District I P.O. Box 1980, Hobbs, NM State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

P.O. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

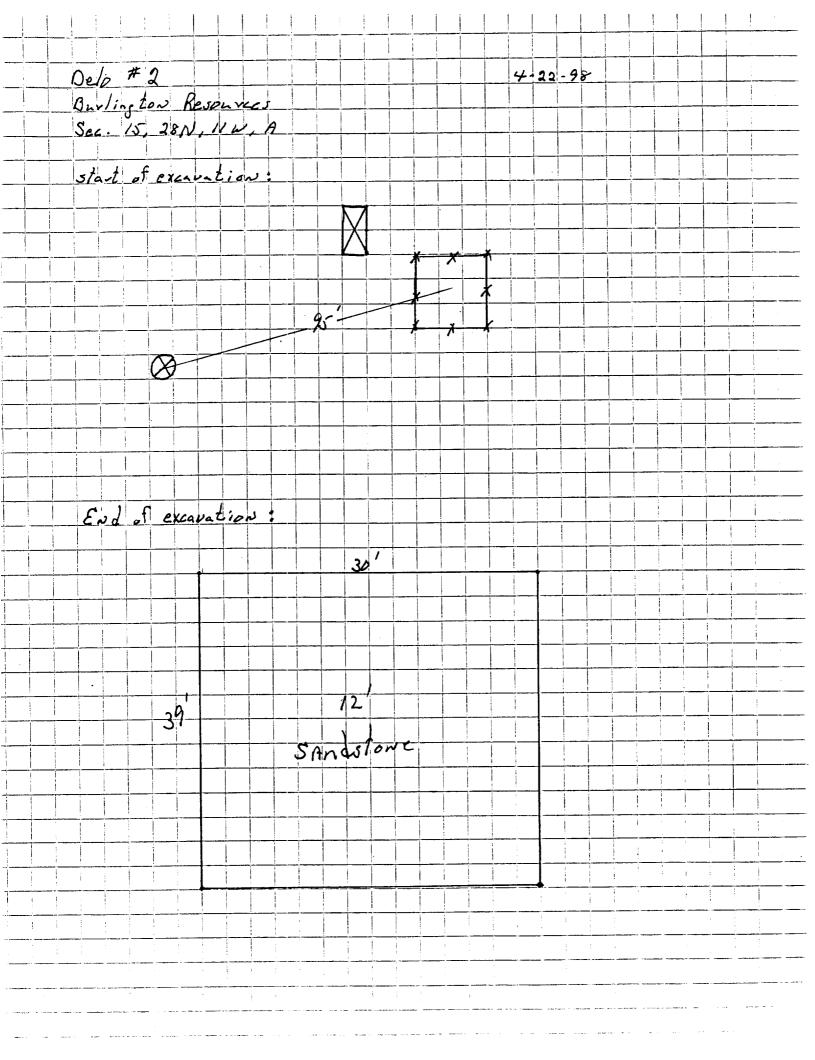


DIST. 3

PIT REMEDIATION AND CLOSURE REPORT CON. DIV.

Operator: PNM Gas Services (Burlington) Telephone: 324-3764 Address: 603 W. Elm Street Farmington, NM 87401 Facility or Well Name: Delo #2 Location: County 15 28 N Sec R 11 W San Juan Pit Type: Separator Dehydrator Other No equip. - pit abandoned. Land Type: **BLM** State Fee Other Pit dimensions: Pit Location: length width 20 ' depth 20 ' 3 (Attach diagram) Reference: wellhead other Footage from reference: 95' Direction from reference: Degrees East North 🗸 70 of West South Less than 50 feet **Depth to Ground Water:** (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet 20 (0 points) (Vertical distance from contaminants to seasonal high water elevation of ground Wellhead Protection Area: Yes (20 points) 0 No (0 points) (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources) Distance to Surface Water: Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) 0 Greater than 1,000 feet (0 points) (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches **RANKING SCORE** (TOTAL POINTS): 20

Deio #2		
Date Remediation Started:	4/22/98	Date Completed: 4/23/98
Remediation Method:	Excavation X	Approx. Cubic Yard 507
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds)
sections)	Other	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X	Offsite
Backfill Material Location:		
General Description of Rem	nedial Action:	
Excavated contaminated soil	to a pit size of 38' X 30' X 12' and land	farmed soil onsite within a bermed area at a depth of 6" to
	t 12' depth. See attached risk analysis f	
Ground Water Encountered	d: No <u>V</u> Yo	es Depth
Final Pit Closure Sampling:	Sample Location Bottom of exca	vation.
(if multiple samples, attach sample result and diagram of	Sample depth 12'	
sample locations and depths.)	Sample date 4/22/98	Sample time 11:25:00 AM
	Sample Results	
	Benzene (ppm) 0.8	3900
	Total BTEX (ppm)	40.6300
	Field headspace (ppm)	······································
	TPH (ppm) 240.00 ***	Method 8015A
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 THA KNOWLEDGE AND MY E		RUE AND COMPLETE TO THE BEST OF MY
DATE April 27, 1999 SIGNATURE <u>M</u>	rungann	PRINTED NAME Maureen Gannon AND TITLE Project Manager



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Apr-98

Client:

PNM - Public Service Company of NM

Work Order:

9804034

Lab ID:

9804034-01A

Matrix: SOIL

Project: Delo #2

Client Sample Info: Delo #2

Client Sample ID: 9804221125; Bottom @ 12'

Collection Date: 4/22/98 11:25:00 AM

COC Record: 7115

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	. S	W8015			Analyst: HR
T/R Hydrocarbons: C10-C28	240	25	mg/Kg	1	4/27/98
BTEX	S	W8020A			Analyst: DC
Benzene	890	250	μ g /Kg	250	4/24/98
Toluene	840	500	μ g /Kg	250	4/24/98
Ethylbenzene	4400	250	μ g /Kg	250	4/24/98
m,p-Xylene	31000	500	μ g /Kg	250	4/24/98
o-Xylene	3500	250	μ g /Kg	250	4/24/98
Surr: Fluorobenzene	96.3	70-130	%REC	250	4/24/98
Surr: 1,4-Difluorobenzene	81.7	70-130	%REC	250	4/24/98
Surr: 4-Bromochlorobenzene	94.1	70-130	%REC	250	4/24/98

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

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 29-Apr-98

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9804034

9804034-02A

Matrix: SOIL

Lab ID: Project:

Delo #2

Client Sample Info: Delo #2

Client Sample ID: 9804221420; Walls @ 10'

Collection Date: 4/22/98 2:20:00 PM

COC Record: 7115

Result	PQL	Qual	Units	DF	Date Analyzed
S	W8015				Analyst: HR
20	25	JВ	mg/Kg	1	4/27/98
S	W8020A				Analyst: DC
ND	1		µg/Kg	1	4/24/98
2	2		μg/Kg	1	4/24/98
1.1	1		μ g /Kg	1	4/24/98
8.3	2		μ g /Kg	1	4/24/98
ND	1		μ g /Kg	1	4/24/98
104.9	70-130		%REC	1	4/24/98
105.8	70-130		%REC	1	4/24/98
110.6	70-130		%REC	1	4/24/98
7	Alota	13	1- X31	1.4	2.00
	20 SI ND 2 1.1 8.3 ND 104.9 105.8	SW8015 20 25 SW8020A ND 1 2 2 1.1 1 8.3 2 ND 1 104.9 105.8 110.6 70-130 70-130	SW8015 20 25 JB SW8020A ND 1 2 2 1.1 1 8.3 2 ND 1 104.9 70-130 105.8 70-130	SW8015 20 25 JB mg/Kg SW8020A ND 1 µg/Kg 2 2 µg/Kg 1.1 1 µg/Kg 8.3 2 µg/Kg ND 1 µg/Kg 104.9 70-130 %REC 110.6 70-130 %REC	SW8015 20 25 JB mg/Kg 1 SW8020A ND 1 µg/Kg 1 2 2 µg/Kg 1 1.1 1 µg/Kg 1 8.3 2 µg/Kg 1 ND 1 µg/Kg 1 104.9 70-130 %REC 1 105.8 70-130 %REC 1 110.6 70-130 %REC 1

Qualifiers:

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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

rogate

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LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 08-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

Landfarm Composites

Lab Order:

9806013

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



TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806013

9806013-04A

Matrix: SOIL

Lab ID: Project:

Landfarm Composites

Client Sample Info: Delo #2

Client Sample ID: 9806040930: Landfarm

Collection Date: 6/4/98 9:30:00 AM

COC Record: 5224

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015 →			Analyst: HR
T/R Hydrocarbons: C10-C28	40	25	mg/Kg	1	6/5/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

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E - Value above quantitation range

Surr: - Surrogate

1 of 1



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Delo #2
Unit A, Sec 15, T28N, R11W
Abandoned, no equipment
Greater than 1,000 feet
Less than 50 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Delo #2 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 20 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Bloomfield, NM series 7.5 minute topographic map.)
- 2. PNM excavated 507 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 12 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 Delo #2 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.