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

District If P.C. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Aztec, NM 87410

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

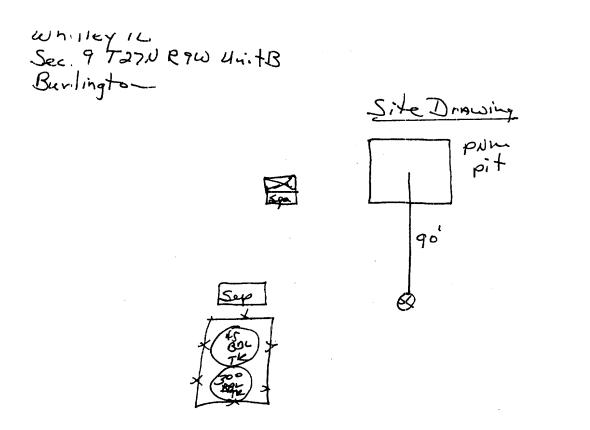
OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Se	rvices (Burlington)	Telephone:	324-3764	ļ		
Address:	603 W. Elm Stree	t Farmington, NM	87401					
Facility or W	ell Name: Whitle	y #7E				 		
Location:	UnitF	Sec	<u>9</u> T		. <u>9 W</u>	County	San Juan	
Pit Type:	Separator 🔽	Dehyd	irator	Other	_			
Land Type:	BLM <u>•</u>	State	Fee	Other				
Pit Location:	Pit dime	nsions: length	15 '	width	15 '	depth	3 '	
(Attach diagram	m) Reference	e: wellhead	$\mathbf{\overline{2}}$	other	·			·
	Footage f	rom reference:	90'					
	Direction	from reference: D	ue Degrees	s <u> </u>	East	North	<u> </u>	
					West	of South	<u> </u>	
Depth to Grou	contaminants to		50 fee	han 50 feet t to 99 feet an 100 feet	•		(20 points) (10 points) (0 points)	0
water Wellhead Pro	,	JAN S	1 mm					
(Less than 200 feet from domestic water source, t feet from all other water	n a private or, less than 1,000	OUL CON	I. DIV.	Yes No			(20 points) (0 points)	0
Distance to St	perennial lakes,	hanner or a second	200 feet	than 200 feet to 1,000 feet an 1,000 feet			(20 points) (10 points) (0 points)	0
canals and ditches			RANKI	NG SCORE	(TOTAL	POINTS)	:	0

Whitley #7E		
Date Remediation Started:	07/19/1999	Date Completed: 07/19/1999
Remediation Method:	Excavation x	Approx. Cubic Yard108
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds) 70
sections)	Other 38 cu yds clean overburden.	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X	Offsite
Backfill Material Location:		
12". Soil was aerated by disk		farmed soil onsite within a bermed area at a depth of 6" to vels.
Ground Water Encountered	d: No <u>✓</u>	Yes Depth
Final Pit Closure Sampling:	Sample Location 5 pt composi	te-bottom
(if multiple samples, attach sample result and diagram of	Sample depth 7'	
sample locations and depths.)	Sample date <u>07/19/1999</u>	Sample time10:35:00 AM
	Sample Results	•
	Benzene (ppm)	9.9
•	Total BTEX (ppm)	213.9***
	Field headspace (ppm)	
	TPH (ppm) 3180.00	Method 8015B
Vertical Extent (ft)	Ris	sk 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 January 24, 20 SIGNATURE	January January	PRINTED NAME Maureen Gannon AND TITLE Project Manager



Excoportion Drawing:

South wall

Sample 6'

67.3pp

Bottom

Sample 6'

6.7pp

South wall

Sample 6'

1.9pp

South wall

Sample 6'

1.9pp

Field Headspace: 13.8 ppm (walls)

Not to scale

OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Whitley 8 & 7E

Lab Order:

9907045

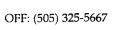
CASE NARRATIVE

Date: 04-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

ANALYTICAL REPORT

Date: 04-Aug-99

Client:

PNM - Public Service Company of NM

Work Order:

Lab ID:

Project:

9907045

9907045-04A

Whitley 8 & 7E

Matrix: SOIL

Client Sample Info: Whitley 7E

Client Sample ID: 9907191035; 5pt Bottom Comp

Collection Date: 7/19/99 10:35:00 AM

COC Record: 7492

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B		N	Analyst: DC
T/R Hydrocarbons: C10-C28	3180	25	mg/Kg	1	7/30/99
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DC
Benzene	9900	1000	μg/Kg	1000	7/29/99
Toluene	71000	2000	μ g /Kg	1000	7/29/99
Ethylbenzene	10000	1000	μg/Kg	1000	7/29/99
m,p-Xylene	100000	2000	μ g /Kg	1000	7/29/99
o-Xylene	23000	1000	μg/Kg	1000	7/29/99
	2,1390				
	21390		~		

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: - Surregate

I of I



LAB: (505) 325-1556

Date: 04-Aug-99

ANALYTICAL REPORT

Client:

OFF: (505) 325-5667

PNM - Public Service Company of NM

Work Order:

9907045

9907045-03A

Matrix: SOIL

Project:

Lab ID:

Whitley 8 & 7E

Client Sample Info: Whitley 7E

Client Sample ID: 9907191034; 4pt Wall Comp

Collection Date: 7/19/99 10:34:00 AM

COC Record: 7492

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

P.O. BOX 2606 • FARMINGTON, NM 87499

	LAND FAME DAS	App 33'	cu yds
	31.7 ppm		19.7ppm
30'		11.3 ppm	
	13.6ррт		96.3ppn
45		3" to 12" Headspace Sample # 99	328 ppm

Not to scale

OFF: (505) 325-5667

ON SITE

LAB: (505) 325-1556

TECHNOLOGIES, LTD

On Site Technologies, LTD.

Date: 15-Sep-99

CLIENT:

PNM - Public Service Company of NM

Project:

Hanks & Whitley Landfarms

Lab Order:

9909004

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: 15-Sep-99

Client:

PNM - Public Service Company of NM

Work Order:

9909004

Lab ID:

9909004-07A

Matrix: SOIL

COC Record: 7655

Client Sample Info: Whitley #7E LF

Client Sample ID: 9909011000; 5pt Composite

Collection Date: 9/1/99 10:00:00 AM

Hanks & Whitley Landfarms Project:

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	W8015B			Analyst: DM
T/R Hydrocarbons: C10-C28	2000	25	mg/Kg	1	9/9/99
AROMATIC VOLATILES BY GC/PID	SI	N8021B			Analyst: HR
Benzene	ND	100	µg/Kg	100	9/7/99
Toluene	ND	200	μg/Kg	100	9/7/99
Ethylbenzene	350	100	μ g/K g	100	9/7/99
m,p-Xylene	3700	200	μg/Kg	100	9/7/99
o-Xylene	180	100	μ g /Kg	100	9/7/99
•	4230				
•	4.230	ppm			

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:

Whitley #7E

Sec 9, T27N, R9W, Unit F

Separator

Greater than 1,000 feet

Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Whitley #7E well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 380 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Huerfanito Peak, NM series 7.5 minute topographic map.)
- PNM excavated 108 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 7 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 Whitley #7E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.