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

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

2040 South Pacheco Street Santa Fe, New Mexico 87505

OIL CONSERVATION DIVISION

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

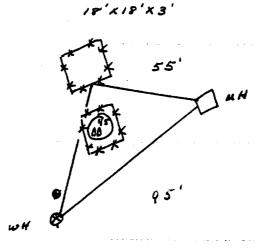
PIT REMEDIATION AND CLOSURE REPORT

				(V)
Operator:	PNM Gas Services (Burlington) Telephone:	324-3764	and the second s
Address:	603 W. Elm Street Farmington, NM 87	7401	مجنيها	PRE STATEMENT - PRESENTATION OF
Facility or We	ell Name: Grenier A #4E			
Location:	Unit F Sec	26 T 30 N	R 10 W County	San Juan
Pit Type:	Separator Dehydra	tor 🔽 Othe	er	
Land Type:	BLM State	Fee Othe	er	
Pit Location:	Pit dimensions: length	12 ' width	12 ' depth	2 '
(Attach diagram	n) Reference: wellhead 5	other _		
	Footage from reference:	75'		
	Direction from reference: 75	Degrees <u>F</u>	East North	₹.
			of West South	
Depth to Group (Vertical distance from conseasonal high water elevations)	ntaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points) 10
Wellhead Protes (Less than 200 feet from a domestic water source, or,	private less than 1,000	Yes No		(20 points) (0 points) 0
Distance to Sur	face Water:	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points)
ponds, rivers, streams, creei canals and ditches		RANKING SCORE	(TOTAL POINTS) :	(0 points) 0

Grenier A #4E		
Date Remediation Started:	07/07/1999	Date Completed: 07/07/1999
Remediation Method:	Excavation x	Approx. Cubic Yard75
(Check all appropriate sections)	Landfarmed x	Amount Landfarmed (cubic yds) 60
sections)	Other 15 cu yds overburden	
Remediation Location:	Onsite	Offsite
(i.e., landfarmed onsite, name and location of offsite facility)		
Backfill Material Location:		
General Description of Rem	nedial Action:	
Excavated contaminated soil to 12". Soil was agrated by d	to a pit size of 13' X 15.5' X 10' and land lisking/plowing until soil met regulatory lev	farmed soil onsite within a bermed area at a depth of 6"
	at 10'. See attached risk analysis form.	
Ground Water Encountered	i: 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 depth10'	
sample locations and depuis.)	Sample date07/07/1999	Sample time 1:15:00 PM
	Sample Results	1:15:00 PM
	Benzene (ppm) < 0	.5
	Total BTEX (ppm)	129.8 ***
·	Field headspace (ppm)	
	TPH (ppm)1100.00***	Method 8015B
Vertical Extent (ft)	Risk Ar	nalysis form attached Yes No
Ground Water Sample:	Yes No	(If yes, see attached Groundwater Site Summary Report)
I HEREBY CERTIFY THAT KNOWLEDGE AND MY BI	THE INFORMATION ABOVE IS TRUELIEF	E AND COMPLETE TO THE BEST OF MY
DATE October 28, 1999 SIGNATURE	$\sim \lambda$	PRINTED NAME Maureen Gannon AND TITLE Project Manager
	(Cry Kathy Linch	







Excavation Sampling

PID Readings

5'- 1440 ppm

10'- 2994 ppm

west wall sample at 10'- oppn

5 point bottom composite sample at 10'-2124 ppm

13'(N+5)x15.5'(E+W) x10' @

worth wall cample at 10:- 0 ppm

Eastwall sample at 10'- oppn

Southwall sample at 10'- oppn

Field headspace: O (walk)

ant to spale

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9907014

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.





LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9907014

9907014-05A

Matrix: SOIL

Lab ID: **Project:**

PNM Pit Remediation

Client Sample Info: Grenier A4E

Client Sample ID: 9907071315; 5pt Bottom Comp

Collection Date: 7/7/99 1:15:00 PM

COC Record: 7645

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	S	W8015B			Analyst DC
T/R Hydrocarbons: C10-C28	1100	25	mg/Kg	a 1	Analyst: DC 7/20/99
ROMATIC VOLATILES BY GC/PID	S	W8021B		•	Analyst: DC
Benzene	ND	500	μg/Kg	500	7/12/99
Toluene	4300	1000	μ g /Kg		7/12/99
Ethylbenzene	4500	500	μg/Kg	- · · -	7/12/99
m,p-Xylene	98000	1000	µg/Kg		7/12/99
o-Xylene	23000	500	un/Ka		7/12/99
	12982		F3.13	330	1712199
	1000	<u>ی</u>			
	174.80	ppr)		

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



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9907014

9907014-06A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Grenier A4E

Client Sample ID: 9907071320; 4 Wall Comp

Collection Date: 7/7/99 1:20:00 PM

COC Record: 7645

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 66	V8015B 25	mg/Kg	1	Analyst: DC 7/20/99

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

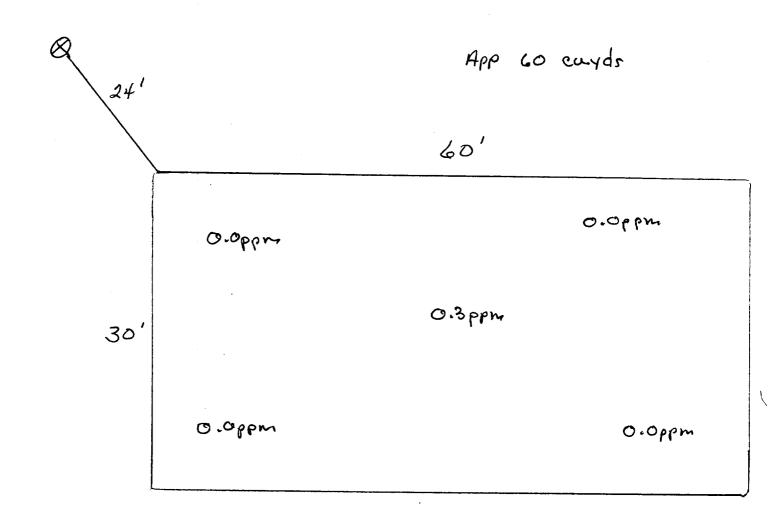
E - Value above quantitation range

Surr: - Surrogate

1 of 1

Sec. 26 T30N RIOW UnitF Burlington

LANdfarn Drawing



2" to 12" Depth Headspace 9.8ppm Sample# 9907/4/425



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9907036

CASE NARRATIVE

Date: 30-Jul-99

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9907036

Lab ID:

9907036-05A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: Grenier A-4E LF

Client Sample ID: 9907141425; 5pt Comp

Collection Date: 7/14/99 2:25:00 PM

COC Record: 7491

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV ND	V8015B 25	mg/Kg	1	Analyst: DC 7/29/99

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



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Grenier A #4E Sec 26, T30N, R10W, Unit F Dehydrator Greater than 1,000 feet 50 feet to 99 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Grenier A #4E well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 52 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Turley, NM series 7.5 minute topographic map.)
- 2. PNM excavated 75 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
- 3. Sandstone was encountered at 10 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes that their former pit on the Grenier A #4E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.