

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 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Burlington)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: East #10M			
Location:	Unit <u>N</u>	Sec <u>26</u>	T <u>31 N</u> R <u>12 W</u> County <u>San Juan</u>
Pit Type:	Separator ☐	Dehydrator ☒	Other ☐
Land Type:	BLM ☒	State ☐	Fee ☐ Other ☐
Pit Location: Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '			
(Attach diagram)	Reference: wellhead ☒ other ☐		
Footage from reference: <u>96</u> '			
Direction from reference: <u>10</u> Degrees ☐ East ☒ North ☐ South ☒ West			
Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	<u>0</u>
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		Yes (20 points) No (0 points)	<u>0</u>
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS):			<u>0</u>

East #10M

Date Remediation Started: 06/02/1999 Date Completed: 06/02/1999

Remediation Method: Excavation x Approx. Cubic Yard 18
(Check all appropriate sections) Landfarmed x Amount Landfarmed (cubic yds) 18
Other

Remediation Location: Onsite X Offsite
(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 10' X 10' X 5' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

*** Sandstone encountered at 5'. See attached risk analysis form.

Ground Water Encountered: No [checked] Yes [] Depth

Final Pit Closure Sampling: Sample Location 5 pt. composite - bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.) Sample depth 5'

Sample date 06/02/1999 Sample time 9:40:00 AM

Sample Results

Benzene (ppm) 16

Total BTEX (ppm) 512 ***

Field headspace (ppm)

TPH (ppm) 600.00 Method 8015B

Vertical Extent (ft) Risk Analysis form attached Yes [checked] No []

Ground Water Sample: Yes [] No [checked] (If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

East # 10 m

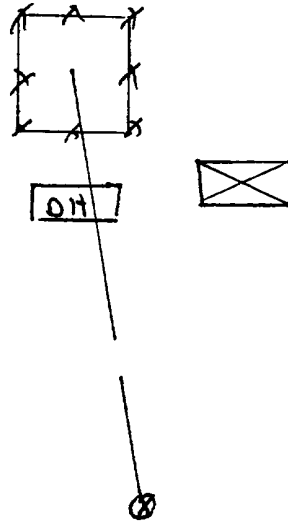
Burlington

Sec. 26. 31 N, 12 W, N

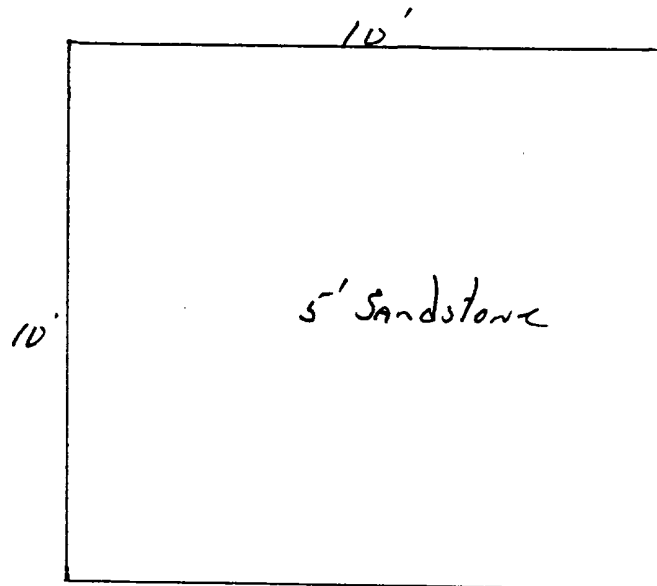
6-2-99

↑
N

Site drawing:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9906009

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



LC

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East #10M
Work Order:	9906009	Client Sample ID:	9906020940; 5ft. <i>Bottom</i>
Lab ID:	9906009-04A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/2/99 9:40:00 AM
		COC Record:	7603

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	600	25		mg/Kg	1	6/11/99
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DC
Benzene	16000	2500		µg/Kg	2500	6/10/99
Toluene	200000	5000		µg/Kg	2500	6/10/99
Ethylbenzene	26000	2500		µg/Kg	2500	6/10/99
m,p-Xylene	220000	5000		µg/Kg	2500	6/10/99
o-Xylene	50000	2500		µg/Kg	2500	6/10/99

512000
512 ppm

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Sur: - Surrogate

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East #10M
Work Order:	9906009	Client Sample ID:	9906020945; 2ft. <i>Walls</i>
Lab ID:	9906009-05A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/2/99 9:45:00 AM
		COC Record:	7603

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	11000	120		mg/Kg	5	6/14/99
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DC
Benzene	ND	100		µg/Kg	100	6/10/99
Toluene	3500	200		µg/Kg	100	6/10/99
Ethylbenzene	1200	100		µg/Kg	100	6/10/99
m,p-Xylene	19000	200		µg/Kg	100	6/10/99
o-Xylene	5100	100		µg/Kg	100	6/10/99

28800
28.8 ppm

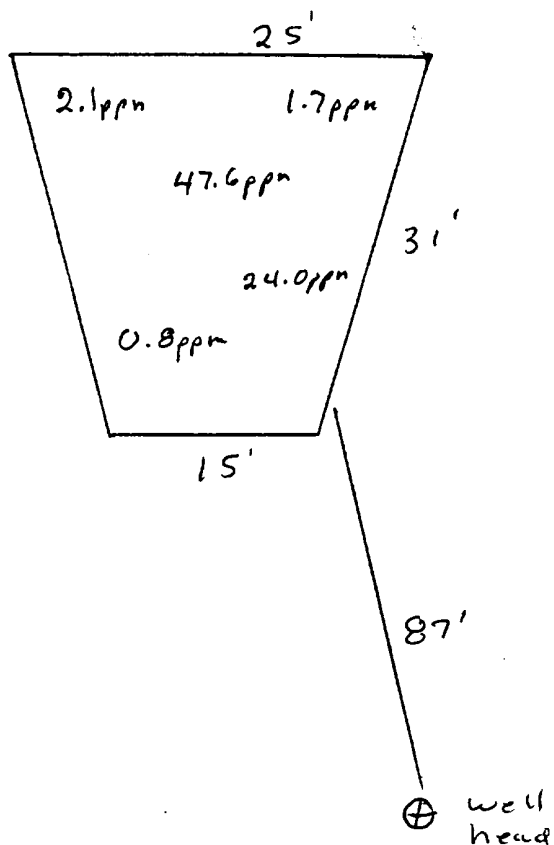
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EAST 10M
SEC-26 T-31N R-12W 46-N
Burlington

Land farm Drawing

App 18 cu yds



2" to 12" Depth
69.3ppm
Headspace 9907121015 (RB)
Sample # 9907121015

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 23-Jul-99

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation Landfarms

Lab Order: 9907027

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: 23-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East 10M LF
Work Order:	9907027	Client Sample ID:	9907121015; 5pt. Comp
Lab ID:	9907027-09A	Matrix:	SOIL
Project:	PNM Pit Remediation Landfarms	Collection Date:	7/12/99 10:15:00 AM
		COC Record:	7484

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	1000	25		mg/Kg	1	7/22/99

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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Environmental Services

Well Name:	East #10M
Well Legals:	Unit N, Sec 26, T31N, R12W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the East #10M well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Flora Vista, NM series 7.5 minute topographic map.)
2. PNM excavated 18 cubic yards of soil from the former pit. Source removal minimizes the possibility of surface water contamination.
3. Sandstone was encountered at 5 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 East #10M well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.