District I P.O. Box 1980 Hospitaly 2. Forust District II P.O. Drawe DERUSTNO 1828 GAS INSPECTOR

District III 1000 Rio Brazos Rd, Azteo SM 1974 0 3 1999

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

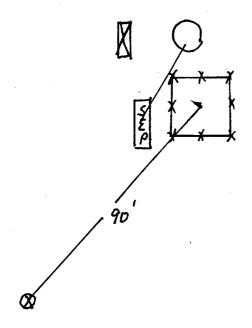
The same of the same of			NE POLICE
Operator:	PNM Gas Services (Burlington) Telephone: 324-3764	
Address:	603 W. Elm Street Farmington, NM 8740	01	
Facility or W	/ell Name: Chamberlain #2		
Location:	Unit A Sec 1	4 T 32 N R 12 W County S	San Juan
Pit Type:	Separator Dehydrato	or Other	
Land Type:	BLM State	Fee 🔽 Other	
Pit Location:	Pit dimensions: length	20' width 20' depth	3 '
(Attach diagra	am) Reference: wellhead 🔽	other	<u>.</u>
	Footage from reference:	00,	
	Direction from reference: 36	Degrees Fast North	2
		of West South	
Depth to Gro (Vertical distance from seasonal high water cluwater	n contaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) 0
Wellhead Pr (Less than 200 feet fro domestic water source feet from all other wat	e, or, less than 1,000	Yes No	(20 points) (0 points) 0
(Horizontal distance to		Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)
ponds, rivers, streams canals and ditches	, creeks, irrigation	RANKING SCORE (TOTAL POINTS):	0

Chamberlain #2			Data (2 1.4.1	
Date Remediation Started:	04/22	/1999	Date Completed: 0	4/22/1999
Remediation Method:	Excavation	<u> </u>	Approx. Cubic Yard	298
(Check all appropriate	Landfarmed	×	Amount Landfarmed (cubic y	/ds)298
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:			
Excavated contaminated soi to 12". Soil was agrated by contaminated by contaminated by contaminated by contaminated by contaminated soil by contaminated soi	I to a pit size of	31' X 26' X 10' and lar	ndfarmed soil onsite within a bermed a	area at a depth of 6"
*** Sandstone encountered				
Ground Water Encountere	d: No	<u> </u>	Yes Depth	
Final Pit Closure Sampling:	Sample Locat	ion 5 pt. compos	site - bottom of excavation.	
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depti	10'		
sample locations and deputs.)	Sample date	04/22/1999	Sample time	10:00:00 AM
	Sample Resul	ts		
	Benz	ene (ppm)	0.750	
	Total	BTEX (ppm)	78.450 *** <u></u>	
	Field	headspace (ppm)		
	TPH (ppm)	830.00	Method 8015B	
Vertical Extent (ft)		R	isk Analysis form attached Yes	V No <u> </u>
Ground Water Sample:	Yes _	No	(If yes, see attached Ground Summary Report)	undwater Site
I HEREBY CERTIFY THA KNOWLEDGE AND MY		MATION ABOVE IS	S TRUE AND COMPLETE TO THE	BEST OF MY
DATE July 27, 1999 SIGNATURE	uree O Yo	Mon	PRINTED NAME Maureen AND TITLE Project N	

Chamberlain #2 Burlington Sec. 14,320, 12W, A

4/21/99 P N

-site diagram:



End of exerction:

	31		Ī
1510 pm		2208 pm	
	10' Sandston		26'
	+ 2018 ppm		
1162pp		.2210 Mn	



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Chamberlain #2

Lab Order:

9904053

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: 04-May-99

Client:

Project:

PNM - Public Service Company of NM

Matrix: SOIL

Work Order:

9904053

Lab ID:

9904053-01A

Chamberlain #2

Client Sample Info: Chamberlain #2

Client Sample ID: 9904221000; Bottom @ 10ft.

Collection Date: 4/22/99 10:00:00 AM

COC Record: 7574

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B	· ··= ···- ·		Analyst: DC
T/R Hydrocarbons: C10-C28	830	25	mg/Kg.	1	4/30/99
AROMATIC VOLATILES BY GC/PID	SV	V8021B	•		Analyst: HR
Benzene	750	500	µg/Kg	500	4/26/99
Toluene	11000	2000	μg/Kg	1000	4/26/99
Ethylbenzene	7700	1000	μg/Kg	1000	4/26/99
m,p-Xylene	46000	2000	μg/Kg	1000	4/26/99
o-Xylene	_13000	1000	μg/Kg	1000	4/26/99
·	78450				
		J			
	78.45	blan)		

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: 04-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9904053

Lab ID:

Project:

9904053-02A

Matrix: SOIL

Chamberlain #2

Client Sample Info: Chamberlain #2

Client Sample ID: 9904221010; Walls @ 5ft.

Collection Date: 4/22/99 10:10:00 AM

COC Record: 7574

		_			
DIESEL RANGE ORGANICS	S	W8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25	mg/k/g-	1	4/30/99
AROMATIC VOLATILES BY GC/PID	S'	W8021B			Analyst: HR
Benzene	ND	1	μg/Kg	1	4/26/99
Toluene	ND	2	μg/Kg	1	4/26/99
Ethylbenzene	ND	1	μg/Kg	1	4/26/99
m,p-Xylene	ND	2	μg/Kg	1	4/26/99
o-Xylene	1.2	1	μg/Kg	1	4/26/99

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

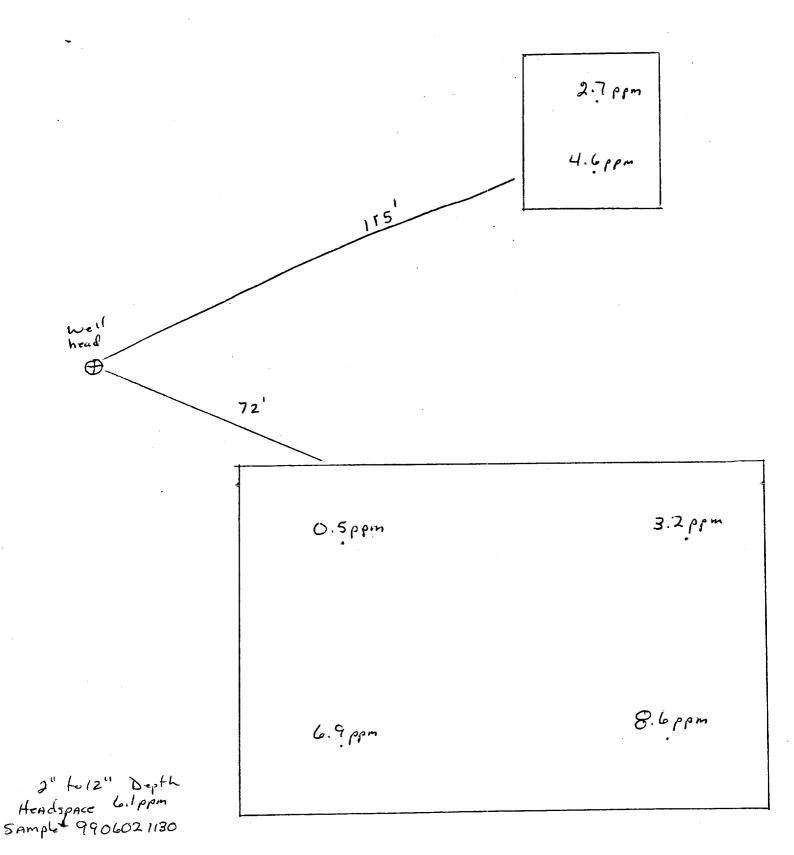
R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

Land Carm DRAwing





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9906007

CASE NARRATIVE

Date: 14-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

ANALYTICAL REPORT

Date: 14-Jun-99

Client:

PNM - Public Service Company of NM

Work Order:

9906007

9906007-01A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation Landfarms

Client Sample Info: Chamberlain #2 LF

Client Sample ID: 9906021130; 6pt. Comp

Collection Date: 6/2/99 11:30:00 AM

COC Record: 7715

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 120	V8015B 25	.mg/Kg	1	Analyst: DC 6/7/99

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:

Chamberlain #2
Unit A, Sec 14, T32N, R12W
Separator
Greater than 1,000 feet
Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Chamberlain #2 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 264 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Adobe Downs Ranch, NM series 7.5 minute topographic map.)
- 2. PNM excavated 298 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 their former pit on the Chamberlain #2 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.