

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

RECEIVED
NOV - 1 1999
OIL CON. DIV.
DIST. 3

Operator: PNM Gas Services (Burlington) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Grenier #4A Sep

Location: Unit M Sec 7 T 31 N R 11 W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other

Land Type: BLM ☒ State ☐ Fee ☐ Other

Pit Location: Pit dimensions: length 12' width 12' depth 3'

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 120'

Direction from reference: Due Degrees ☐ East North ☒
of ☐ West South ☐

Depth to Ground Water: Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water) Greater than 100 feet (0 points) 0

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources) No (0 points) 0

Distance to Surface Water: Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Greater than 1,000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Grenier #4A Sep

Date Remediation Started: 05/20/1999

Date Completed: 05/20/1999

Remediation Method:

Excavation ☒

Approx. Cubic Yard 167

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 167

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 15' X 15' X 20' 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.

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 20'

Sample date 05/20/1999

Sample time 11:40:00 AM

Sample Results

Benzene (ppm) < 0.05

Total BTEX (ppm) 14.9

Field headspace (ppm)

TPH (ppm) 1380.00

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 October 28, 1999

SIGNATURE

Maureen Gannon

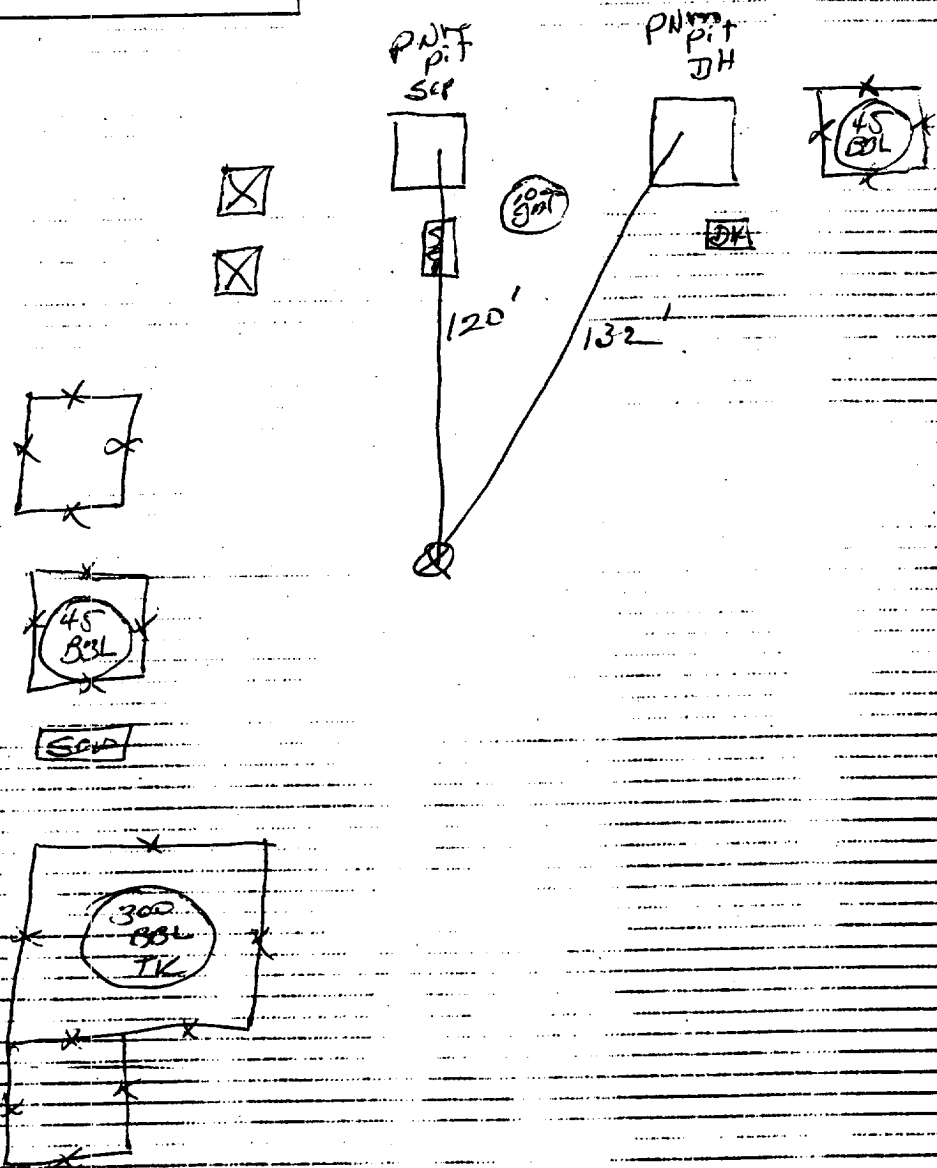
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

| | | | | |
|--------------------|----------------|-----|-----|------|
| Well Name: | Grenier 4A Sep | | | |
| Legal Description: | Sec | Twn | Rng | Unit |
| | 7 | 31N | 11W | n |
| Burlington | | | | |

| |
|---------------|
| Data Sheet #: |
| |



Site Drawing



Grenier #4A
Sec-7 T-31N R11W 42M
Burlington

EXCAVATION DRAWING

15X15X20

167 cu yds

North wall
Sample 18'
11.6 ppm

West wall
Sample 18'
2.4 ppm

East wall
Sample 18'
5.3 ppm

South wall
Sample 17'
828 ppm

Bottom
Sample 20'
743 ppm

Field Headspace: 25.1 ppm (walls)

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 02-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: Grenier #4A Sep

Lab Order: 9905072

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: 02-Jun-99

| | | | |
|--------------------|------------------------------------|----------------------------|------------------------|
| Client: | PNM - Public Service Company of NM | Client Sample Info: | Grenier #4A Bottom |
| Work Order: | 9905072 | Client Sample ID: | 9905201140; 5pt. Comp. |
| Lab ID: | 9905072-03A | Matrix: | SOIL |
| Project: | Grenier #4A Sep | Collection Date: | 5/20/99 11:40:00 AM |
| | | COC Record: | 7623 |

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|------|-------|----|---------------|
| DIESEL RANGE ORGANICS | | SW8015B | | | | Analyst: DC |
| T/R Hydrocarbons: C10-C23 | 1380 | 25 | | mg/Kg | 1 | 5/27/99 |
| AROMATIC VOLATILES BY GC/PID | | SW8021B | | | | Analyst: DM |
| Benzene | ND | 50 | | µg/Kg | 50 | 5/21/99 |
| Toluene | ND | 100 | | µg/Kg | 50 | 5/21/99 |
| Ethylbenzene | 1800 | 50 | | µg/Kg | 50 | 5/21/99 |
| m,p-Xylene | 9300 | 100 | | µg/Kg | 50 | 5/21/99 |
| o-Xylene | 3800 | 50 | | µg/Kg | 50 | 5/21/99 |

14900
14.9 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 |

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 02-Jun-99

ANALYTICAL REPORT

| | | | |
|--------------------|------------------------------------|----------------------------|------------------------|
| Client: | PNM - Public Service Company of NM | Client Sample Info: | Grenier #4A South Wall |
| Work Order: | 9905072 | Client Sample ID: | 9905201115; 3pt. Comp |
| Lab ID: | 9905072-01A | Matrix: | SOIL |
| Project: | Grenier #4A Sep | Collection Date: | 5/20/99 11:15:00 AM |
| | | COC Record: | 7623 |

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|----------------|------|-------------|-----|---------------|
| DIESEL RANGE ORGANICS | | SW8015B | | Analyst: DC | | |
| T/R Hydrocarbons: C10-C28 | 2170 | 25 | | mg/Kg | 1 | 5/27/99 |
| AROMATIC VOLATILES BY GC/PID | | SW8021B | | Analyst: DM | | |
| Benzene | ND | 500 | | µg/Kg | 500 | 5/21/99 |
| Toluene | 7500 | 1000 | | µg/Kg | 500 | 5/21/99 |
| Ethylbenzene | 10000 | 500 | | µg/Kg | 500 | 5/21/99 |
| m,p-Xylene | 93000 | 1000 | | µg/Kg | 500 | 5/21/99 |
| o-Xylene | 26000 | 500 | | µg/Kg | 500 | 5/21/99 |

136500
136.5 ppm

| | | |
|--------------------|---|---|
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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Jun-99

| | | | |
|--------------------|------------------------------------|----------------------------|---------------------------|
| Client: | PNM - Public Service Company of NM | Client Sample Info: | Grenier #4A N, E, W Walls |
| Work Order: | 9905072 | Client Sample ID: | 9905201135; 3pt. Walls |
| Lab ID: | 9905072-02A | Matrix: | SOIL |
| Project: | Grenier #4A Sep | Collection Date: | 5/20/99 11:35:00 AM |
| | | COC Record: | 7623 |

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------|--------|----------------|------|-------|----|---------------|
| DIESEL RANGE ORGANICS | | SW8015B | | | | Analyst: DC |
| T/R Hydrocarbons: C10-C28 | ND | 25 | | mg/Kg | 1 | 5/27/99 |

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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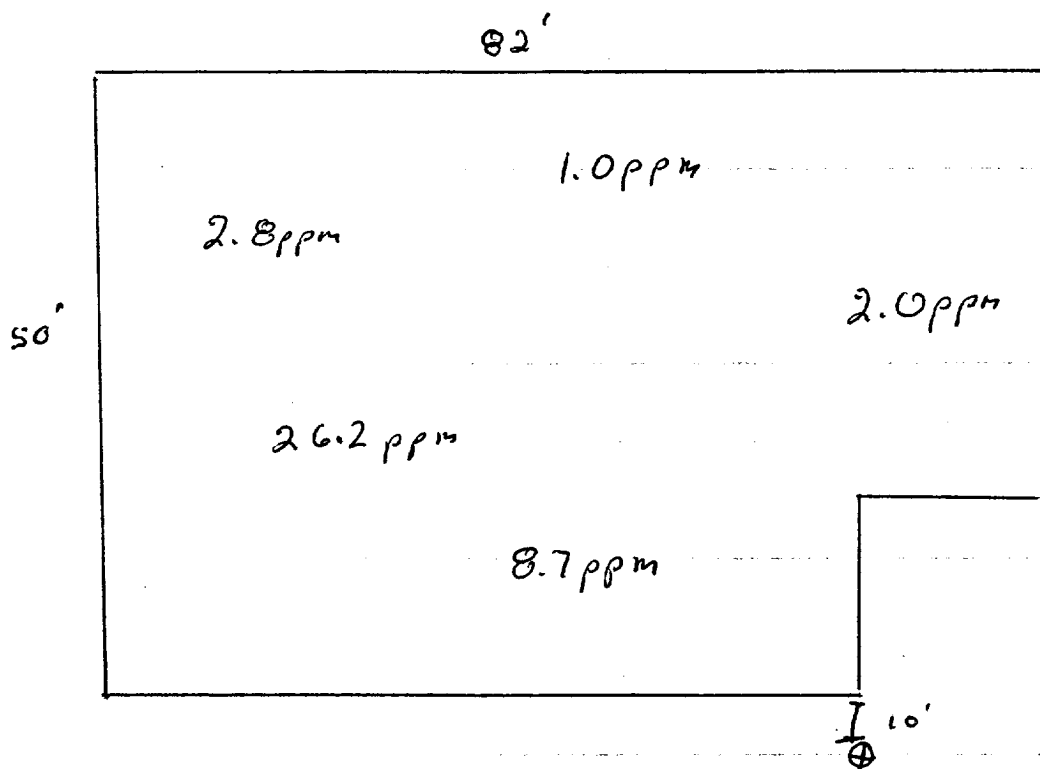
1 of 1

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Grenier #4A (SEP)
Sec-7 -T-31 R-11W ULM
Burlington

LAND form Drawing

App 167 cu yds



2" to 12" Depth
Headspace 12.9 ppm
Sample # 9907071037

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 22-Jul-99

CLIENT: PNM - Public Service Company of NM

Project: Dusenbery, Grenier & Horton LF

Lab Order: 9907013

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



'Kon

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Jul-99

| | | | |
|--------------------|------------------------------------|----------------------------|----------------------|
| Client: | PNM - Public Service Company of NM | Client Sample Info: | Grenier 4A Sep LF |
| Work Order: | 9907013 | Client Sample ID: | 9907071037; 5pt Comp |
| Lab ID: | 9907013-07A | Matrix: | SOIL |
| Project: | Dusenbery, Grenier & Horton LF | Collection Date: | 7/7/99 10:37:00 AM |
| | | COC Record: | 7032 |

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------|--------|----------------|------|-------|----|--------------------|
| DIESEL RANGE ORGANICS | | SW8015B | | | | Analyst: DC |
| T/R Hydrocarbons: C10-C28 | 120 | 25 | | mg/Kg | 1 | 7/19/99 |

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -