11
Condition:	Intact	Chain of Custody:	12476

Parameter	Concentration (mg/Kg)
Total Chloride	**120**

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	33	Date Reported:	09/16/11
Lab ID#:	59478	Date Sampled:	08/31/11
Sample Matrix:	Soil	Date Received:	08/31/11
Preservative:	Cool	Date Analyzed:	09/13/11
Condition:	Intact	Chain of Custody:	12476

Parameter	Concentration (mg/Kg)
Total Chloride	**420**

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	34	Date Reported:	09/16/11
Lab ID#:	59479	Date Sampled:	08/31/11
Sample Matrix:	Soil	Date Received:	08/31/11
Preservative:	Cool	Date Analyzed:	09/13/11
Condition:	Intact	Chain of Custody:	12476

Parameter	Concentration (mg/Kg)
Total Chloride	**70**

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	39	Date Reported:	09/16/11
Lab ID#:	59481	Date Sampled:	08/31/11
Sample Matrix:	Soil	Date Received:	08/31/11
Preservative:	Cool	Date Analyzed:	09/13/11
Condition:	Intact	Chain of Custody:	12476

Parameter	Concentration (mg/Kg)
Total Chloride	**310**

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

envirotech
Analytical Laboratory

Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	40	Date Reported:	09/16/11
Lab ID#:	59482	Date Sampled:	08/31/11
Sample Matrix:	Soil	Date Received:	08/31/11
Preservative:	Cool	Date Analyzed:	09/13/11
Condition:	Intact	Chain of Custody:	12476

Parameter	Concentration (mg/Kg)
Total Chloride	**10**

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

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Chloride

Client:	Envirotech	Project #:	1-02-60002
Sample ID:	41	Date Reported:	09/16/11
Lab ID#:	59483	Date Sampled:	08/31/11
Sample Matrix:	Soil	Date Received:	08/31/11
Preservative:	Cool	Date Analyzed:	09/13/11
Condition:	Intact	Chain of Custody:	12476

Parameter	Concentration (mg/Kg)
Total Chloride	**120**

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

Comments: **Landfarm 2 Unit 5 (5 Acre Cells) Closure.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

12476

Client:	Project Name / Location:	ANALYSIS / PARAMETERS
Envirotech	Land Farm Zone 1 5 (5 acre cells) [redacted] Closure (aep)	
Client Address:	Sampler Name: F. Aragon	
Client Phone No.:	Client No.: 1-02-60002	

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl2	Preservative HCl	Preservative (ice)	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
26	8-31-11	10:00	59474	Soil Solid / Sludge Aqueous	1/4oz			X	X	X								X				✓	✓
28		10:05	59475	Soil Solid / Sludge Aqueous																		✓	✓
29		10:32	59476	Soil Solid / Sludge Aqueous																		✓	✓
32		10:15	59477	Soil Solid / Sludge Aqueous																		✓	✓
33		10:20	59478	Soil Solid / Sludge Aqueous																		✓	✓
34		10:30	59479	Soil Solid / Sludge Aqueous																		✓	✓
35		10:40	59480	Soil Solid / Sludge Aqueous																		✓	✓
39		10:45	59481	Soil Solid / Sludge Aqueous																		✓	✓
40		11:00	59482	Soil Solid / Sludge Aqueous																		✓	✓
41		11:10	59483	Soil Solid / Sludge Aqueous																		✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
F. Aragon	8-31-11	15:10	[signature]	8/31/11	1510
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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5796 US HWY. 64, FARMINGTON, NM 87401
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PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1-02-60002
PAGE No: 2 of 11

FACILITY LOCATION: Landfarm Unit 5
SOURCE LOCATION: 28
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 9-1-11
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: FA

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

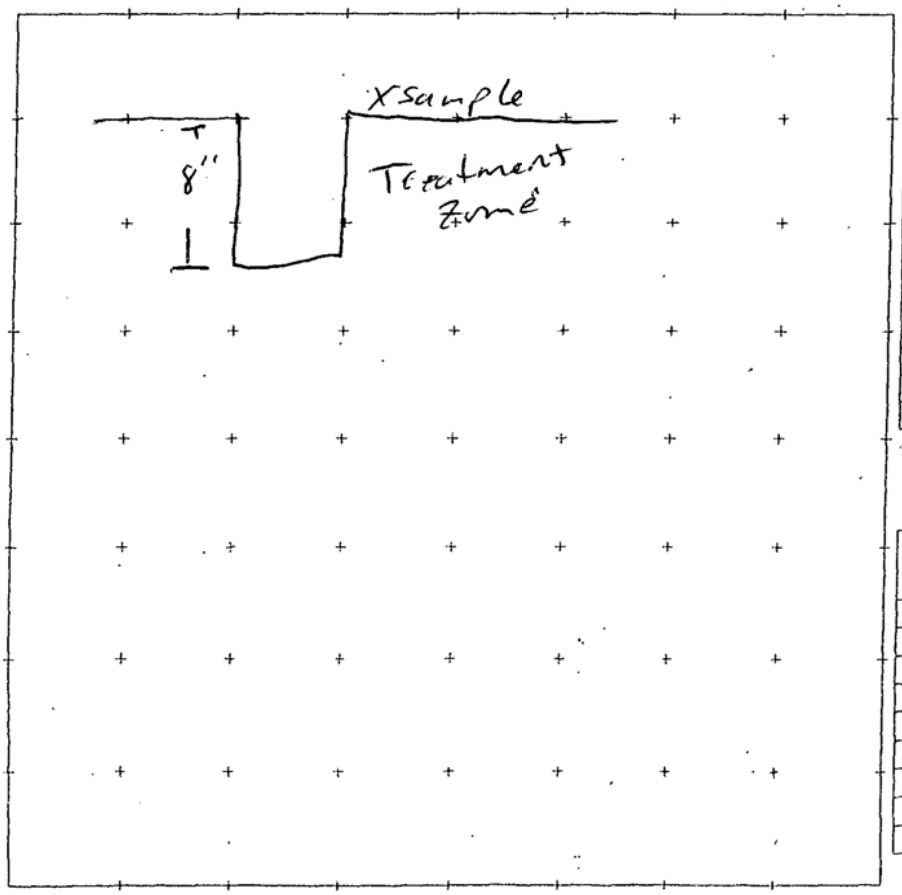
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOCD:

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

Treatment Zone 8"

FACILITY DIAGRAM

GRID SCALE: 1cm = 6"



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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

PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1-02-6000 2
PAGE No: ___ of ___

FACILITY LOCATION: Landfarm Unit 5
SOURCE LOCATION: 33
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 9-1-11
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. A

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

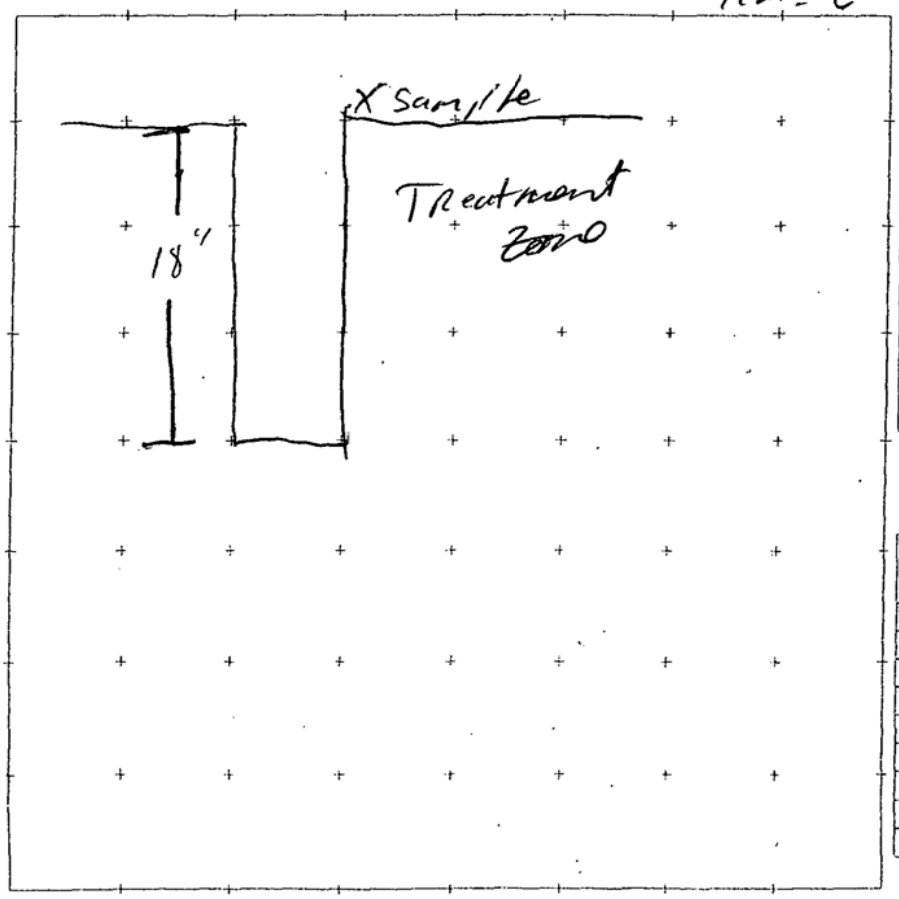
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOCD:

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

Treatment Zone 18"

FACILITY DIAGRAM

GRID SCALE: 1cm = 6"



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID	ANALYSIS REQUESTED	RESULTS PPM

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1-02-6002
PAGE No: 6 of 12

FACILITY LOCATION: Landfarm Zone 5
SOURCE LOCATION: 37
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 9-1-11
DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: F. A

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

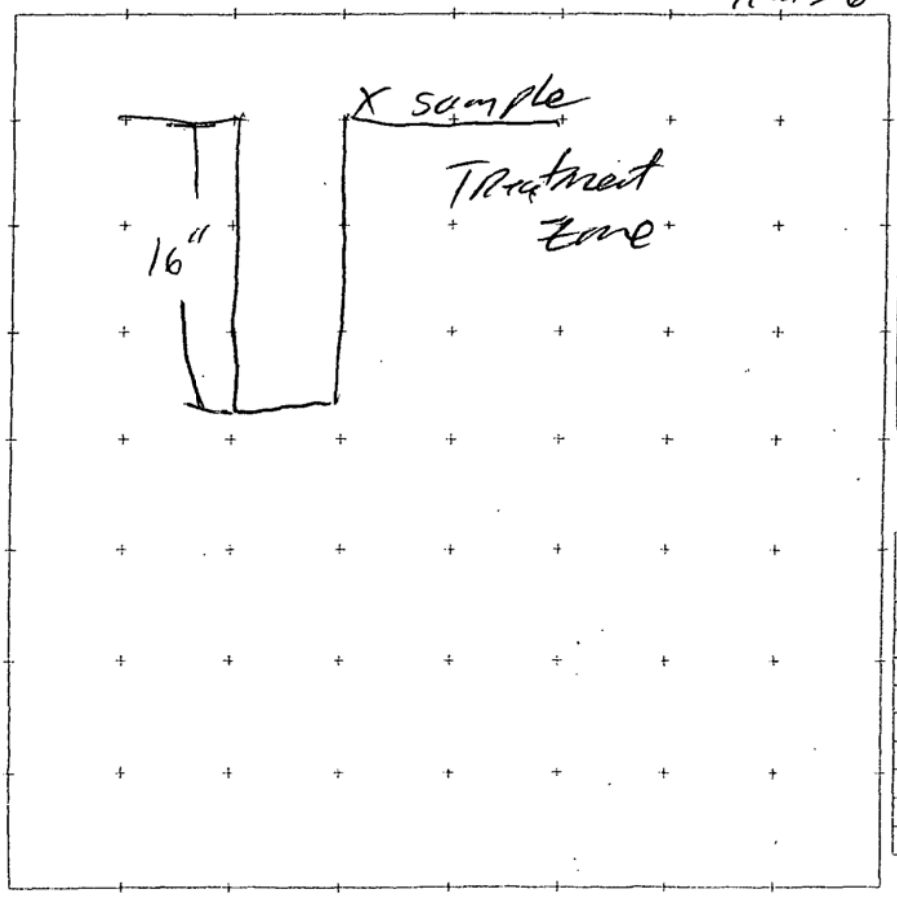
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOCD:

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

Treatment Zone 16"

FACILITY DIAGRAM

GRID SCALE: 1cm = 6"



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 1-02-6002
PAGE No: 7 of 12

FACILITY LOCATION: Landfarm Cell 5
SOURCE LOCATION: 39
SOURCE LOCATION:
SOURCE LOCATION:
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 9-1-91
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: F. A

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

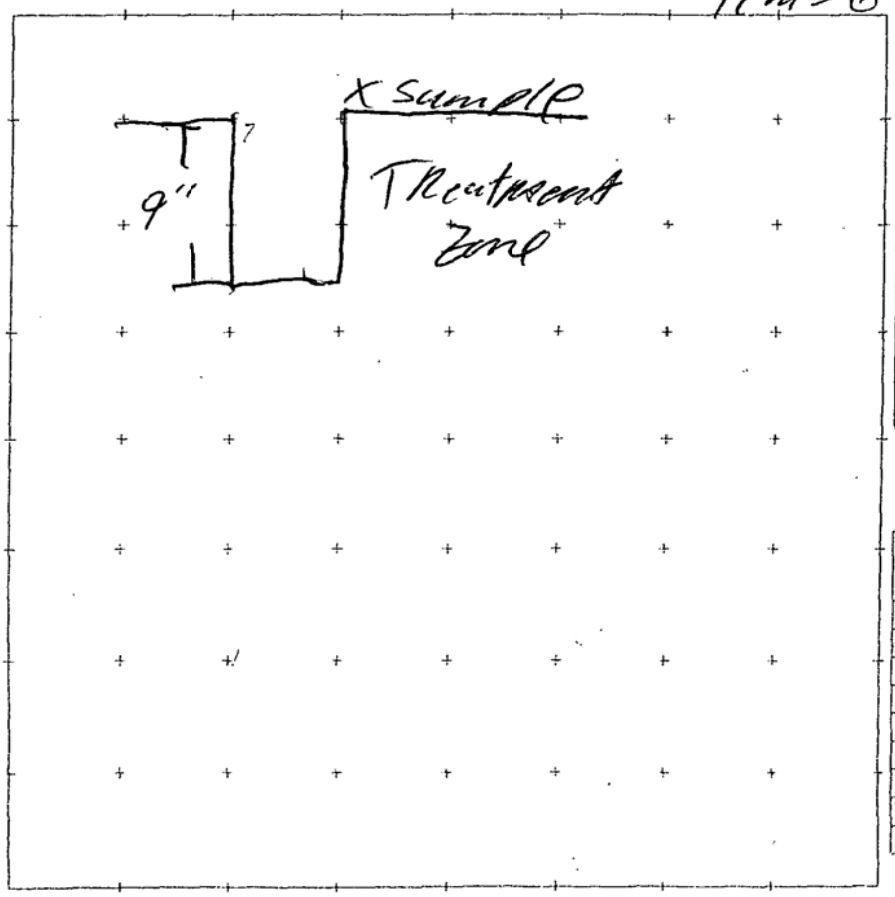
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOCD:

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

Treatment Zone 9"

FACILITY DIAGRAM

GRID SCALE: 1cm = 6"



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
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PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: L-02-60002
PAGE No: 8 of 12

FACILITY LOCATION: Lard farm 2 unit 5
SOURCE LOCATION: 4/0
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 9-1-11
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: F. A

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

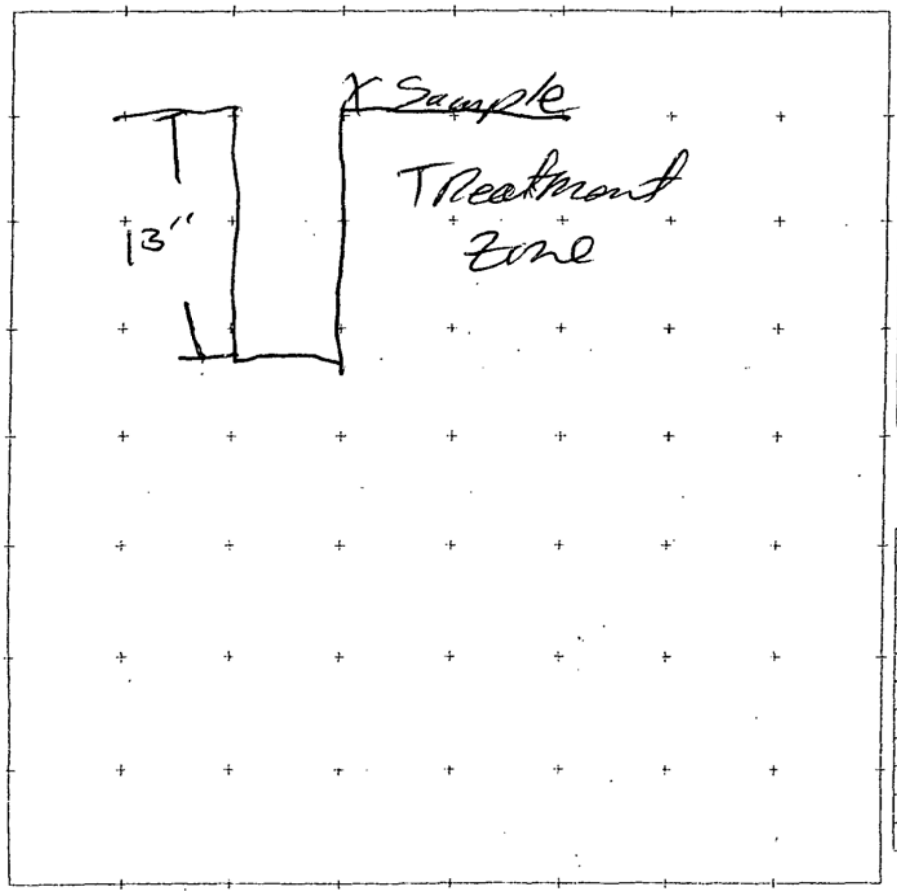
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOCD:

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

Treatment zone 13"

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.

ENVIROTECH Inc.

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PIT No: _____
C.O.C #: _____

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 102-60002
PAGE No: 9 of 12

FACILITY LOCATION: Landfarm 2 unit 5
SOURCE LOCATION: 41
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: _____ PIT TYPE: _____

DATE STARTED: 9-1-11
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: F. A

SOIL REMEDIATION: QUANTITY: _____ # OF COMP. SAMPLES: _____
DIMENSIONS: _____
VISIBLE OBSERVATIONS: _____
SAMPLING PLAN: _____

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

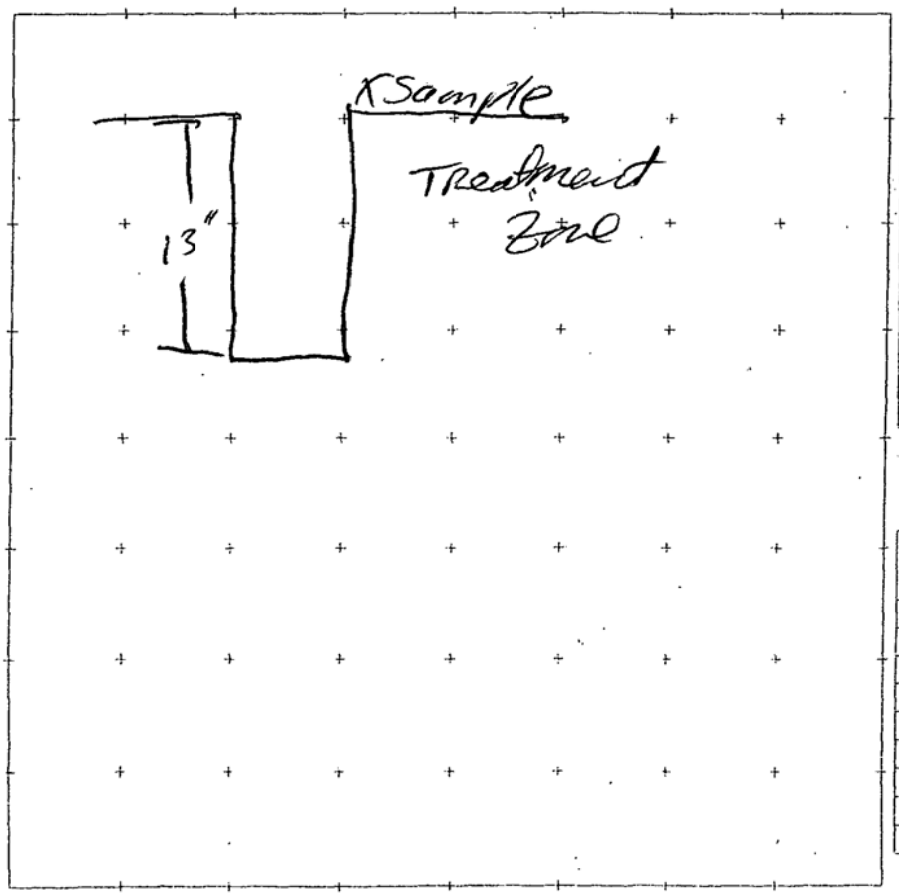
DEPTH TO GROUNDWATER:
NEAREST WATER SOURCE/TYPE:
NEAREST SURFACE WATER:
MAX TPH PER NMOCD:

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

Treatment zone 13"

FACILITY DIAGRAM

GRID SCALE:



OVM RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED	RESULTS PPM:

NORTH

WELLHEAD

SURFACE FLOW DIR.

ESTIMATED GROUNDWATER FLOW DIR.