

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

Risk
Block

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 #5A			
Location:	Unit <u>C</u>	Sec <u>24</u>	T <u>31 N</u> R <u>12 W</u> County <u>San Juan</u>
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other _____
Land Type:	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other _____
Pit Location:	Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other _____		
	Footage from reference: <u>105</u> '		
	Direction from reference: <u>80</u> Degrees <input type="checkbox"/> East North <input type="checkbox"/>		
	of <input checked="" type="checkbox"/> West South <input checked="" type="checkbox"/>		
Depth to Ground Water:	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) <u>0</u>		
<small>(Vertical distance from contaminants to seasonal high water elevation of ground water)</small>			
Wellhead Protection Area:	Yes (20 points) No (0 points) <u>0</u>		
<small>(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)</small>			
Distance to Surface Water:	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points) <u>0</u>		
<small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small>			
RANKING SCORE (TOTAL POINTS):			<u>0</u>

RECEIVED
JAN 31 2000
OIL CON. DIV.
EST. 3

East #5A

Date Remediation Started: 05/26/1999

Date Completed: 05/26/1999

Remediation Method:

Excavation ☒

Approx. Cubic Yard 11

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 11

Other _____

Remediation Location:

Onsite ☒

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 3' 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 3'. See attached risk analysis form.

Ground Water Encountered:

No



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 3'

Sample date 05/26/1999

Sample time 2:35:00 PM

Sample Results

Benzene (ppm) 30 ***

Total BTEX (ppm) 158 ***

Field headspace (ppm) _____

TPH (ppm) 950.00

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

DATE January 24, 2000

SIGNATURE



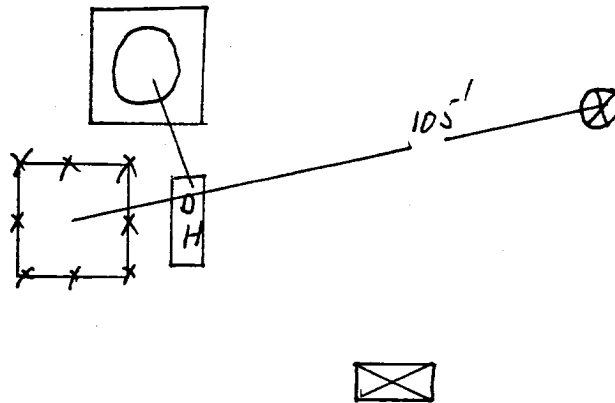
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

East # 5A
Burlington
Sec. 24, 31N, 12W, C

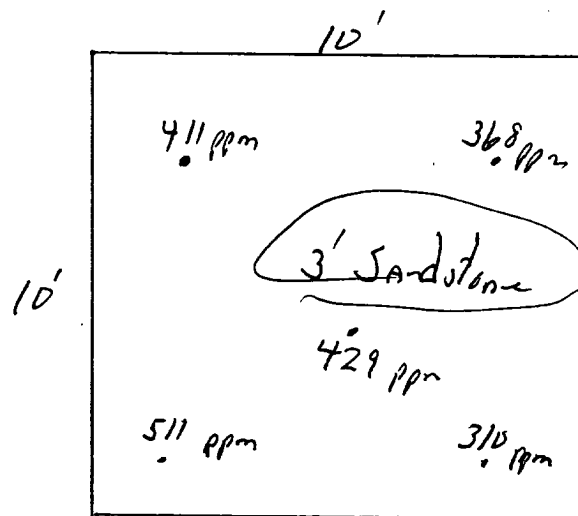
5/26/99

Site diagram:

↑
N



End of excavation



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 08-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: East #5 & #5A

Lab Order: 9905096

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



Lary

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info: East #5A
Work Order:	9905096	Client Sample ID: 9905261435; Bottom @ 3ft.
Lab ID:	9905096-03A	Matrix: SOIL
Project:	East #5 & #5A	Collection Date: 5/26/99 2:35:00 PM
		COC Record: 7600

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	950	25		mg/Kg	1	6/3/99
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DC
Benzene	30000	2500		µg/Kg	2500	6/1/99
Toluene	45000	5000		µg/Kg	2500	6/1/99
Ethylbenzene	6000	2500		µg/Kg	2500	6/1/99
m,p-Xylene	65000	5000		µg/Kg	2500	6/1/99
o-Xylene	12000	2500		µg/Kg	2500	6/1/99

158000
158.0 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	Surr: - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East #5A
Work Order:	9905096	Client Sample ID:	9905261440; Walls @ 1ft.
Lab ID:	9905096-04A	Matrix:	SOIL
Project:	East #5 & #5A	Collection Date:	5/26/99 2:40:00 PM
		COC Record:	7600

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/4/99

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

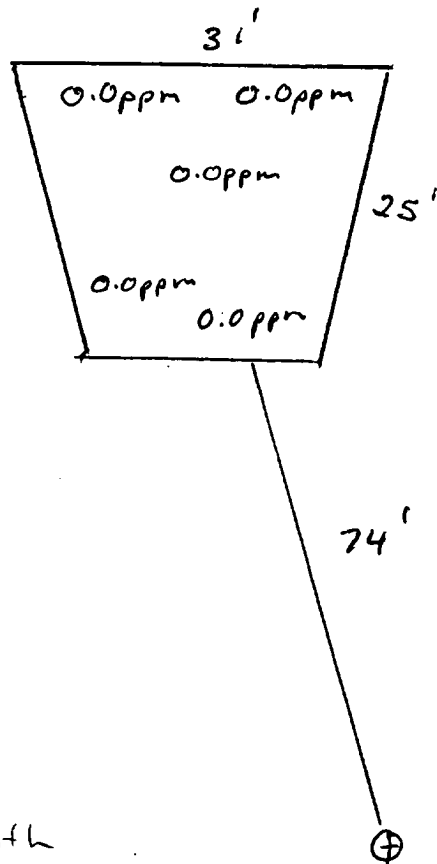
P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGIES, LTD. 10000 N. 10TH AVE. SUITE 100 FARMINGTON, NM 87401

EAST 5A
Sec-24 T-31N R-12W 4L-C
Burlington

LANDFARM DRAWING

App 11 cu yds



2" to 12" Depth
Headspace 0.0ppm
Sample # 9907121425

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 28-Jul-99

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation Landfarms
Lab Order: 9907028

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: 28-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	East 5A LF
Work Order:	9907028	Client Sample ID:	9907121425; 5pt. Comp
Lab ID:	9907028-01A	Matrix:	SOIL
Project:	PNM Pit Remediation Landfarms	Collection Date:	7/12/99 2:25:00 PM
		COC Record:	7488

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	54	25		mg/Kg	1	7/22/99

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

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TECHNICAL REPORTS ARE PREPARED BY THE QUALITY ASSURANCE DEPARTMENT



Environmental Services

Well Name:	East #5A
Well Legals:	Unit C, Sec 24, 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 #5A well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 229 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Adobe Downs, NM series 7.5 minute topographic map.)
2. PNM excavated 11 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 their former pit on the East #5A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.

