District I P.O. Box 1980, Hobbs, NM State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

District II P.O. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Aztec, NM 87410

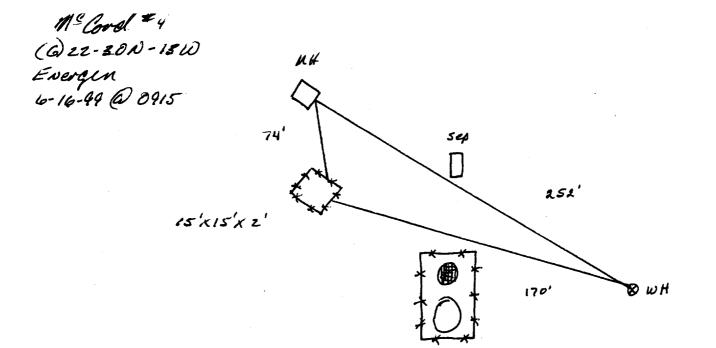
OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

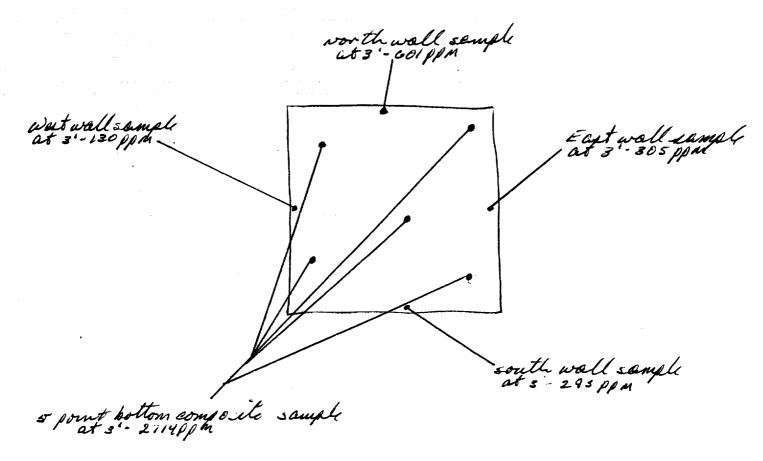
Operator:	PNM Gas Services (Energen) Telephone:	324-3764				
Address: 603 \	W. Elm Street Farmington, NM 874	01					
Facility or Well Name: McCord #4							
Location: U	nit G Sec 2	<u>2</u> T <u>30 N</u> R	13 W County	San Juan			
Pit Type: Se	parator Dehydrato	r 🔽 Other					
Land Type: BL	M State	Fee 🗹 Other	<u>-</u> -				
Pit Location:	Pit dimensions: length	15 width	15 depth	2 '			
(Attach diagram)	Reference: wellhead 🔽	other			_		
	Footage from reference:	70'					
	Direction from reference: 74	Degrees	East North	<u>\\ \</u>			
		· <u>V</u>	of West South				
Depth to Ground W (Vertical distance from contaminat seasonal high water elevation of grwater	nts to oound	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points)	0		
Wellhead Protection (Less than 200 feet from a private domestic water source, or, less that feet from all other water sources)	DUSTE DE	Yes No		(20 points) (0 points)	0		
Distance to Surface (Horizontal distance to perennial I ponds, rivers, streams, creeks, irrig	Water:	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points)	0		
canals and ditches	<u>.</u>	RANKING SCORE	(TOTAL POINTS)	:	0		

McCord #4		
Date Remediation Started:	06/16/1999	Date Completed: 06/16/1999
Remediation Method:	Excavation X	Approx. Cubic Yard20
(Check all appropriate sections)	Landfarmed X	Amount Landfarmed (cubic yds)
sections)	Other	· · · · · · · · · · · · · · · · · · ·
Remediation Location:	Onsite X	Offsite
(i.e., landfarmed onsite, name and location of offsite facility)		
Backfill Material Location:	•	
General Description of Rem	nedial Action:	
Excavated contaminated soil 12". Soil was aerated by disk	to a pit size of 15' X 12' X 3' and landfa	rmed soil onsite within a bermed area at a depth of 6" to
	at 3'. See attached risk analysis form.	
Ground Water Encountered	d: No 🔽 Ye	Depth
Final Pit Closure Sampling:	Sample Location 5 pt composite-	bottom
(if multiple samples, attach sample result and diagram of	Sample depth 3'	
sample locations and depths.)	Sample date 06/16/1999	Sample time 10:35:00 AM
	Sample Results	
	Benzene (ppm)	4
•	Total BTEX (ppm)	151.4***
·	Field headspace (ppm)	
	TPH (ppm) 95.00	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 THA' KNOWLEDGE AND MY E		RUE AND COMPLETE TO THE BEST OF MY
DATE January 24, 200 SIGNATURE Ma	urely Janon	PRINTED NAME Maureen Gannon AND TITLE Project Manager —



Excavation Sampling
PI Dreading at 3'- 2943 ppm

15 (N+5) K12 (I+W) x3(0)



mati enl



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9906059

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:

9906059

9906059-03A

7700037

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: McCord #4

Client Sample ID: 9906161035; 5pt. Bottom Comp

Collection Date: 6/16/99 10:35:00 AM

COC Record: 7640

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	95	25	mg/Kg	1	6/29/99
AROMATIC VOLATILES BY GC/PID	sv	V8021B			Analyst: DC
Benzene	4000	500	μg/Kg	500	6/24/99
Toluene	56000	1000	μg/Kg	500	6/24/99
Ethylbenzene	8400	500	μg/Kg	500	6/24/99
m,p-Xylene	67000	1000	μg/Kg	500	6/24/99
o-Xylene	16000	500	μg/Kg	500	6/24/99
	15140	D			
	151.40	maga ()		

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

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jun-99

Client:

PNM - Public Service Company of NM

Work Order:

9906059

9906059-04A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: McCord #4

Client Sample ID: 9906161040; 4pt. Wall Comp

Collection Date: 6/16/99 10:40:00 AM

COC Record: 7640

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/29/99
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DC
Benzene	ND	1	μ g /Kg	1	6/23/99
Toluene	ND	2	μg/Kg	1	6/23/99
Ethylbenzene	2.3	1	μ g /Kg	1	6/23/99
m,p-Xylene	19	2	μg/Kg	1	6/23/99
o-Xylene	77	1	μg/Kg	1	6/23/99

Qualifiers:

PQL - Practical Quantitation Limit

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J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

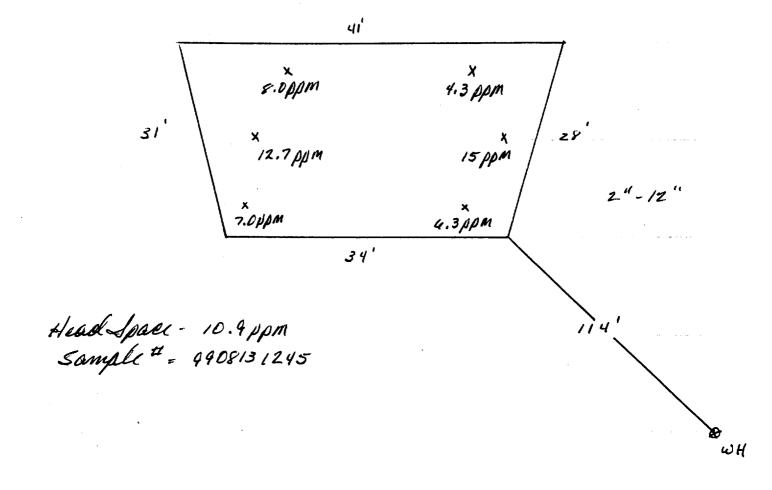
R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

Land farm Drawing



not to scale

CLIENT:



LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

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.

OFF: (505) 325-5667

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 20-Aug-99

Client:

PNM - Public Service Company of NM

Work Order:

9908037

9908037-03A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation Landfarms

Client Sample Info: McCord #4 LF

Client Sample ID: 9908131245; 6pt. Composite

Collection Date: 08/13/1999 12:45:00 PM

COC Record: 7654

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

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

McCord #4
Sec 22, T30N, R13W, Unit G
Dehydrator
Greater than 1,000 feet
Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the McCord #4 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 317 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 20 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 3 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 McCord #4 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.