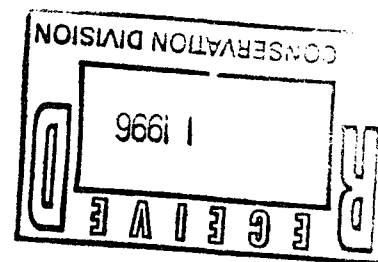


3R - 343

REPORTS

DATE:

Aug. 1, 1996



August 1, 1996

Mr. William Olson
Hydrogeologist
Oil Conservation Division
2040 So. Pacheco
Santa Fe, New Mexico 87505

RE: SAN JUAN BASIN 2ND QUARTER 1996 GROUNDWATER REPORT

Dear Bill:

PNM Gas Services, PNMGS, (formerly Gas Company of New Mexico) is pleased to submit the 2nd Quarter 1996 Groundwater Report on Unlined Surface Impoundments in the San Juan Basin. Pursuant to PNM's Groundwater Management Program for Unlined Surface Impoundment Closures, the report details the ongoing investigation/remedial activities at unlined surface impoundments having groundwater contamination as identified by PNM. A list of groundwater sites is provided below.

Abrams Gas/Com L1
Cozzens B1
Cozzens B1E
Florance 44
Honolulu Loop-Line Drip
Kaufmann 1
McCoy A1A
~~Templeton 1E~~

If you have any questions regarding the contents of the report, please contact me at (505) 241-2974.

Sincerely,
PNM Environmental Services Department

Maureen Gannon

Maureen Gannon
Project Manager

MDG/GASPITS/OLSON01.LTR

Attachment

cc: Denver Bearden, PNMGS
Denny Foust, OCD-Aztec Office
Leigh Gooding, WFS

**Public Service Company of New Mexico
2nd Quarter 1996 Groundwater Report
August 1, 1996**

Prepared for:

**New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505**

Prepared by:

**Public Service Company of New Mexico
Environmental Services Department
Alvarado Square - MS 0408
Albuquerque, New Mexico 87158**

PNMGS Well Site: Templeton #1E

Site Summary Report

Copies: WFS(1)
Operator (1)
NMOCD District Office (1)
NMOCD Santa Fe (1)

Quarter: 2 Year: 96

Operator: Snyder
Sec: 27 Twn: 31 Rng: 13 Unit: B
Canyon: La Plata

Vulnerable Class: Original
OCD Ranking: 30
Lead Agency: NMOCD

Topo Map: Figure 1
Well Completion Diagram: Figure 2
Groundwater Contour Map: Figure 3
Hydrograph: Figure 4
Summary of Groundwater Sampling Results: Table 1
Site Map with Analysis: Figure 5
Analytical Results: attached

Activities for Quarter:

PNM installed five monitoring wells and conducted sampling at the Templeton 1E during the second quarter of 1996. Figure 1 is a topographic map identifying the location of the site. A typical well completion diagram is provided as figure 2.

Well installation and sampling were completed on June 19, 1996. PNM conducted sampling in strict compliance with EPA protocol and delivered samples to OnSite Technologies, Farmington, New Mexico. The samples were analyzed for the following:

- benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020.
- polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8100
- major cations/anions using various EPA methods
- WQCC metals (As, Ba, Cd, Cr, Pb, Se, Ag, and Hg using inductively coupled plasma (ICP) for heavy metals and atomic absorption spectroscopy (AAS for Hg and Se).

Conclusions and Recommendations:

Figure 3 provides a groundwater contour map of the site. Groundwater flows in a southerly direction beneath the site. Figure 4 is a hydrograph of the site- water level versus time. Water levels at the site have dropped approximately 0.5 feet between June and July (when PNM took a round of water level measurements at the site during surveying activities).

Table 1 provides a summary of the analytical results collected at the site in June. MW-3 is the only well at the site showing groundwater contamination. BTEX is present in the well but at concentrations below WQCC standards. Figure 5 is a site map designating BTEX concentrations at each well. Naphthalene was detected in MW-3 at 19 ppb, below the WQCC standard of 30 ppb. Of the metals analyzed, barium and lead concentrations in MW-3 are slightly above WQCC standards.

Further Action:

PNM will continue to perform quarterly sampling at the Templeton 1E. Concerning the elevated barium and lead concentrations, we believe these levels may be indicative of background concentrations. PNM will sample again for these two metals in MW-3 during the next quarter of sampling.

Public Service Company of New Mexico - Gas Services

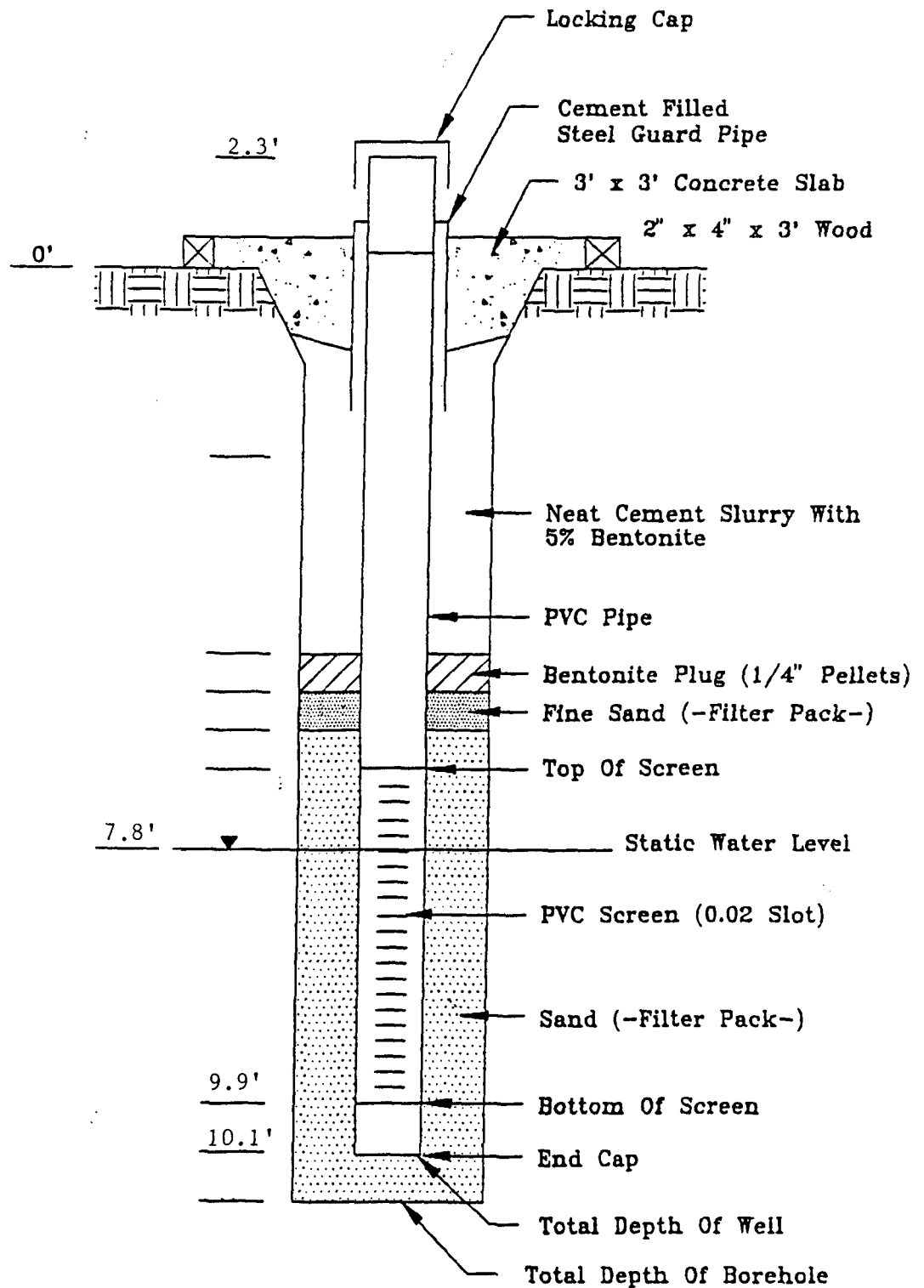
Environmental Services Division - Alvarado Square, MS-0408
Albuquerque, NM 87158

Contact: Maureen Gannon

Telephone: (505) 241-2974



Figure 1. La Plata Quadrangle



CLIENT: PNM	
DATE:	REV. NO.: 0
AUTHOR: M.D.G.	DRAWN BY: M.P.
CK'D BY: M.D.G.	FILE: DWG

Figure 2
MONITOR WELL DESIGN
TEMPLETON 1E

Figure 3. Templeton 1E Groundwater Contour Map (June 1996)

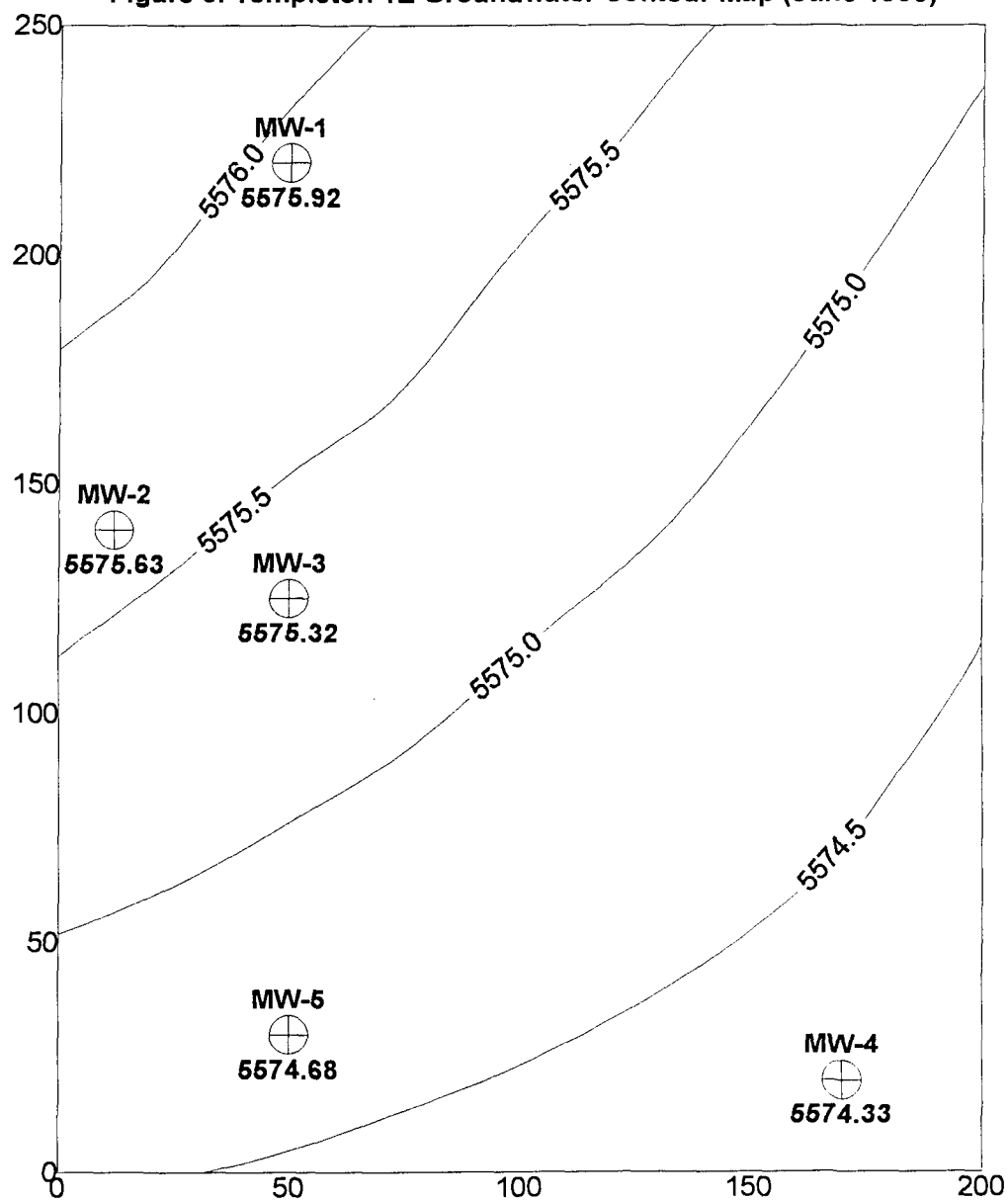


Figure 4. Templeton 1E Hydrograph
(water level vs. time)

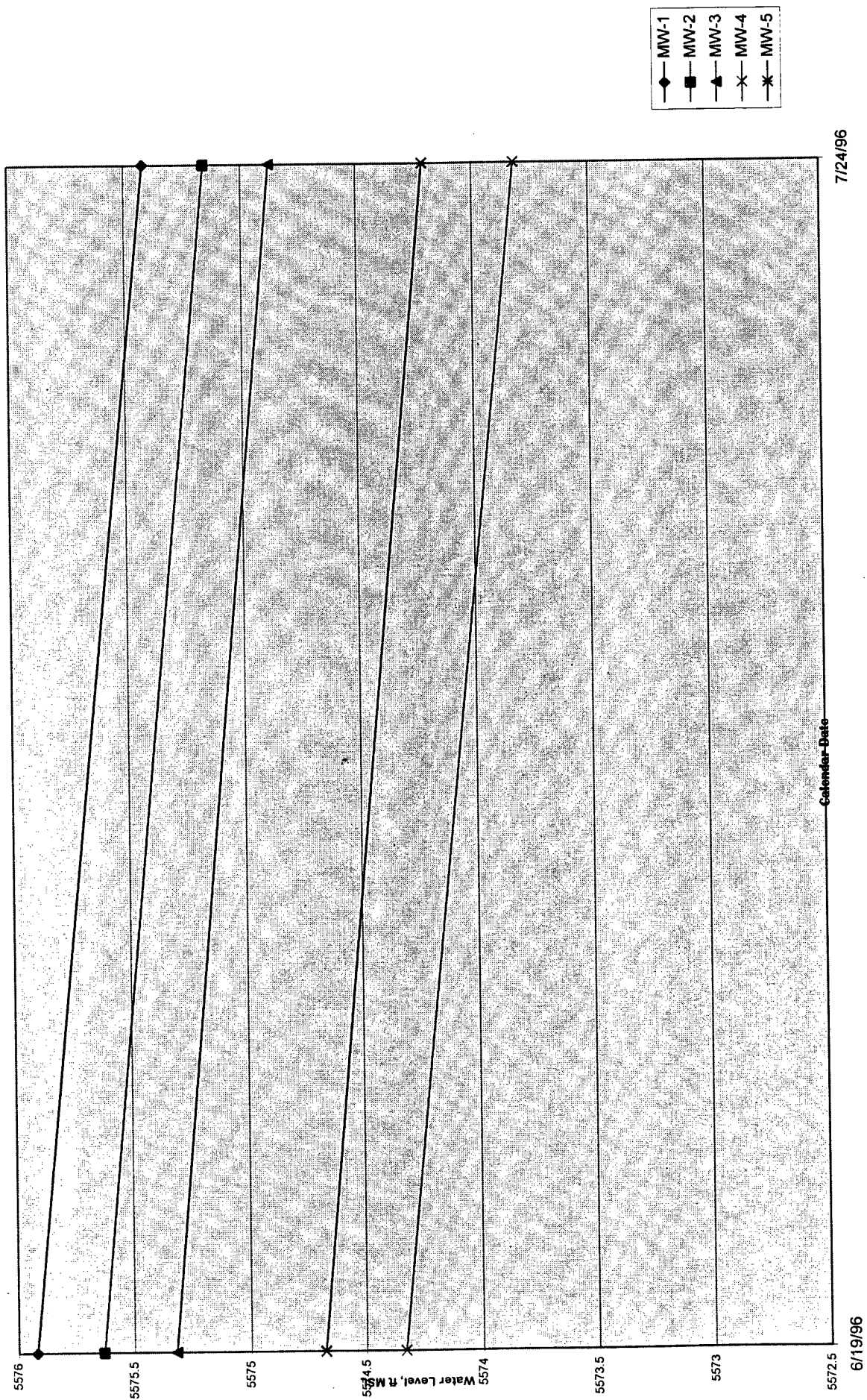
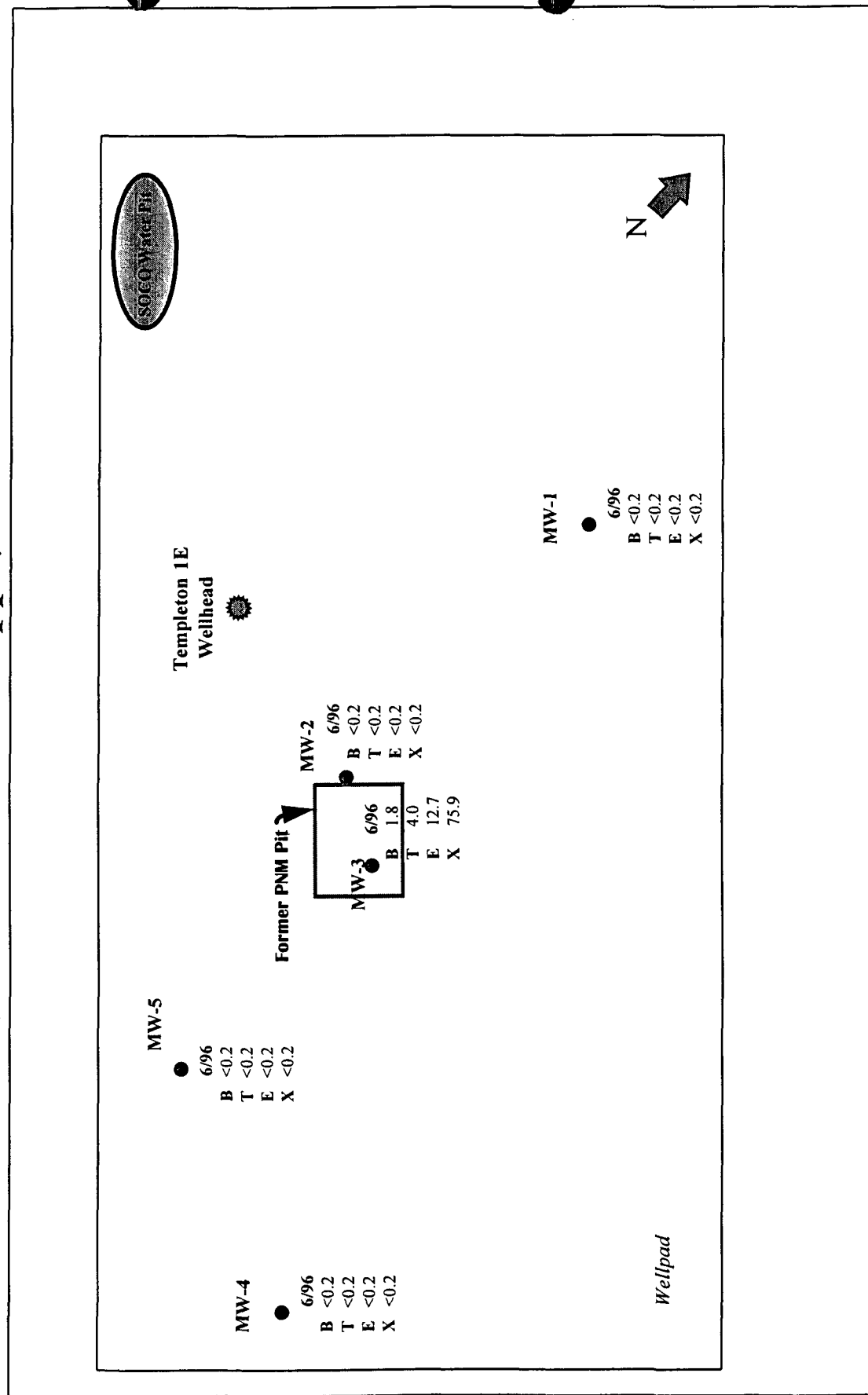


Table 1. TEMPLETON 1E GROUNDWATER SAMPLING RESULTS, mg/l (June 1996)

	WQCC Stds.	MW-1	MW-2	MW-3	MW-4	MW-5	MW-5(DUP)
B	0.01	<0.0002	<0.0002	0.0018	<0.0002	<0.0002	<0.0002
T	0.75	<0.0002	<0.0002	0.0040	<0.0002	<0.0002	<0.0002
E	0.75	<0.0002	<0.0002	0.0127	<0.0002	<0.0002	<0.0002
X	0.62	<0.0002	<0.0002	0.0757	<0.0002	<0.0002	<0.0002
PAHs	0.3	NS	NS	0.019	NS	NS	NS
As	0.1	NS	NS	0.1	NS	NS	NS
Ba	1	NS	NS	1.25	NS	NS	NS
Cd	0.01	NS	NS	<0.002	NS	NS	NS
Cr	0.05	NS	NS	0.02	NS	NS	NS
Pb	0.05	NS	NS	0.16	NS	NS	NS
Se	0.05	NS	NS	<0.02	NS	NS	NS
Ag	0.05	NS	NS	<0.01	NS	NS	NS
Hg	0.002	NS	NS	<0.0004	NS	NS	NS
Cu	NA	0.08	0.08	0.06	0.06	0.09	NS
Fe	NA	14.20	22.80	16.40	13.60	35.90	NS
Mn	NA	4.84	5.93	6.44	5.67	8.04	NS
Zn	NA	0.11	0.12	0.09	0.06	0.33	NS
Cl	NA	179.0	196.0	159.0	281.0	215.0	NS
F	NA	0.68	0.80	0.54	0.68	0.64	NS
NO3	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NS
SO4	NA	3136	3285	2760	3427	3391	NS
CN	NA	<0.10	<0.02	<0.04	<0.04	<0.04	NS
TDS	NA	5320	5601	4738	5657	5865	NS

NA: Not Applicable
 BDL: Below Detection Limit
 NS: Not Sampled
 Bold: Concentration Above WQCC Standard

**Figure 5. Templeton 1E Well Site
Well Locations & Analytical Results
(Concentrations in ppb)**



OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevardo Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: 25-Jun-96
COC No.: 4758
Sample No. 11264
Job No. 2-1000

Project Name: **PNM Gas Services - Templeton 1E**
Project Location: **9606191430; MW-1**
Sampled by: MS
Analyzed by: DC
Sample Matrix: *Water*

Date: 19-Jun-96 Time: 14:30
Date: 24-Jun-96

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 6/25/96

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BELEAGUING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevardo Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: 25-Jun-96
COC No.: 4758
Sample No. 11265
Job No. 2-1000

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9606191450; MW-2*
Sampled by: MS
Analyzed by: DC
Sample Matrix: *Water*

Date: 19-Jun-96 Time: 14:50
Date: 24-Jun-96

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 6/25/96

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- TECHNOLOGY SERVING INDUSTRY AND THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevarado Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: 25-Jun-96
COC No.: 4758
Sample No. 11266
Job No. 2-1000

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9606191510; MW-3*
Sampled by: MS
Analyzed by: DC
Sample Matrix: *Water*

Date: 19-Jun-96 Time: 15:10
Date: 24-Jun-96

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	1.8	ug/L	0.2	ug/L
<i>Toluene</i>	4.0	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	12.7	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	75.7	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	94.3	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jack*
Date: *6/25/96*

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- FARMINGTON BEARING INDUSTRIES, LTD. -

OFF: (505) 325-8786

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TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevarado Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: 25-Jun-96
COC No.: 4758
Sample No. 11267
Job No. 2-1000

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9606191530; MW-4*
Sampled by: MS
Analyzed by: DC
Sample Matrix: *Water*

Date: 19-Jun-96 Time: 15:40
Date: 24-Jun-96

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Ja 4*
Date: *6/25/96*

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevarado Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: *25-Jun-96*
COC No.: *4758*
Sample No. *11268*
Job No. *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9606191550; MW-5*
Sampled by: *MS*
Analyzed by: *DC*
Sample Matrix: *Water*

Date: *19-Jun-96* Time: *15:50*
Date: *24-Jun-96*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i><0.2</i>	<i>ug/L</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DC*
Date: *6/25/96*

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevarado Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: 25-Jun-96
COC No.: 4758
Sample No. 11269
Job No. 2-1000

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9606191605; MW-6*
Sampled by: MS
Analyzed by: DC
Sample Matrix: *Water*

Date: 19-Jun-96 Time: 16:05
Date: 24-Jun-96

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JaK*
Date: 6/25/96

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OFF: (505) 325-8786



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 24-Jun-96

Internal QC No.: 0444-STD

Surrogate QC No.: 0445-STD

Reference Standard QC No.: 0355-STD

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	17.4	13	15%
Toluene	ppb	20.0	19.1	5	15%
Ethylbenzene	ppb	20.0	18.6	7	15%
m,p-Xylene	ppb	40.0	36.2	10	15%
o-Xylene	ppb	20.0	18.9	5	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	98	98	(39-150)	0	20%
Toluene	97	97	(46-148)	0	20%
Ethylbenzene	95	96	(32-160)	1	20%
m,p-Xylene	91	92	(35-145)	1	20%
o-Xylene	90	91	(35-145)	0	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)	
11264-4758	100	
11265-4758	101	
11266-4758	97	
11267-4758	101	
11268-4758	101	
11269-4758	101	

S1: Fluorobenzene

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

POLYNUCLEAR AROMATIC HYDROCARBONS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevarado Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: *12-Jul-96*
COC No.: *4758*
Sample No. *11266*
Job No. *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9606191510; MW-3*
Sampled by: *MS*
Analyzed by: *ILFC*
Sample Matrix: *Water*

Date: *19-Jun-96* Time: *15:10*
Date: *9-Jul-96*

Laboratory Analysis

<i>Component</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Acenaphthene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Acenaphthylene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Benzo (a) anthracene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Benzo (a) pyrene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Pyrene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Benzo (b) fluoranthene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Benzo (ghi) perylene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Benzo (k) flouranthene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Chrysene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Dibenzo (a,h) anthracene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Flouranthene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Fluorene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Indeno (1,2,3-cd) pyrene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Naphthalene</i>	<i>19</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Phenanthrene</i>	<i>< 1</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>

Method - SW-846 EPA Method 8100 - Polynuclear Aromatic Hydrocarbons

Approved by: *DC 4*
Date: *7/12/96*

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

EPA Method 8100

Date: 9-Jul-96

Method Blank

Calibration Check

Component	Result	Unit of Measure		% Diff	Limit
Acenaphthene	< 1	ug/L		13%	25%
Acenaphthylene	< 1	ug/L		4%	25%
Benzo (a) anthracene	< 1	ug/L		5%	25%
Benzo (a) pyrene	< 1	ug/L		19%	25%
Pyrene	< 1	ug/L		10%	25%
Benzo (b) fluoranthene	< 1	ug/L		0%	25%
Benzo (ghi) perylene	< 1	ug/L		7%	25%
Benzo (k) flouranthene	< 1	ug/L		6%	25%
Chrysene	< 1	ug/L		10%	25%
Dibenzo (a,h) anthrace	< 1	ug/L		12%	25%
Flouranthene	< 1	ug/L		7%	25%
Fluorene	< 1	ug/L		4%	25%
Indeno (1,2,3-cd) pyre	< 1	ug/L		8%	25%
Naphthalene	< 1	ug/L		1%	25%
Phenanthrene	< 1	ug/L		2%	25%

Matrix Spike

Component	1- Percent Recovered	2 - Percent Recovered	Limit	%RPD
Acenaphthene	91%	85%	(46-118)	7%
Pyrene	110%	95%	(26-127)	15%

Surrogate Recoveries

	S1	S2	S3
Batch Number	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
96104	99%	107%	110%

OFF: (505) 325-5667



LAB: (505) 325-1556

METALS ANALYSIS

Attn: *Maureen Gannon*
Company: *PNM Gas Services*
Address: *Alevarado Square, Mail Stop 0408*
City, State: *Albuquerque, NM 87158*

Date: *12-Jul-96*
COC No.: *4758*
Sample No. *11266*
Job No. *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9606191510; MW-3*
Sampled by: *MS*
Analyzed by: *MWL*
Sample Matrix: *Water*

Date: *19-Jun-96* Time: *15:10*
Date: *5-Jul-96*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>	<i>Method</i>
<i>Arsenic (As), Dissolved</i>	<i>0.10</i>	<i>0.02</i>	<i>mg/L</i>	<i>EPA Method 206.2</i>
<i>Barium (Ba), Dissolved</i>	<i>1.25</i>	<i>0.005</i>	<i>mg/L</i>	<i>EPA Method 200.7</i>
<i>Cadmium (Cd), Dissolved</i>	<i><0.002</i>	<i>0.002</i>	<i>mg/L</i>	<i>EPA Method 200.7</i>
<i>Chromium (Cr), Dissolved</i>	<i>0.02</i>	<i>0.01</i>	<i>mg/L</i>	<i>EPA Method 200.7</i>
<i>Lead (Pb), Dissolved</i>	<i>0.16</i>	<i>0.01</i>	<i>mg/L</i>	<i>EPA Method 239.2</i>
<i>Selenium (Se), Dissolved</i>	<i><0.02</i>	<i>0.02</i>	<i>mg/L</i>	<i>EPA Method 270.2</i>
<i>Silver (Ag), Dissolved</i>	<i><0.01</i>	<i>0.01</i>	<i>mg/L</i>	<i>EPA Method 200.7</i>
<i>Mercury (Hg), Dissolved</i>	<i><0.0004</i>	<i>0.0004</i>	<i>mg/L</i>	<i>EPA Method 245.1</i>

Approved by: *Ja 4*
Date: *7/12/96*

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LAB: (505) 325-1556

QUALITY ASSURANCE REPORT*Metals Analysis*

Date: 5-Jul-96

Quality Control Sample

<i>Parameter</i>	<i>Initial Check Sample</i>	<i>Final Check Sample</i>	<i>Percent Recovery</i>
<i>Arsenic, As</i>	104	111	%
<i>Barium, Ba</i>	101	100	%
<i>Cadmium, Cd</i>	100	101	%
<i>Chromium, Cr</i>	100	99	%
<i>Lead, Pb</i>	99	100	%
<i>Selenium, Se</i>	96	102	%
<i>Silver, Ag</i>	100	100	%
<i>Mercury, Hg</i>	110	106	%

Matrix Spike

<i>Parameter</i>	<i>Spike % Recovery</i>	<i>Duplication % RSD</i>
<i>Arsenic, As</i>	N/A	13.6
<i>Barium, Ba</i>	94	0
<i>Cadmium, Cd</i>	80	< 2 X D.L.
<i>Chromium, Cr</i>	85	0
<i>Lead, Pb</i>	86	< 2 X D.L.
<i>Selenium, Se</i>	N/A	< 2 X D.L.
<i>Silver, Ag</i>	86	< 2 X D.L.
<i>Mercury, Hg</i>	106	< 2 X D.L.

Method Blank

<i>Parameter</i>	<i>Analyzed Value</i>	<i>Unit of Measure</i>
<i>Arsenic, As</i>	<0.02	mg/L
<i>Barium, Ba</i>	<0.005	mg/L
<i>Cadmium, Cd</i>	<0.002	mg/L
<i>Chromium, Cr</i>	<0.01	mg/L
<i>Lead, Pb</i>	<0.01	mg/L
<i>Selenium, Se</i>	<0.02	mg/L
<i>Silver, Ag</i>	<0.01	mg/L
<i>Mercury, Hg</i>	<0.0004	mg/L

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LAB: (505) 325-1556

WATER ANALYSIS

Attn: **Maureen Gannon**
Company: **PNM Gas Services**
Address: **Alevarado Square, Mail Stop 0408**
City, State: **Albuquerque, NM 87158**

Date: **12-Jul-96**
COC No.: **4758**
Sample ID: **11264**
Job No.: **2-1000**

Project Name: **PNM Gas Services - Templeton 1E**
Project Location: **9606191430; MW-1**
Sampled by: **MS**
Analyzed by: **OSL/IML/MWL**
Sample Matrix: **Water**

Date: **19-Jun-96** Time: **14:30**
Date: **5-Jul-96**

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>	<i>Method</i>
<i>Copper (Cu), Total</i>	0.08	0.05	mg/L	EPA Method 220.1
<i>Iron (Fe), Total</i>	14.20	0.05	mg/L	EPA Method 236.1
<i>Manganese (Mn), Total</i>	4.84	0.05	mg/L	EPA Method 243.1
<i>Zinc (Zn), Total</i>	0.11	0.05	mg/L	EPA Method 289.1
<i>Chloride (Cl)</i>	179.0	0.5	mg/L	EPA Method 325.3
<i>Fluoride (F)</i>	0.68	0.01	mg/L	EPA Method 340.2
<i>Nitrate (NO3 as N)</i>	<0.05	0.05	mg/L	EPA Method 352.1
<i>Sulfate (SO4)</i>	3136	1	mg/L	EPA Method 375.3
<i>Cyanide (CN), Total</i>	<0.10	0.10	mg/L	EPA Method 335.2
<i>Total Dissolved Solids</i>	5320	1	mg/L	EPA Method 160.1
<i>pH</i>	7.13			EPA Method 150.1

Approved by: *JAG*
Date: *7/12/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

WATER ANALYSIS

Attn: **Maureen Gannon**
Company: **PNM Gas Services**
Address: **Alevardo Square, Mail Stop 0408**
City, State: **Albuquerque, NM 87158**

Date: **12-Jul-96**
COC No.: **4758**
Sample ID: **11265**
Job No.: **2-1000**

Project Name: **PNM Gas Services - Templeton 1E**
Project Location: **9606191450; MW-2**
Sampled by: **MS**
Analyzed by: **OSL/IML/MWL**
Sample Matrix: **Water**

Date: **19-Jun-96** Time: **14:50**
Date: **5-Jul-96**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Copper (Cu), Total	0.08	0.05	mg/L	EPA Method 220.1
Iron (Fe), Total	22.80	0.05	mg/L	EPA Method 236.1
Manganese (Mn), Total	5.93	0.05	mg/L	EPA Method 243.1
Zinc (Zn), Total	0.12	0.05	mg/L	EPA Method 289.1
Chloride (Cl)	196.0	0.5	mg/L	EPA Method 325.3
Fluoride (F)	0.80	0.01	mg/L	EPA Method 340.2
Nitrate (NO3 as N)	<0.05	0.05	mg/L	EPA Method 352.1
Sulfate (SO4)	3285	1	mg/L	EPA Method 375.3
Cyanide (CN), Total	<0.02	0.02	mg/L	EPA Method 335.2
Total Dissolved Solids	5601	1	mg/L	EPA Method 160.1
pH	7.44			EPA Method 150.1

Approved by: 
Date: **7/12/96**

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WATER ANALYSIS

Attn: **Maureen Gannon**
Company: **PNM Gas Services**
Address: **Alevarado Square, Mail Stop 0408**
City, State: **Albuquerque, NM 87158**

Date: **12-Jul-96**
COC No.: **4758**
Sample ID: **11266**
Job No.: **2-1000**

Project Name: **PNM Gas Services - Templeton 1E**
Project Location: **9606191510; MW-3**
Sampled by: **MS**
Analyzed by: **OSL/IML/MWL**
Sample Matrix: **Water**

Date: **19-Jun-96** Time: **15:10**
Date: **5-Jul-96**

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>	<i>Method</i>
<i>Copper (Cu), Total</i>	0.06	0.05	mg/L	EPA Method 220.1
<i>Iron (Fe), Total</i>	16.40	0.05	mg/L	EPA Method 236.1
<i>Manganese (Mn), Total</i>	6.44	0.05	mg/L	EPA Method 243.1
<i>Zinc (Zn), Total</i>	0.09	0.05	mg/L	EPA Method 289.1
<i>Chloride (Cl)</i>	159.0	0.5	mg/L	EPA Method 325.3
<i>Fluoride (F)</i>	0.54	0.01	mg/L	EPA Method 340.2
<i>Nitrate (NO3 as N)</i>	<0.05	0.05	mg/L	EPA Method 352.1
<i>Sulfate (SO4)</i>	2760	1	mg/L	EPA Method 375.3
<i>Cyanide (CN), Total</i>	<0.04	0.04	mg/L	EPA Method 335.2
<i>Total Dissolved Solids</i>	4738	1	mg/L	EPA Method 160.1
<i>pH</i>	7.28			EPA Method 150.1

Approved by:

Date: 7/12/96

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WATER ANALYSIS

Attn: **Maureen Gannon**
Company: **PNM Gas Services**
Address: **Alevarado Square, Mail Stop 0408**
City, State: **Albuquerque, NM 87158**

Date: **12-Jul-96**
COC No.: **4758**
Sample ID: **11267**
Job No.: **2-1000**

Project Name: **PNM Gas Services - Templetton 1E**

Project Location: **9606191530; MW-4**

Sampled by: **MS**

Date: **19-Jun-96** Time: **15:30**

Analyzed by: **OSL/IML/MWL**

Date: **5-Jul-96**

Sample Matrix: **Water**

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>	<i>Method</i>
<i>Copper (Cu), Total</i>	0.06	0.05	mg/L	EPA Method 220.1
<i>Iron (Fe), Total</i>	13.60	0.05	mg/L	EPA Method 236.1
<i>Manganese (Mn), Total</i>	5.67	0.05	mg/L	EPA Method 243.1
<i>Zinc (Zn), Total</i>	0.06	0.05	mg/L	EPA Method 289.1
<i>Chloride (Cl)</i>	281.0	0.5	mg/L	EPA Method 325.3
<i>Fluoride (F)</i>	0.68	0.01	mg/L	EPA Method 340.2
<i>Nitrate (NO3 as N)</i>	<0.05	0.05	mg/L	EPA Method 352.1
<i>Sulfate (SO4)</i>	3427	1	mg/L	EPA Method 375.3
<i>Cyanide (CN), Total</i>	<0.04	0.04	mg/L	EPA Method 335.2
<i>Total Dissolved Solids</i>	5657	1	mg/L	EPA Method 160.1
<i>pH</i>	7.18			EPA Method 150.1

Approved by: *JAC*
Date: *7/12/96*

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WATER ANALYSIS

Attn: **Maureen Gannon**
Company: **PNM Gas Services**
Address: **Alevarado Square, Mail Stop 0408**
City, State: **Albuquerque, NM 87158**

Date: **12-Jul-96**
COC No.: **4758**
Sample ID: **11268**
Job No.: **2-1000**

Project Name: **PNM Gas Services - Templeton 1E**
Project Location: **9606191550; MW-5**

Sampled by: **MS** Date: **19-Jun-96** Time: **15:50**
Analyzed by: **OSL/IML/MWL** Date: **5-Jul-96**
Sample Matrix: **Water**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Copper (Cu), Total	0.09	0.05	mg/L	EPA Method 220.1
Iron (Fe), Total	35.90	0.05	mg/L	EPA Method 236.1
Manganese (Mn), Total	8.04	0.05	mg/L	EPA Method 243.1
Zinc (Zn), Total	0.33	0.05	mg/L	EPA Method 289.1
Chloride (Cl)	215.0	0.5	mg/L	EPA Method 325.3
Fluoride (F)	0.64	0.01	mg/L	EPA Method 340.2
Nitrate (NO3 as N)	<0.05	0.05	mg/L	EPA Method 352.1
Sulfate (SO4)	3391	1	mg/L	EPA Method 375.3
Cyanide (CN), Total	<0.04	0.04	mg/L	EPA Method 335.2
Total Dissolved Solids	5865	1	mg/L	EPA Method 160.1
pH	7.20			EPA Method 150.1

Approved by: 
Date: **7/12/96**

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LAB: (505) 325-1556

QUALITY ASSURANCE REPORT*Water Analysis*

Date: 5-Jul-96

Quality Control Sample

<i>Parameter</i>	<i>Laboratory Identification</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>Unit of Measure</i>	<i>% Diff</i>	<i>Limit % Diff</i>
Copper, Cu	0422-QC	2.00	2.06	mg/L	3	10
Iron, Fe	0422-QC	2.00	1.90	mg/L	-5	10
Manganese, Mn	0422-QC	1.00	1.03	mg/L	2	10
Zinc, Zn	0422-QC	0.40	0.40	mg/L	1	10
Chloride, Cl	0483-QC	138.0	140.0	mg/L	1	10
Fluoride, F	IML705	0.40	0.40	mg/L	0	30
Nitrate, NO ₃ as N	IML-705	10.30	9.48	mg/L	-8	10
Sulfate, SO ₄	0483-QC	124	130	mg/L	5	10
Cyanide, CN	MWL-722	1.00	0.82	mg/L	-18	15
Total Dissolved Solids	0483-QC	913	880	mg/L	-4	10
pH	0456-QC	9.09	8.90		-2	5

Matrix Spike

<i>Parameter</i>	<i>Laboratory Identification</i>	<i>Analyzed Value</i>	<i>Matrix Spike</i>	<i>Spike Value</i>	<i>Unit of Measure</i>	<i>Spike Recovery</i>
Copper (Cu), Total	11268-4758	0.09	1.00	1.04	mg/L	95%
Iron (Fe), Total	11268-4758	35.90	1.00	39.50	mg/L	107%
Manganese (Mn), Total	11268-4758	8.04	1.00	9.13	mg/L	101%
Zinc (Zn), Total	11268-4758	0.33	1.00	1.25	mg/L	94%

Method Blank

<i>Parameter</i>	<i>Laboratory Identification</i>	<i>Analyzed Value</i>	<i>Unit of Measure</i>
Copper (Cu), Total	LF-Blank	<0.05	mg/L
Iron (Fe), Total	LF-Blank	<0.05	mg/L
Manganese (Mn), Total	LF-Blank	<0.05	mg/L
Zinc (Zn), Total	LF-Blank	<0.05	mg/L
Chloride, Cl	LF-Blank	< 2 X DL	mg/L
Fluoride, F	LF-Blank	<0.01	mg/L
Nitrate, NO ₃ as N	LF-Blank	<0.05	mg/L
Sulfate, SO ₄	LF-Blank	< 1	mg/L
Cyanide (CN), Total	LF-Blank	<0.10	mg/L
Total Dissolved Solids	LF-Blank	< 1	mg/L

CHAIN OF CUSTODY RECORD

4758

Date: 6/19/96Page 1 of 1

VEEVA TECHNOLOGIES, LTD.
657 W. Maple • P. O. Box 2606 • Farmington NM 87499
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[illegible]

Distribution	White - On Site	Yellow	Pink	Sampler	Goldtonrod	Client
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