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

District II

State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION

District III 1000 Rio Brazos Rd, Aztec, NM 87410

P.O. Drawer DD, Artesia, NM 88221

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

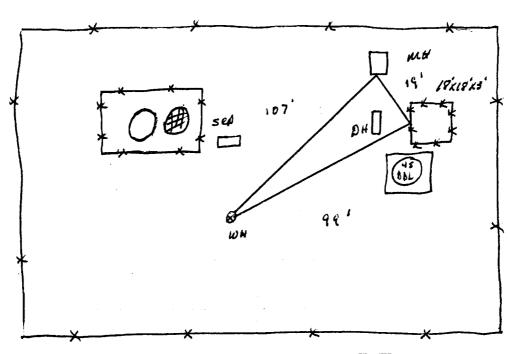
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Operator:	PN	M Gas Services	(Burlington)	Telephone	: 324-3764		-40 0	
Address:	603 W. I	Elm Street Farmi	ington, NM	87401				The term of the second	
Facility or W	ell Name:	Federal #1E							
Location:	Unit	J	Sec	18	T30 N	R <u>12 W</u>	County	San Juan	
Pit Type:	Separa	ntor	Dehyo	drator 🔽	. Oth	ner _			_
Land Type:	BLM	<u>₹</u> Sta	ite	Fee .	Otl	ner -			
Pit Location:		Pit dimensions:	length	_18 '	width	18 '	depth	3 '	
(Attach diagrai	m)	Reference:	wellhead	<u> </u>	other		 		
		Footage from ref	erence:	99'					_
i		Direction from re	eference: 6	5 Deg	rees <u>v</u>	_	North	<u>Z</u>	
					,	West	of South		
Depth to Gro	contaminants to	r:		50	ss than 50 feet feet to 99 feet r than 100 feet			(20 points) (10 points) (0 points)	0
Wellhead Pro (Less than 200 feet fron domestic water source,	m a private				Yes No			(20 points) (0 points)	0
feet from all other wate Distance to S	er sources)			ī	ess than 200 feet			(20 points)	
(Horizontal distance to ponds, rivers, streams, (perennial lakes,			200	feet to 1,000 feet or than 1,000 feet			(10 points) (0 points)	0
canals and ditches				RAN	KING SCOR	E (TOTAI	L POINTS)	:	0

Federal #1E		D 4 G 1443
Date Remediation Started:	06/14/1999	Date Completed: 06/15/1999
Remediation Method:	Excavation x	Approx. Cubic Yard 133
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds) 133
sections)	Other	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X	Offsite
Backfill Material Location:		
General Description of Ren	nedial Action:	
	I to a pit size of 24' X 15' X 10' and lan	dfarmed soil onsite within a bermed area at a depth of 6"
	at 10'. See attached risk analysis form.	
Sandstone encountered	at 10. See attached lisk analysis form.	
Ground Water Encountere	d: No ♥	Yes Depth
Final Pit Closure Sampling:	Sample Location 5 pt. composi	ite - bottom.
(if multiple samples, attach sample result and diagram of	Sample depth 10'	
sample locations and depths.)	Sample date 06/15/1999	Sample time 7:15:00 AM
	Sample Results	
	Benzene (ppm)	0.52
	Total BTEX (ppm)	134.92 ***
	Field headspace (ppm)	
	TPH (ppm) 280.00	Method 8015B
Vertical Extent (ft)	Ris	k Analysis form attached Yes No
Ground Water Sample:	Yes No	(If yes, see attached Groundwater Site Summary Report)
I HEREBY CERTIFY THA KNOWLEDGE AND MY I		TRUE AND COMPLETE TO THE BEST OF MY
DATE October 28, 19 SIGNATURE	99 Mauring Jane	PRINTED NAME Maureen Gannon AND TITLE Project Manager



Federal *1E (J) 18-300-12W Burlington 6-14-94 @ 1420



Excavation Sampling

DID Readings

S' 2035 ppm vorthwall sample

10' 2347 ppm

west wall sample

at 10' - 502 ppm

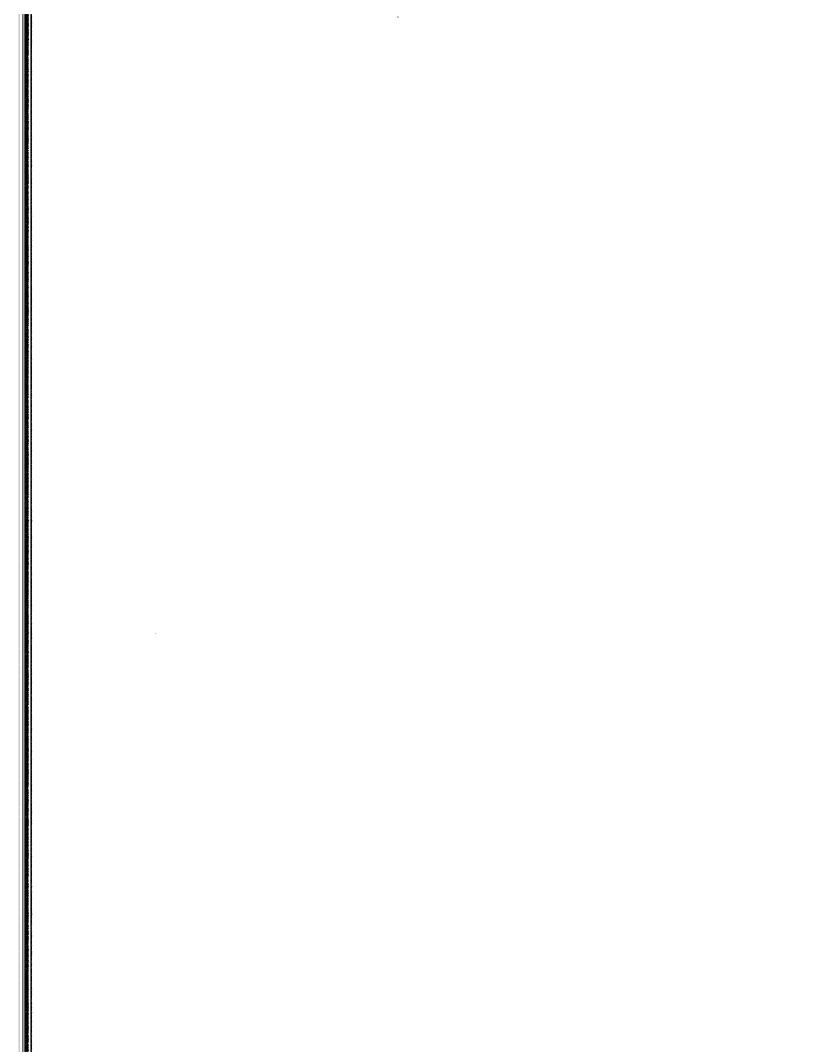
facturall sample

at 10' - 1760 ppm

Field Headspace - 898 (walls)

south wall sample

at 10' - 15 ppm



ON SITE
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

Date: 30-Jun-99

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9906054

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: 30-Jun-99

Client:

PNM - Public Service Company of NM

Work Order:

9906054

9906054-01A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Federal #1E

Client Sample ID: 9906150715; 5pt. Bottom Comp

Collection Date: 6/15/99 7:15:00 AM

COC Record: 7639

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	280	25		mg/Kg	1	6/28/99
AROMATIC VOLATILES BY GC/PID	SI	N8021B				Analyst: DC
Benzene	520	250		μg/Kg	250	6/23/99
Toluene	37000	500		μg/Kg	250	6/23/99
Ethylbenzene	7400	250		μg/Kg	250	6/23/99
m,p-Xylene	72000	500		μg/Kg	250	6/23/99
o-Xylene	18000	250		μg/Kg	250	6/23/99
• · · · · · · · ·	134920	2				
	134.92					

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:

Lab ID:

Project:

PNM - Public Service Company of NM

Work Order:

9906054

9906054-02A

PNM Pit Remediation

Matrix: SOIL

Client Sample Info: Federal #1E

Client Sample ID: 9906150720; 4pt. Wall Comp

Collection Date: 6/15/99 7:20:00 AM

COC Record: 7639

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV ND	V8015B	mg/Kg	1	Analyst: DC 6/25/99	

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

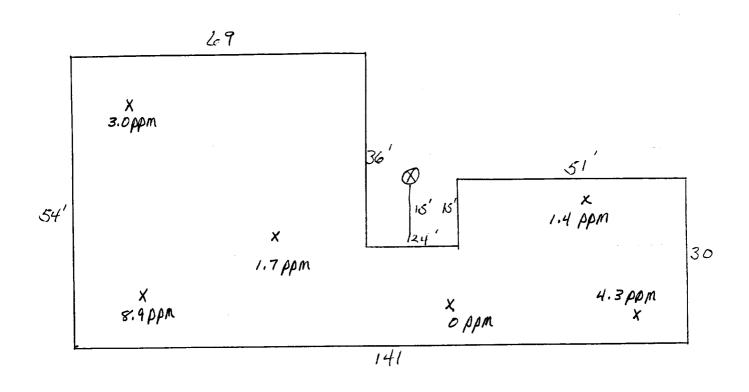
E - Value above quantitation range

Surr: - Surrogate

1 of 1

Sec. 18 T30NR12W Unif J Burlington

LANdform Drowing



Not to sonle

Head space - 10.7 ppm sample # - 9908101400





LAB: (505) 325-1556

Date: 16-Aug-99

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9908025

On Site Technologies, LTD.

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: 16-Aug-99

Client:

PNM - Public Service Company of NM

Work Order:

9908025

Lab ID:

9908025-03A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: Federal #1E LF

Client Sample ID: 9908101400; 6pt. Composite

Collection Date: 08/10/1999 2:00:00 PM

COC Record: 7681

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 08/11/1999

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

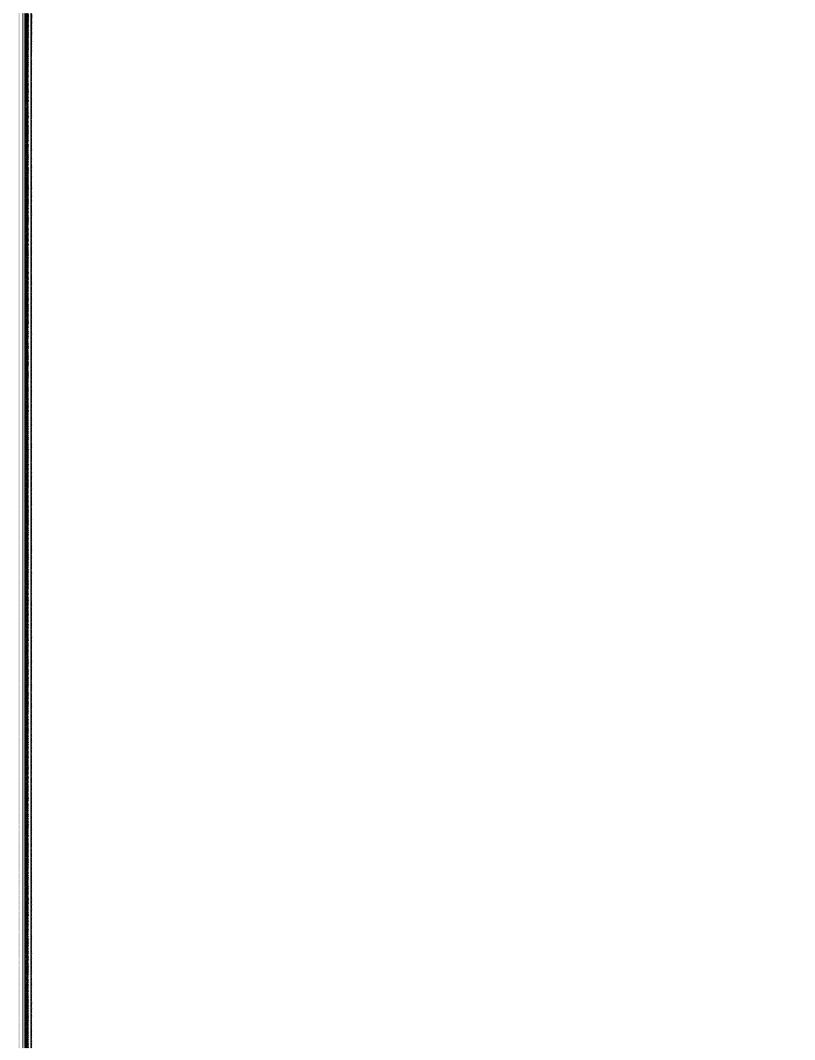
S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1





Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Federal #1E Sec 18, T30N, R12W, Unit J Dehydrator Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

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

- Groundwater is estimated to be at a depth of 276 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.)
- PNM excavated 133 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.
- 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 Federal #1E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.

