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*Kennedy & Frost*  
DEPUTY OIL & GAS INSPECTOR

District I  
P.O. Box 1980, Hobbs, NM

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

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

FEB 6 8 1998

OIL CONSERVATION DIVISION

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

*Approved*

**PIT REMEDIATION AND CLOSURE REPORT**

**RECEIVED**  
NOV 12 1998  
**OIL CON. DIV.**  
**DIST. 3**

<b>Operator:</b> PNM Gas Services ( Burlington )		<b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401			
<b>Facility or Well Name:</b> Dalsant #1A			
<b>Location:</b>	Unit <u>I</u>	Sec <u>24</u>	T <u>32 N</u> R <u>12 W</u> County <u>San Juan</u>
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other <u>No</u>
<b>Pit Location:</b> Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '			
(Attach diagram)	<b>Reference:</b> wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/>		
<b>Footage from reference:</b> <u>46'</u>			
<b>Direction from reference:</b> <u>30</u> Degrees <input checked="" type="checkbox"/> East <input type="checkbox"/> West of North <input checked="" type="checkbox"/> South <input type="checkbox"/>			
<b>Depth to Ground Water:</b> (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>			
<b>Wellhead Protection Area:</b> (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>			
<b>Distance to Surface Water:</b> (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>			
<b>RANKING SCORE (TOTAL POINTS) :</b>			<u>0</u>

Dalsant #1A

Date Remediation Started: 5/14/98 Date Completed: 5/14/98

Remediation Method: Excavation X Approx. Cubic Yard 32

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds) 32

Other \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_

(i.e., landfarmed onsite, name and location of offsite facility)

**RECEIVED**  
NOV 12 1998

Backfill Material Location: \_\_\_\_\_  
General Description of Remedial Action: **OIL CON. DIV. DIST. 3**

Excavated contaminated soil to a pit size of 12' X 12' x 6' 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 6'. See attached risk analysis and lab analysis form.

Ground Water Encountered: No ☒ Yes ☐ Depth \_\_\_\_\_

**Final Pit Closure Sampling:**

Sample Location Bottom of excavation.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 6'

Sample date 5/14/98 Sample time 11:00:00 AM

**Sample Results**

Benzene (ppm) 1.5000

Total BTEX (ppm) 88.7000 \*\*\*

Field headspace (ppm) \_\_\_\_\_

TPH (ppm) 7500.00 Method 8015

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 29, 1998**

SIGNATURE

*Maureen Gannon*

PRINTED NAME **Maureen Gannon**  
AND TITLE **Project Manager**



**Environmental Services**

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Well Name:	Dalsant #1A
Well Legals:	Unit I, Sec 24, T32N, R12W
Pit Type:	Dehydrator
Horizontal Distance to Surface Water:	Less than 200 feet
Groundwater Depth:	Greater than 100 feet

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**RISK ANALYSIS**

PNM requests closure of their former pit on the Dalsant #1A well site using a limited risk analysis based on the following conditions:

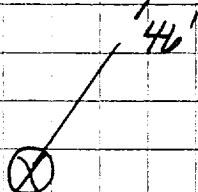
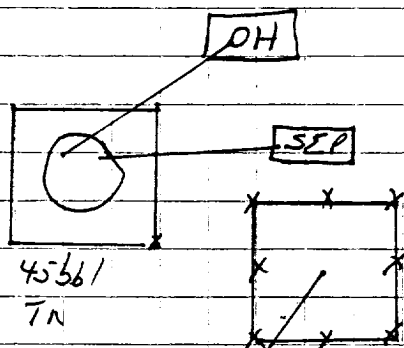
1. Groundwater is estimated to be at a depth of 110 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" river. (Reference: Adobe Downs, NM topographic map.)
2. PNM excavated 32 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.
3. Sandstone rock was encountered at 6 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 Dalsant #1A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

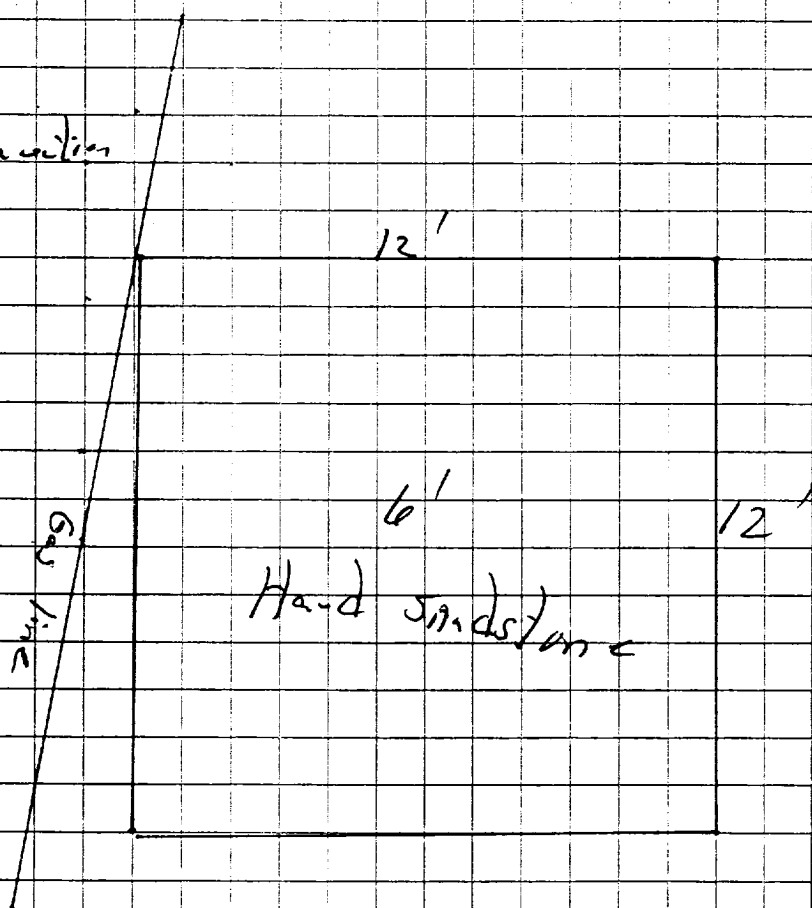
Dalsant #1A  
Burlington  
Sec 24, 32N, 12W, I

5/14/98

start of excavation:



End of excavation



OFF: (505) 325-5667

**ON SITE**

LAB: (505) 325-1556

**TECHNOLOGIES, LTD.**

**On Site Technologies, LTD.**

**Date:** 26-May-98

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**CLIENT:** PNM - Public Service Company of NM

**Project:** Dalsant #1A

**Lab Order:** 9805046

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**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: 26-May-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Dalsant #1A
<b>Work Order:</b>	9805046	<b>Client Sample ID:</b>	9805141100; Bottom @ 6ft.
<b>Lab ID:</b>	9805046-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Dalsant #1A	<b>Collection Date:</b>	5/14/98 11:00:00 AM
		<b>COC Record:</b>	7217

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	7500	50		mg/Kg	2	5/22/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: HR
Benzene	1500	500		µg/Kg	500	5/18/98
Toluene	13000	1000		µg/Kg	500	5/18/98
Ethylbenzene	6200	500		µg/Kg	500	5/18/98
m,p-Xylene	57000	1000		µg/Kg	500	5/18/98
o-Xylene	11000	500		µg/Kg	500	5/18/98

88,700  
88.7 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

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 26-May-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Dalsant #1A
<b>Work Order:</b>	9805046	<b>Client Sample ID:</b>	9805141115; Walls @ 3 ft.
<b>Lab ID:</b>	9805046-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Dalsant #1A	<b>Collection Date:</b>	5/14/98 11:15:00 AM
		<b>COC Record:</b>	7217

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	12000	120		mg/Kg	5	5/22/98
<b>BTEX</b>		<b>SW8020A</b>				Analyst: HR
Benzene	6000	500		µg/Kg	500	5/19/98
Toluene	51000	1000		µg/Kg	500	5/19/98
Ethylbenzene	8800	500		µg/Kg	500	5/19/98
m,p-Xylene	69000	1000		µg/Kg	500	5/19/98
o-Xylene	17000	500		µg/Kg	500	5/19/98

151,800  
1518 ppm

<b>Qualifiers:</b>	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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNICAL SERVICES DIVISION

Nalsant #1A

7/21/98

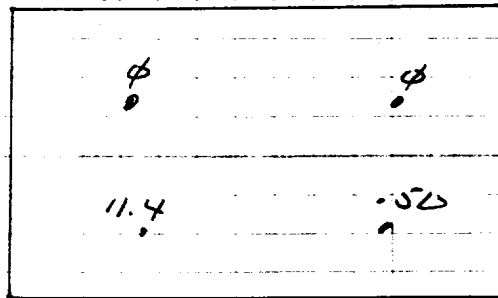
BR

Sec. 24, 32N, 12W, I

Land Farm: Nalsant #1

BR

Sec. 24, 32N, 12W, A



⊗

32 yards

2"-12" depth

9807211030

soil vapor head space = 7.0 ppm



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 28-Jul-98

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**CLIENT:** PNM - Public Service Company of NM

**Project:** PNM Pit Remediation

**Lab Order:** 9807059

**CASE NARRATIVE**

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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-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Dalsant #1A LF
<b>Work Order:</b>	9807059	<b>Client Sample ID:</b>	9807211030
<b>Lab ID:</b>	9807059-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	7/21/98 10:30:00 AM
		<b>COC Record:</b>	7326

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: HR
T/R Hydrocarbons: C10-C28	4200	25		mg/Kg	1	7/24/98

**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