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

District II

P.O. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Artec, NM 87410 State of New Mexico
Energy, Minerals and Natural Resources Department

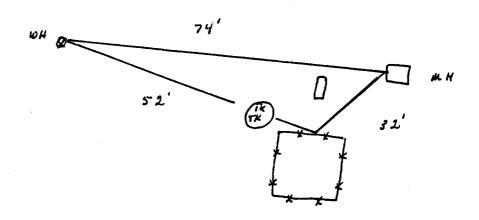
OIL CONSERVATION DIVISION

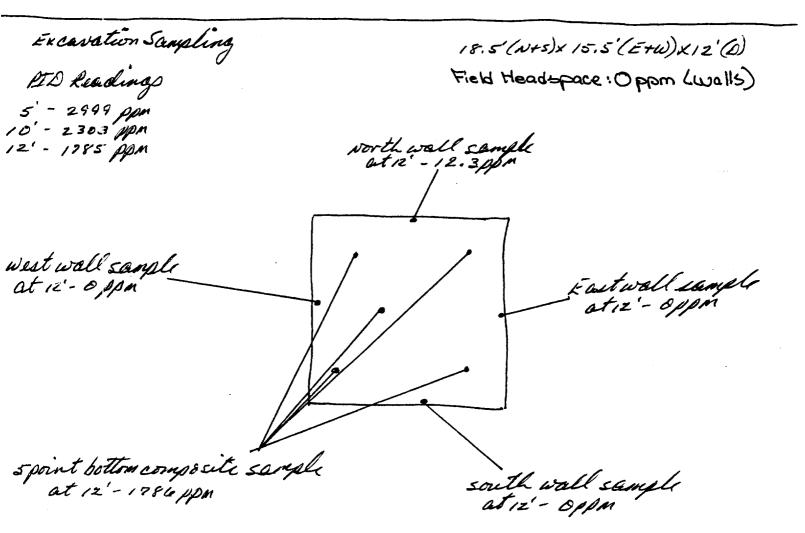
2040 South Pacheco Street Santa Fe, New Mexico 87505 SUBMIT I COPY TO VAPPROPRIATE OF THE COPY TO VAPPROPRIATE

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Burlington) Te	lephone:	324-3764			
Address:	603 W. Elm Street Farming	gton, NM 8740	1		**			
Facility or We	II Name: Grenier A #5							
Location:	Unit F	Sec35	_ T _	30 N F	10 W	County	San Juan	
Pit Type:	Separator 🔽	Dehydrator		Other				
Land Type:	BLM State		Fee	Other	· 			
Pit Location:	Pit dimensions:	length 1	2 '	width _	12 '	depth	2 '	
(Attach diagran	n) Reference:	wellhead 🔽	_	other _				
	Footage from refere	ence: 51'	I					
	Direction from refe	rence: 45	Degrees	<u>~</u>	East	North	<u> </u>	
				· 	of West	South		
Depth to Grou (Vertical distance from or seasonal high water eleva	ntaminants to		Less than 50 feet to Greater than 1	99 feet			(20 points) (10 points) (0 points)	0
Wellhead Prot (Less than 200 feet from domestic water source, or feet from all other water s	t private ; less than 1,000			Yes No			(20 points) (0 points)	0
Distance to Su (Horizontal distance to puponds, rivers, streams, creanals and ditches	rennial lakes,		Less than 200 feet to 1 Greater than 1	,000 feet ,000 feet	(TOTAL)		(20 points) (10 points) (0 points)	0
			RANKING	SCORE	(TOTAL	POINTS)	•	0

Grenier A #5		
Date Remediation Started:	07/07/1999	Date Completed: 07/07/1999
Remediation Method:	Excavation x	Approx. Cubic Yard 127
(Check all appropriate sections)	Landfarmed X	Amount Landfarmed (cubic yds)87
sections	Other 40 cu yds overburden	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite
Backfill Material Location:		
General Description of Rem	nedial Action:	
Excavated contaminated soil 6" to 12". Soil was aerated by	l to a pit size of 18.5' X 15.5' X 12' a y disking/plowing until soil met regul	nd landfarmed soil onsite within a bermed area at a depth of latory levels.
*** Sandstone was encounte	red at 12'. See attached risk analysi	is form.
Ground Water Encountered	d: No 🔽	Yes Depth
Final Pit Closure Sampling:	Sample Location 5 pt. compo	osite - bottom.
(if multip e samples, attach sample result and diagram of sample locations and depths.)	Sample depth 12'	
• ,	Sample date 07/07/799	Sample time 9:05:00 AM
	Sample Results	•
	Benzene (ppm) <	1
	Total BTEX (ppm) —	161.7 ***
	Field headspace (ppm) _	
Wat ID a co	TPH (ppm) 740.00	Method 8015B
Vertical Extent (ft)	R	isk Analysis form attached Yes No
Ground Water Sample:	Yes No	(If yes, see attached Groundwater Site Summary Report)
I HEREBY CERTIFY THAT KNOWLEDGE AND MY B	THE INFORMATION ABOVE IS ELIEF	S TRUE AND COMPLETE TO THE BEST OF MY
DATE October 28, 199 SIGNATURE YMaw	\sim	PRINTED NAME Maureen Gannon AND TITLE Project Manager
	/	





tt -not.

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9907014

CASE NARRATIVE

Date: 22-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.

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OFF: (505) 325-5667

LAB: (505) 325-1556

Date: 22-Jul-99

ANALYTICAL REPORT

Client: PNM - Public Service Company of NM

Work Order: 9907014

Lab ID: 9907014

9907014-01A Matrix: SOIL

Project: PNM Pit Remediation

Client Sample Info: Grenier A5

Client Sample ID: 9907070905; 5pt Bottom Comp

Collection Date: 7/7/99 9:05:00 AM

COC Record: 7645

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B		·		Analyst: DC
T/R Hydrocarbons: C10-C28	740	25	mg/Kg	1	7/20/99
AROMATIC VOLATILES BY GC/PID	SW8021B				Analyst: DC
Benzere	ND	1000	μg/Kg	1000	7/12/99
Toluene	8700	2000	μg/Kg	1000	7/12/99
Ethylbenzene	15000	1000	μg/Kg	1000	7/12/99
m,p-Xy ene	110000	2000	μg/Kg	1000	7/12/99
o-Xyler e	28000	1000	μg/Kg	1000	7/12/99

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

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 22-Jul-99

ANALYTICAL REPORT

PNM - Public Service Company of NM

9907014

9907014-02A

Matrix: SOIL

Lab ID: Project:

Client:

Work Order:

PNM Pit Remediation

Client Sample Info: Grenier A5

Client Sample ID: 9907070910; 4 Wall Comp

Collection Date: 7/7/99 9:10:00 AM

COC Record: 7645

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SW ND	/8015B 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. 35 T30N RIOW UnitF Burlington

LAndfarm Drawing

App 87 cu yds

	<u> </u>	57'		
	O.Oppm		О.Оррт	
12'		O.Oppm		54
Ø 12	О.Оррш		19.2ppm	

2" to 12" Depth Sample # 9907191841 Headspace 6.6ppm OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9907047

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: 04-Aug-99

Client:

PNM - Public Service Company of NM

Work Order:

9907047

9907047-05A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation Landfarms

Client Sample Info: Grenier A-5 LF

Client Sample ID: 9907191841; 5pt Composite

Collection Date: 7/19/99 6:41:00 PM

COC Record: 7493

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 7/30/99

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 #5
Sec 35, T30N, R10W, Unit F
Separator
Greater than 1,000 feet
Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Grenier A #5 well site using a limited risk analysis based on the following conditions:

- Groundwater is estimated to be at a depth of 225 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 127 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 12 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 #5 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.