

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
ventra
Drlg.*

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: Grenier #19	
Location:	Unit <u>G</u> Sec <u>6</u> T <u>31 N</u> R <u>11 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>45</u> '
	Direction from reference: <u>30</u> Degrees ☐ East ☐ North ☐
	☒ West ☒ South
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>
Wellhead Protection Area:	Yes (20 points) No (0 points) <u>0</u>
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>
RANKING SCORE (TOTAL POINTS): <u>0</u>	

Grenier #19

Date Remediation Started: 06/09/1999 Date Completed: 06/09/1999

Remediation Method: Excavation X Approx. Cubic Yard 267

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 227

Other 40 cu yds overburden.

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 19' X 19' 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.

*** Vertical extent drilling conducted to 55'. Bottom hole results below OCD guidelines as indicated on attached lab analysis.

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 06/09/1999 Sample time 8:30:00 AM

Sample Results

Benzene (ppm) 21 ***

Total BTEX (ppm) 614 ***

Field headspace (ppm) _____

TPH (ppm) 2140.00 Method 8015B

Vertical Extent (ft) 55' 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 Maureen Gannon

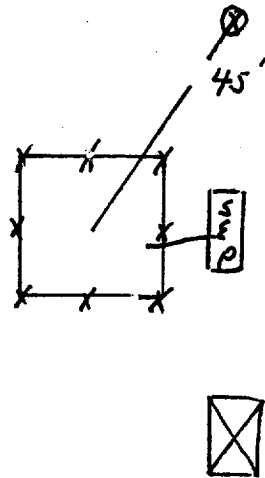
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Grenier #19
Burlington
Sec. 6, 31N, 11W, G

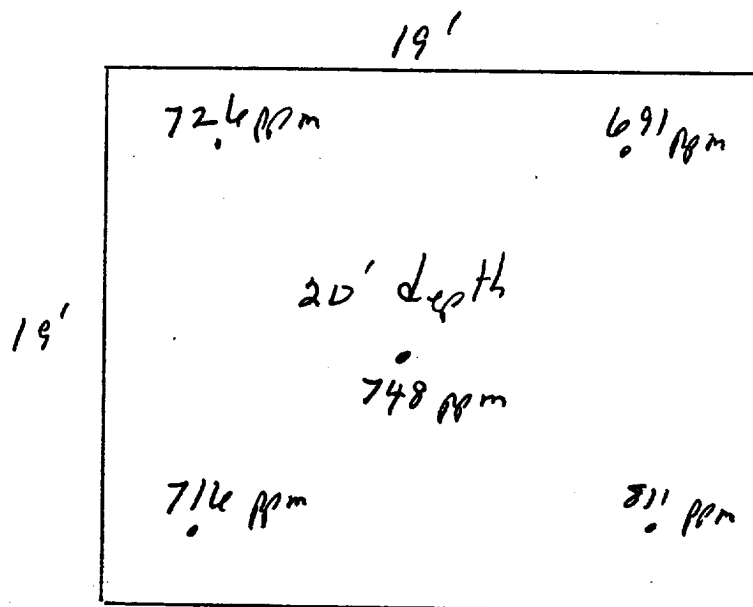
6-9-99

↑
N

Site diagram:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 23-Jun-99

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation
Lab Order: 9906039

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-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Grenier #19
Work Order:	9906039	Client Sample ID:	9906090830; 20ft. - 5 pt. composite
Lab ID:	9906039-01A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/9/99 8:30:00 AM
		COC Record:	7607

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	2140	25		mg/Kg	1	6/18/99
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DC
Benzene	21000	2500		µg/Kg	2500	6/18/99
Toluene	200000	5000		µg/Kg	2500	6/18/99
Ethylbenzene	34000	2500		µg/Kg	2500	6/18/99
m,p-Xylene	290000	5000		µg/Kg	2500	6/18/99
o-Xylene	69000	2500		µg/Kg	2500	6/18/99

614000
614 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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P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Grenier #19
Work Order:	9906039	Client Sample ID:	9906090835; 15ft.
Lab ID:	9906039-02A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/9/99 8:35:00 AM
		COC Record:	7607

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/18/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	ND	1		µg/Kg	1	6/11/99
Toluene	ND	2		µg/Kg	1	6/11/99
Ethylbenzene	1.1	1		µg/Kg	1	6/11/99
m,p-Xylene	2.8	2		µg/Kg	1	6/11/99
o-Xylene	4.1	1		µg/Kg	1	6/11/99

8
0.008 ppm

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

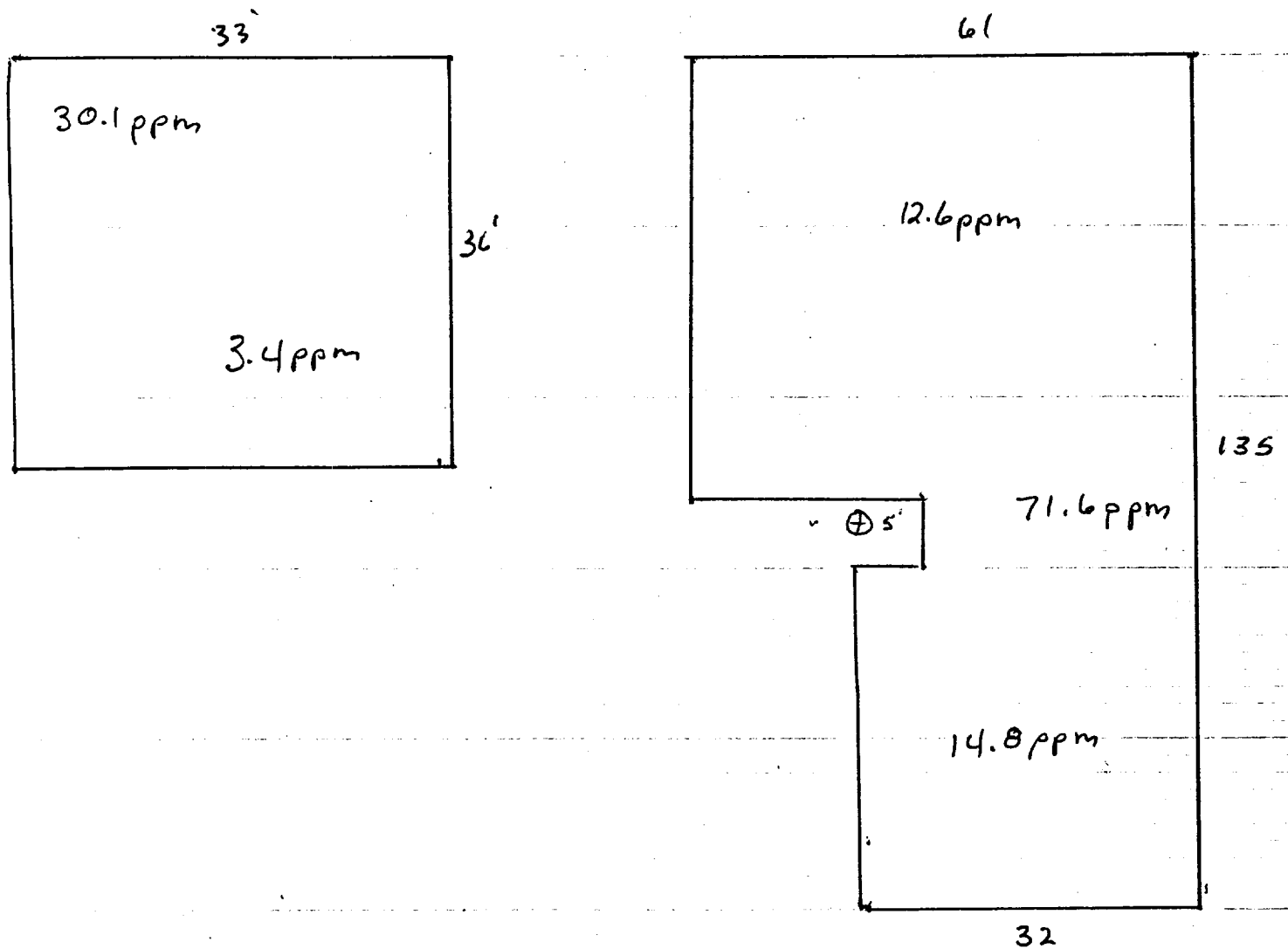
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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Grenier #19
Sec-6 T-31N R-11W 42-
Burlington

Land farm Drawing
App 227 cu.yds



2" to 12" Depth
Headspace 37.3 ppm
Sample # 9907141037

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Jul-99

CLIENT: PNM - Public Service Company of NM
Project: Talaf  ro 3, 4 & 7 and Grenier 19 LF
Lab Order: 9907037

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: 30-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Grenier #19 LF
Work Order:	9907037	Client Sample ID:	9907141031; 5pt Comp
Lab ID:	9907037-04A	Matrix:	SOIL
Project:	Talaferro 3, 4 & 7 and Grenier 19 LF	Collection Date:	7/14/99 10:31:00 AM
		COC Record:	7737

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/29/99

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

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Nov-99

CLIENT: PNM - Public Service Company of NM
Project: Grenier 19 (Vertical Extent)
Lab Order: 9911025

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: 30-Nov-99

Client: PNM - Public Service Company of NM
Work Order: 9911025
Lab ID: 9911025-01A **Matrix:** SOIL
Project: Grenier 19 (Vertical Extent)

Client Sample Info: Grenier 19 (Vertical Extent)
Client Sample ID: 9911151010; 55ft Rock
Collection Date: 11/15/99 10:10:00 AM
COC Record: 7794

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C10-C28	30	25		mg/Kg	1	11/29/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DM
Benzene	30	25		µg/Kg	25	11/22/99
Toluene	340	50		µg/Kg	25	11/22/99
Ethylbenzene	140	25		µg/Kg	25	11/22/99
m,p-Xylene	1400	50		µg/Kg	25	11/22/99
o-Xylene	240	25		µg/Kg	25	11/22/99

2150
2.150 ppm

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

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # 1

Well # 1

Page 1 of 2

Project Number: _____ Phase: _____

Project Name: PNM Vertical Extent

Project Location: Grease #19

8:45 Am

10:30

Elevation: _____

Borehole Location: _____

GWL Depth: _____

Drilled By: K. Padilla

Well Logged By: S. Pope - C. Irby

Date Started: 11-15-99

Date Completed: 11-15-99

Drilling Method: 4 1/4 ID HSA

Air Monitoring Method: PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recover (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				NO sample TO 20'						PID Results SS = Split Spoon Headspace (ppm) HS = Heated Head- space (ppm)
20	1	6"		Dark Brn/Blk silty clay with very thin red green sand lenses						10 Blows SS = 1539 ppm HS = 2999
25	2	12"		AAB						10 Blows SS = 965 HS = 2583
30	3	12"		AAB Grading Down into Tan Fine-med Grn Unconsolidated sand						SS = 1231 HS = 2107
35				PRK Brn silty clay with Tan med green thin sand lenses. (Piece of Burnt Wood?)						SS = 1200 HS = 2999
40										

Comments: _____

Geologist Signature

Cecil

RECORD OF SUBSURFACE LOCATION

PHILIP SERVICES CORP.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # 1

Well # 1

Page 2 of 2

Project Number: _____ Phase: _____
Project Name: PPM Vert. EXTENT
Project Location: Greener #19

Elevation: _____

Borehole Location: _____

GWL Depth: _____

Drilled By: K. Padilla

Well Logged By: S. Pope C.F.B.

Date Started: 11-15-99

Date Completed: 11-15-99

Drilling Method: 4 1/4 ID HSA

Air Monitoring Method: PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recover (Inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Uthology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
40				Massive STIFF Gray & Red mottled clay with some fine-med gr. sand Some calc. chert.						Blows = 20 SS = 291 HS = 650
45				Massive gray sandy clay with 1/2 qt. sand Hard Dry STIFF-Fragile.						Blows = 30 SS = 107 HS = 22.9
50				Gray Dry Brittle Clay						Blows = 30 SS = 732 HS = 123
55				Gray Green VFG SS consolidated Rock						SS = 1258 (on top of sandstone) HS = 118
20										
25										
30										
35										
40										

Comments: _____

Geologist Signature

Cecil G.