

District I  
P.O. Box 1980, Hobbs, NM

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

OK  
**RECEIVED**  
NOV - 1 1999

**OIL CON. DIV.**  
**DIST. 3**

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b> PNM Gas Services ( Burlington )		<b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401			
<b>Facility or Well Name:</b> Grenier #2A			
<b>Location:</b>	Unit <u>N</u>	Sec <u>18</u>	T <u>31 N</u> R <u>11 W</u> County <u>San Juan</u>
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other _____
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other _____
<b>Pit Location:</b> Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '			
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other _____		
Footage from reference: <u>95</u> ' _____			
Direction from reference: <u>70</u> Degrees <input checked="" type="checkbox"/> East <input checked="" type="checkbox"/> North <input type="checkbox"/> West <input type="checkbox"/> South _____ of _____			
<b>Depth to Ground Water:</b>			
(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	<u>0</u>
<b>Wellhead Protection Area:</b>			
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		Yes (20 points) No (0 points)	<u>0</u>
<b>Distance to Surface Water:</b>			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)	<u>0</u>
<b>RANKING SCORE (TOTAL POINTS) :</b>			<u>0</u>

Grenier #2A

Date Remediation Started: 05/24/1999

Date Completed: 05/24/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 284

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 154

Other 130 cu yds overburden

Remediation Location:

Onsite

☒

Offsite

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 20' X 24' X 16' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Ground Water Encountered:

No



Yes



Depth

Final Pit Closure Sampling:

Sample Location

5 pt. composite - bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth

16'

Sample date

05/24/1999

Sample time

2:30:00 PM

Sample Results

Benzene (ppm)

0.042

Total BTEX (ppm)

1.401

Field headspace (ppm)

TPH (ppm)

< 25.00

Method

8015B

Vertical Extent (ft)

Risk Analysis form attached Yes



No



Ground Water Sample:

Yes



No



(If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 28, 1999

SIGNATURE

*Maureen Gannon*

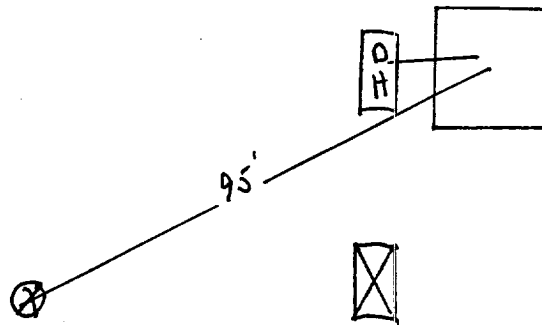
PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

Grenier #2A  
Burlington  
Sec. 18, 31N, 11W, N

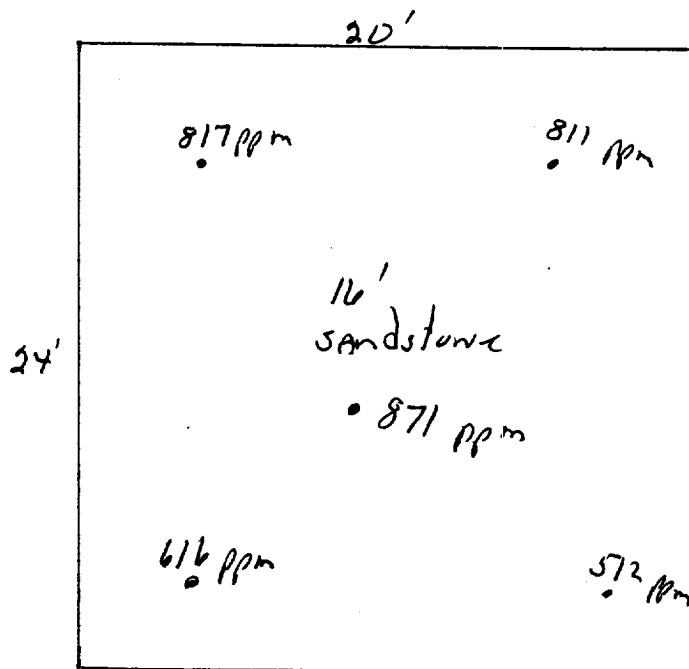
5/24/99



site diagram:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 08-Jun-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9905082

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**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 08-Jun-99

**Client:** PNM - Public Service Company of NM **Client Sample Info:** Grenier #2A  
**Work Order:** 9905082 **Client Sample ID:** 9905241430; Bottom @ 16ft. - *Spt. Composite*  
**Lab ID:** 9905082-05A **Matrix:** SOIL **Collection Date:** 5/24/99 2:30:00 PM  
**Project:** PNM Pit Remediation **COC Record:** 7598

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/1/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				<b>Analyst: DM</b>
Benzene	42	25		µg/Kg	25	5/27/99
Toluene	91	50		µg/Kg	25	5/27/99
Ethylbenzene	120	25		µg/Kg	25	5/27/99
m,p-Xylene	1100	50		µg/Kg	25	5/27/99
o-Xylene	48	25		µg/Kg	25	5/27/99

1401  
1.401 ppm

**Qualifiers:** PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits  
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits  
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range  
B - Analyte detected in the associated Method Blank Surr: - Surrogate

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**ANALYTICAL REPORT**

Date: 08-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier #2A
<b>Work Order:</b>	9905082	<b>Client Sample ID:</b>	9905241435; Walls @ 11ft.
<b>Lab ID:</b>	9905082-06A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	5/24/99 2:35:00 PM
		<b>COC Record:</b>	7598

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>						
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: DC 6/1/99
<b>AROMATIC VOLATILES BY GC/PID</b>						
		SW8021B				Analyst: DM
Benzene	ND	1		µg/Kg	1	5/27/99
Toluene	ND	2		µg/Kg	1	5/27/99
Ethylbenzene	ND	1		µg/Kg	1	5/27/99
m,p-Xylene	ND	2		µg/Kg	1	5/27/99
o-Xylene	ND	1		µg/Kg	1	5/27/99

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

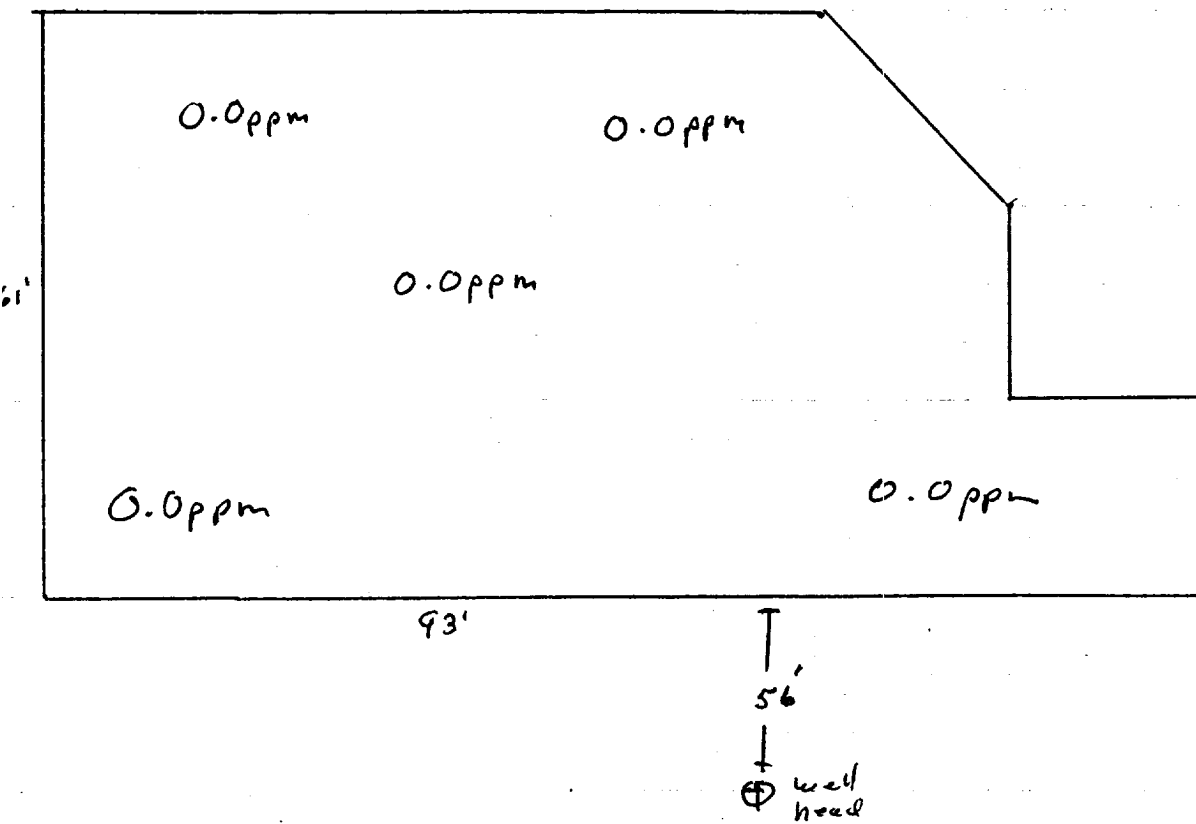
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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Grenier #2A  
Sec-18 T-31N R-11W 46-N  
Burlington

# Landfarm Drawing

App 154 cu. yds



2" to 12" Depth  
Headspace 0.0 ppm  
Sample # 9907120725

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 23-Jul-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation Landfarms  
**Lab Order:** 9907027

**CASE NARRATIVE**

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier 2A LF
<b>Work Order:</b>	9907027	<b>Client Sample ID:</b>	9907120725; 5pt. Comp
<b>Lab ID:</b>	9907027-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation Landfarms	<b>Collection Date:</b>	7/12/99 7:25:00 AM
		<b>COC Record:</b>	7484

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/22/99

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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