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

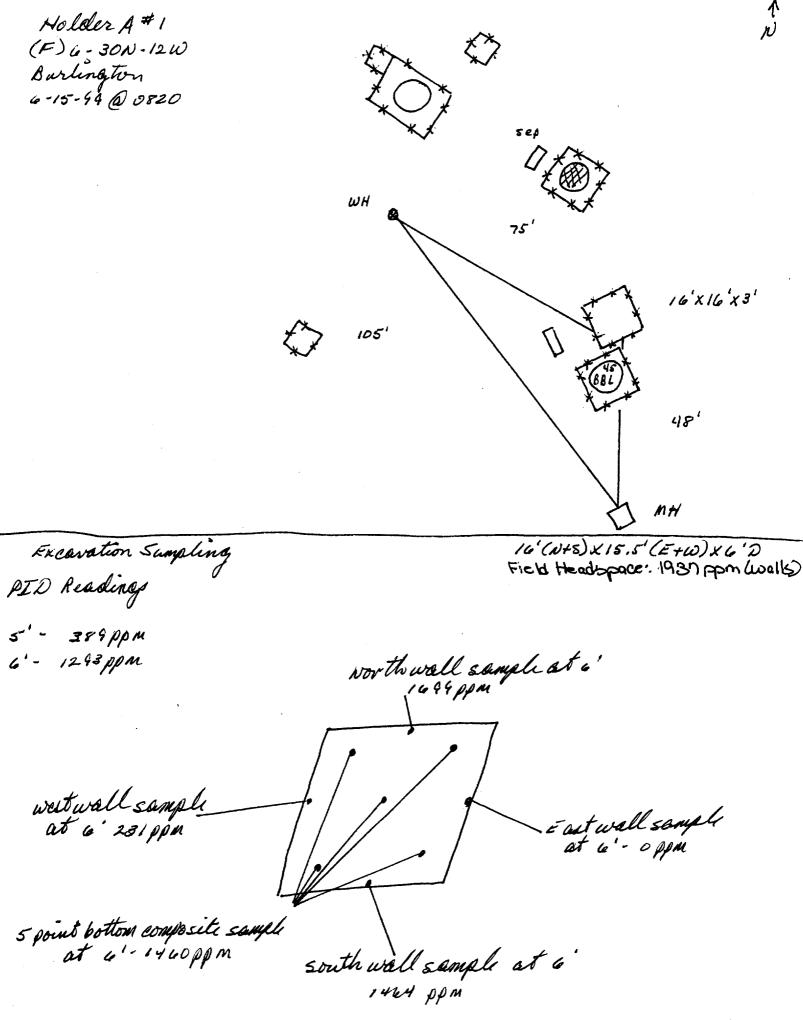
2040 South Pacheco Street Santa Fe, New Mexico 87505

# SUBMIT I COPY TO PERSONATE PROPRIATE PROPRIATE

### PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services ( Burlington	) Telephone:	324-3764				
Address:			327-370-	******	]		
Facility or W	ell Name: Holder A #1	7					
Location:	Unit F Sec	6 T 30N	R 12 W County	San Juan	_		
Pit Type:	Separator Dehydrato	or <u>V</u> Othe	r				
Land Type:	BLM State	Fee 💆 Othe	r		_		
Pit Location:	Pit dimensions: length	16 ' width	16 depth	3 '			
(Attach diagran	n) Reference: wellhead 🔽	other _					
	Footage from reference: 7	5'			_		
	Direction from reference: 67	Degrees <u> </u>	East North				
			of West South	<u> </u>			
Depth to Grou	and Water:	Less than 50 feet	·	(20 points)			
(Vertical distance from c seasonal high water eleva water		50 feet to 99 feet Greater than 100 feet		(10 points) ( 0 points)	10		
Wellhead Prot	ection Area:						
(Less than 200 feet from domestic water source, or feet from all other water:	, less than 1,000	Yes No		(20 points) ( 0 points)	0		
Distance to Su (Horizontal distance to pe	erennial lakes,	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) ( 0 points)	0		
ponds, rivers, streams, cre canals and ditches	eeks, irrigation	RANKING SCORE	(TOTAL POINTS) :	_	10		

Holder A #1		
Date Remediation Started:	06/15/1999	<b>Date Completed:</b> 06/15/1999
Remediation Method:	Excavation X	Approx. Cubic Yard 55
(Check all appropriate	Landfarmed x	Amount Landfarmed (cubic yds) 55
sections)	Other	
Remediation Location:	Onsite X	Offsite
(i.e., landfarmed onsite, name and location of offsite facility)		
Backfill Material Location:		
General Description of Ren	nedial Action:	
Excavated contaminated soi to 12". Soil was aerated by d	l to a pit size of 16' X 15.5' X 6' and landisking/plowing until soil met regulatory	dfarmed soil onsite within a bermed area at a depth of 6"
	at 6'. See attached risk analysis form.	
Ground Water Encountered	d: No 🔽 Y	es Depth
Final Pit Closure Sampling:	Sample Location 5 pt. composit	te - bottom.
(if multiple samples, attach sample result and diagram of	Sample depth 6'	
sample locations and depths.)	Sample date06/15/1999	Sample time10:25:00 AM
	Sample Results	
	Benzene (ppm)	3.9
	Total BTEX (ppm)	59.2 ***
	Field headspace (ppm)	
	TPH (ppm) 200.00	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 KNOWLEDGE AND MY B	THE INFORMATION ABOVE IS TELIEF	RUE AND COMPLETE TO THE BEST OF MY
DATE October 28, 199	9	PRINTED NAME Maureen Gannon
SIGNATURE Ma	urun Barron	AND TITLE Project Manager



not to scale



LAB: (505) 325-1556

## On Site Technologies, LTD.

**CLIENT:** 

PNM - Public Service Company of NM

Project:

**PNM Pit Remediation** 

Lab Order:

9906054

**CASE NARRATIVE** 

Date: 30-Jun-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

Date: 30-Jun-99

### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9906054

Lab ID: 9

9906054-03A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Holder A#1

Client Sample ID: 9906151025; 5pt. Bottom Comp

Collection Date: 6/15/99 10:25:00 AM

COC Record: 7639

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	200	25	mg/Kg	1	6/28/99
AROMATIC VOLATILES BY GC/PID	SV	W8021B			Analyst: DC
Benzene	3900	500	μg/Kg	500	6/23/99
Toluene	22000	1000	μg/Kg	500	6/23/99
Ethylbenzene	3000	500	μg/Kg	500	6/23/99
m,p-Xylene	25000	1000	μg/Kg	500	6/23/99
o-Xylene	5300	500	μg/Kg	500	6/23/99

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



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 30-Jun-99

Client:

PNM - Public Service Company of NM

Work Order:

9906054

Lab ID:

9906054-04A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Holder A#1

Client Sample ID: 9906151030; 4pt. Wall Comp

Collection Date: 6/15/99 10:30:00 AM

COC Record: 7639

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	36	25	mg/Kg	1	6/28/99
AROMATIC VOLATILES BY GC/PID	SW8021B			Analyst: DC	
Benzene	3.8	1	μg/Kg	1	6/23/99
Toluene	16	2	μg/Kg	1	6/23/99
Ethylbenzene	10	1	μg/Kg	1	6/23/99
m,p-Xylene	320	2	μg/Kg	1	6/23/99
o-Xylene	120	1	μg/Kg	1	6/23/99
	469.8	Pon	<b>^</b>		

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

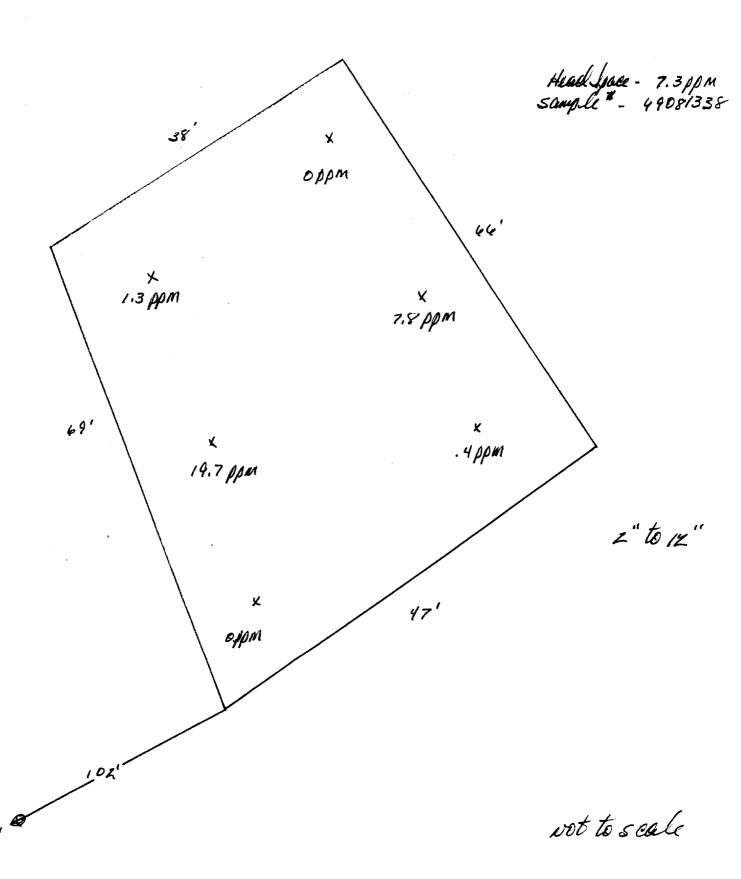
R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

e I of

# Land Level Drewing Approx 55 cu yeld





LAB: (505) 325-1556

### On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9908037

**CASE NARRATIVE** 

Date: 20-Aug-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

Date: 20-Aug-99

### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9908037

Lab ID:

9908037-05A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: Holder A1 LF

Client Sample ID: 9908131338; 6pt. Composite

Collection Date: 08/13/1999 1:38:00 PM

COC Record: 7654

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	<b>SW8015B</b> ND 25 mg/Kg			1	Analyst: <b>DC</b> 08/17/1999	

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:

Holder A #1

Well Legals:

Sec 6, T30N, R12W, Unit F

Pit Type:

Dehydrator Greater than 1.000 feet

Horizontal Distance to Surface Water:

50 feet to 99 feet

Groundwater Depth:

### **RISK ANALYSIS**

PNM requests closure of their former pit on the Holder A #1 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 75 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Farmington North, NM series 7.5 minute topographic map.)
- 2. PNM excavated 55 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 6 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 Holder A #1 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.