

3R - 344

REPORTS

DATE:

1998

Public Service Company
of New Mexico
Alvarado Square MS 0408
Albuquerque, NM 87158

April 2, 1998

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

RECEIVED
APR 13 1998
Oil Conservation Bureau
Oil Conservation Division



RE: 1998 SAN JUAN BASIN ANNUAL GROUNDWATER REPORT

Dear Bill:

PNM is pleased to submit the 1998 Annual 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 reported in this document is provided below.

Cozzens B1
Dogie Compressor Station East Pit
Dogie Compressor Station North Pit
Florance 32A
Florance Z 40 M
Florance 44
Florance 47X
Florance 124
Hampton 4M
Honolulu Loop Line Drip
Ice Canyon Drip
Jacques 2A
Mangum 1E
McClanahan 22
McClanahan A2E
McCoy Gas Com A1
Miles Federal 1E
Miles Federal 1E Drip
Randleman 1
Reid 16 Drip
Sammons 2
~~Turner 1A~~
Turner 3
Zachry 18E

PNM 1998 Groundwater Report

PNM plans to request closure of two of the above sites, the Cozzens B1 and the Sammons 2, in our April 30, 1998 filing of the San Juan Pit Closure Reports to the OCD Santa Fe office. If you have any questions regarding the contents of the report, please contact me at (505) 241-2974.

Sincerely,



Maureen Gannon
Project Manager

Attachment

cc: Ingrid Deklau, WFS
Denny Foust, OCD-Aztec Office
Bill VonDrehle, WFS

PNM 1998 Groundwater Report

bcc: Colin Adams (w/o analytical results)
Kathy Juckes
Ron Johnson (w/o analytical results)
Mark Sikelianos

Groundwater Site Summary Report

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

Quarter/Year: 2nd/97, 3rd/97, 4th/97 & 1st/98

Operator: Burlington Resources
Sec: 24 Twn: 31N Rng: 11W Unit: M
Canyon: Animas

Vulnerable Class: Original
OCD Ranking: 40
Lead Agency: NMOCD

Topo Map: previously submitted

Well Completion Diagram: Figure 1

Site Map with Analytical Results: Figure 2

Groundwater Contour Map: Figure 3 (August 1997), Figure 4 (December 1997) & Figure 5 (February 1998)

Hydrograph: Figure 6

Full suite-Groundwater Sampling Results: Table 1

Analytical Results: attached

Activities for Previous Year:

PNM installed four groundwater monitoring wells at the Turner 1A well site on July 24, 1997. All well installations were conducted pursuant to the PNM San Juan Basin Groundwater Management Plan. Figure 1 presents a typical monitoring well diagram for the site.

Quarterly sampling took place on August 21 and December 3, 1997 and again on February 11, 1998. Water level measurements were taken in the four monitoring wells. PNM conducted groundwater sampling in each well for chemical analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX). In addition, MW-1 and MW-2 were sampled for major cations/anions and Water Quality Control Commission (WQCC) dissolved metals. All sampling was performed in strict compliance with EPA protocol.

PNM delivered the samples to OnSite Technologies, Farmington, New Mexico. The samples were analyzed using the following methods:

- benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8020
- major cations/anions using various EPA methods
- WQCC metals- filtered (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).

PNM is currently conducting additional source removal at this site in order to address the elevated benzene levels in MW-2.

Results:

Figure 2 presents a site map showing BTEX for each monitoring well since groundwater contamination was discovered. Table 1 provides a summary of the full suite of analytical results from groundwater samples collected on August 21, 1997. MW-1, -3 and -4 have shown "non-detect" for or below WQCC standard for BTEX over the last three quarters. MW-2 contains benzene over standard. Toluene, ethylbenzene and xylenes are below standard in this well. The water quality analysis in MW-1 and -2 showed metals and cations/anions to be present in very low or non-detectable concentrations.

Figures 3, 4 and 5 provide groundwater contour maps for August and December 1997 and February 1998, respectively. Groundwater beneath the site travels in a northwesterly direction. Figure 6 is a hydrograph of the site. Water levels have decreased by approximately 3 feet in all wells over time. Groundwater elevations are strongly influenced by the irrigation ditch to the north of the site that operates in spring and summer months.

Future Actions:

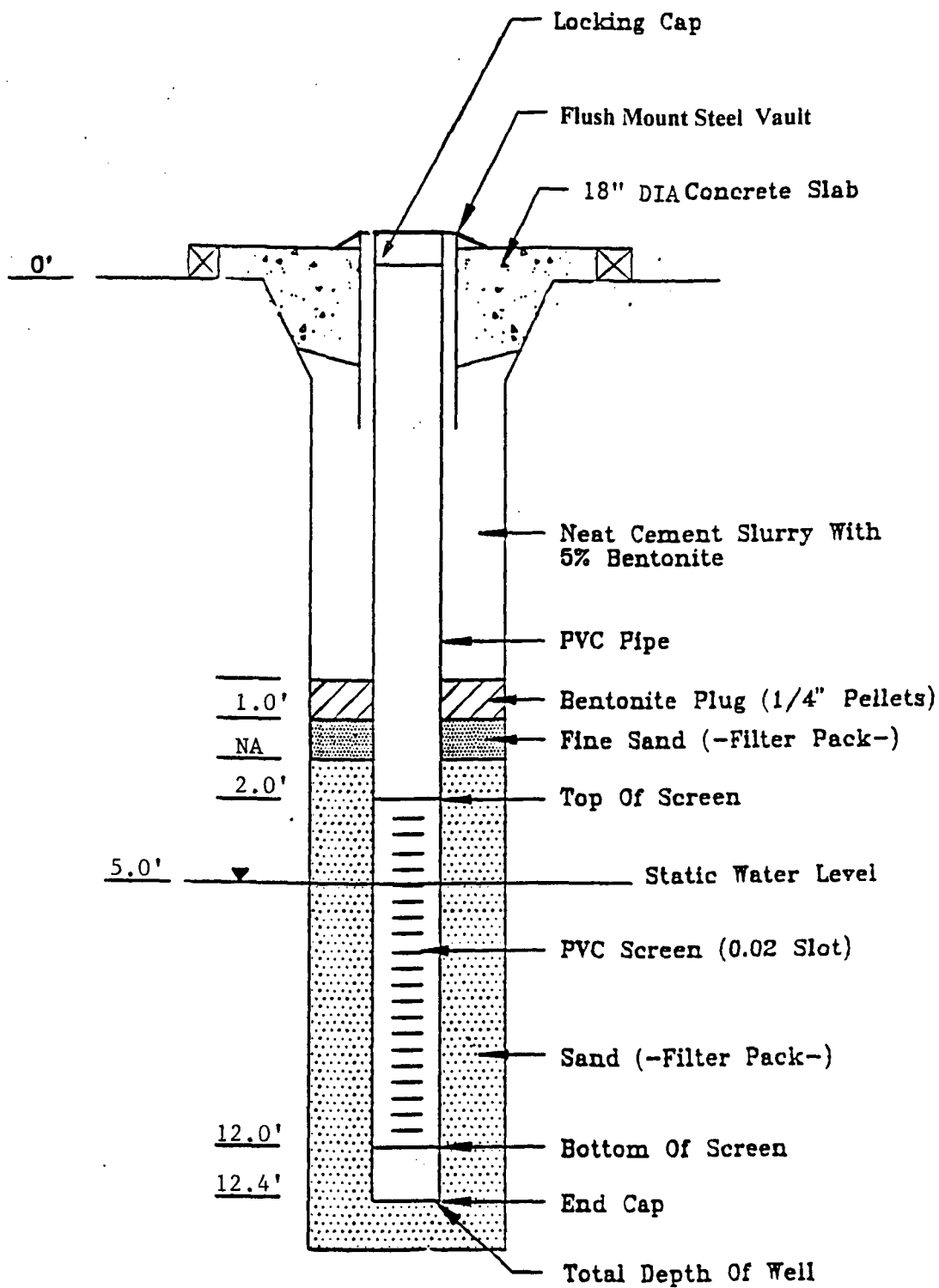
After source removal is complete, PNM will continue to monitor groundwater elevations and conduct quarterly groundwater sampling at the Turner 1A.

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



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

Turner 1A
Figure 1
Well Completion Diagram

Figure 2. Turner 1A Site Map & Analytical Results
(Concentrations in ppb)



Figure 3. Turner 1A Groundwater Contour Map (August 21, 1997)

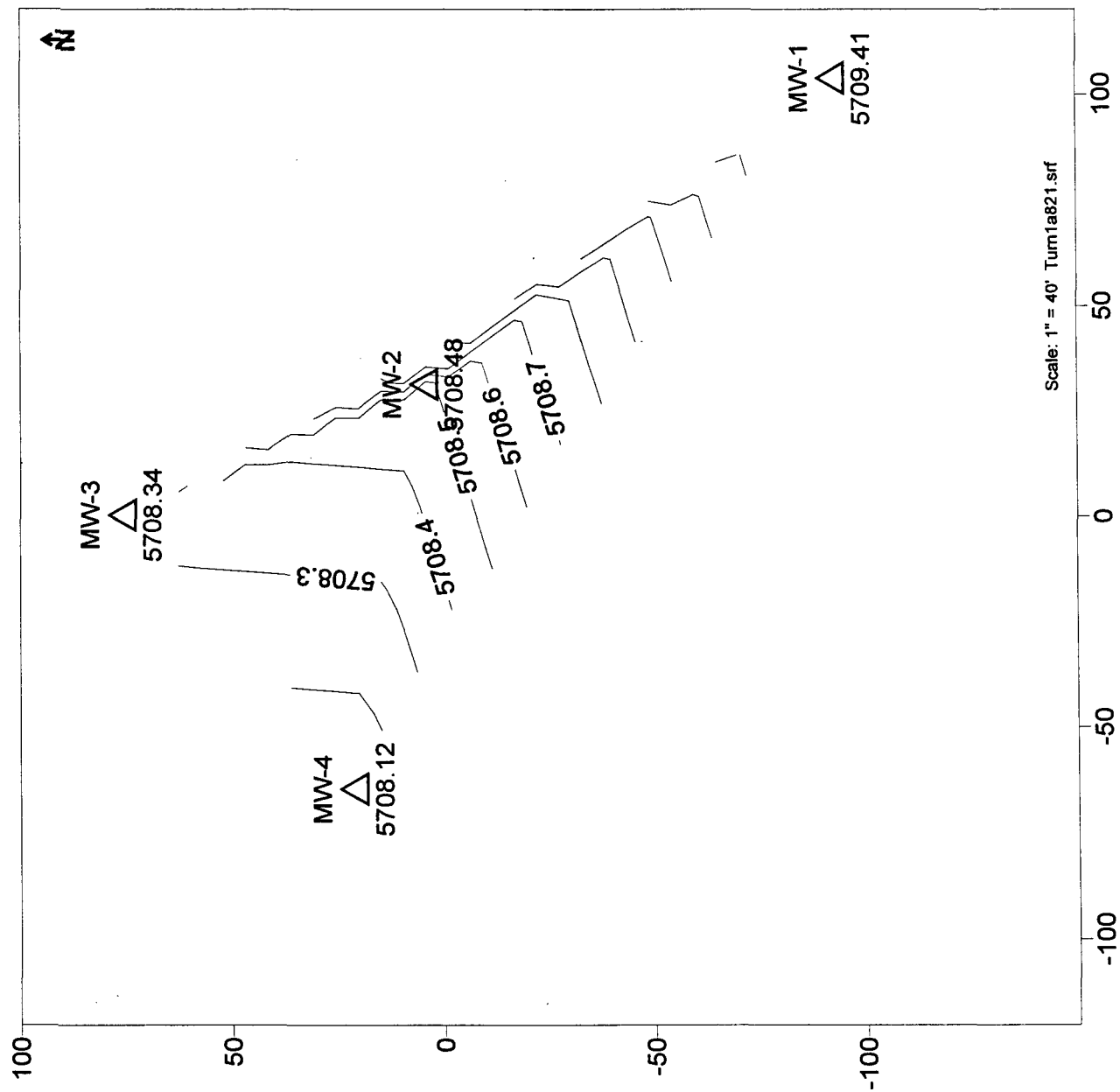


Figure 4. Turner 1A Groundwater Contour Map (December 3, 1997)

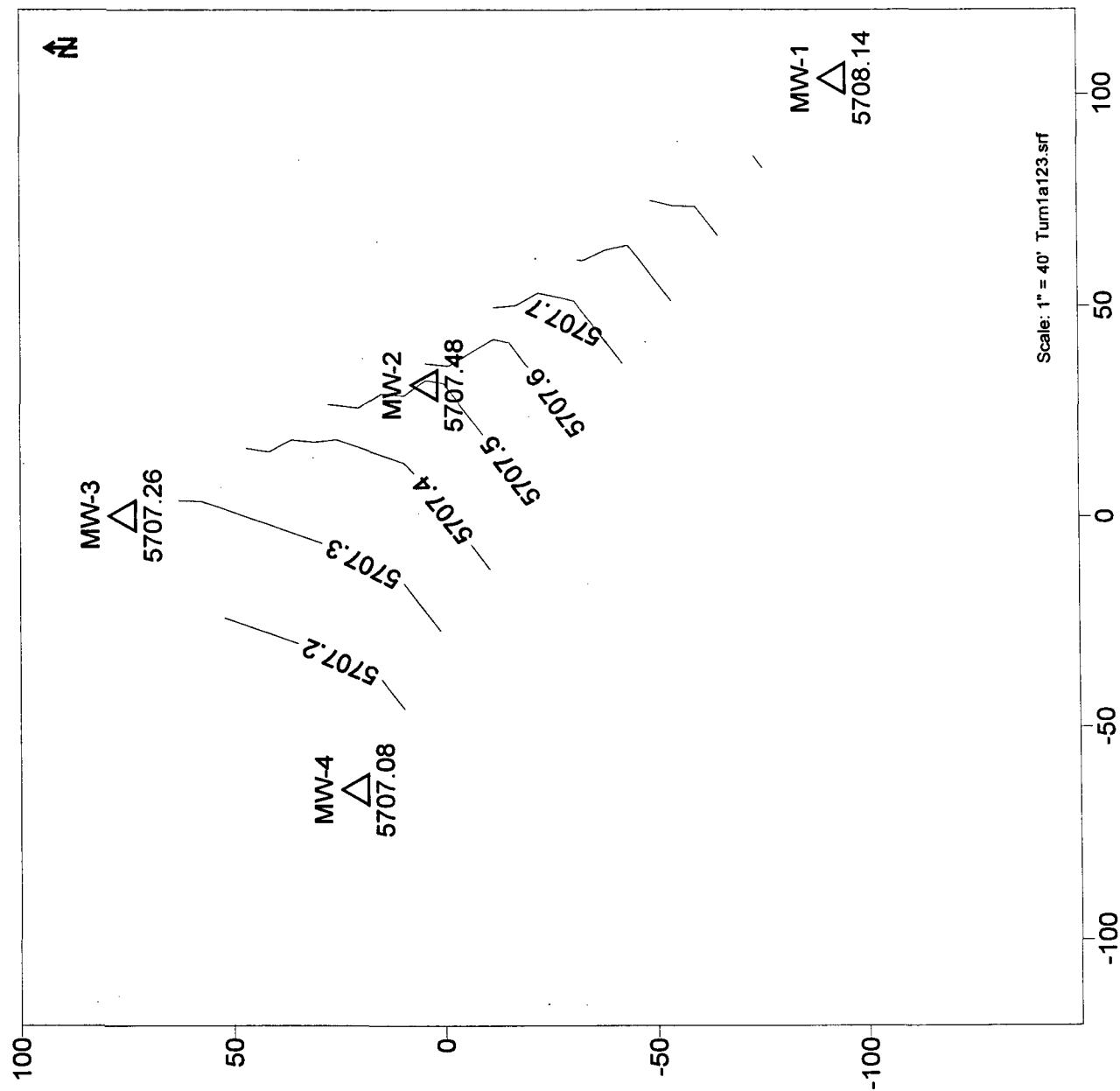


Figure 5. Turner 1A Groundwater Contour Map (February 11, 1998)

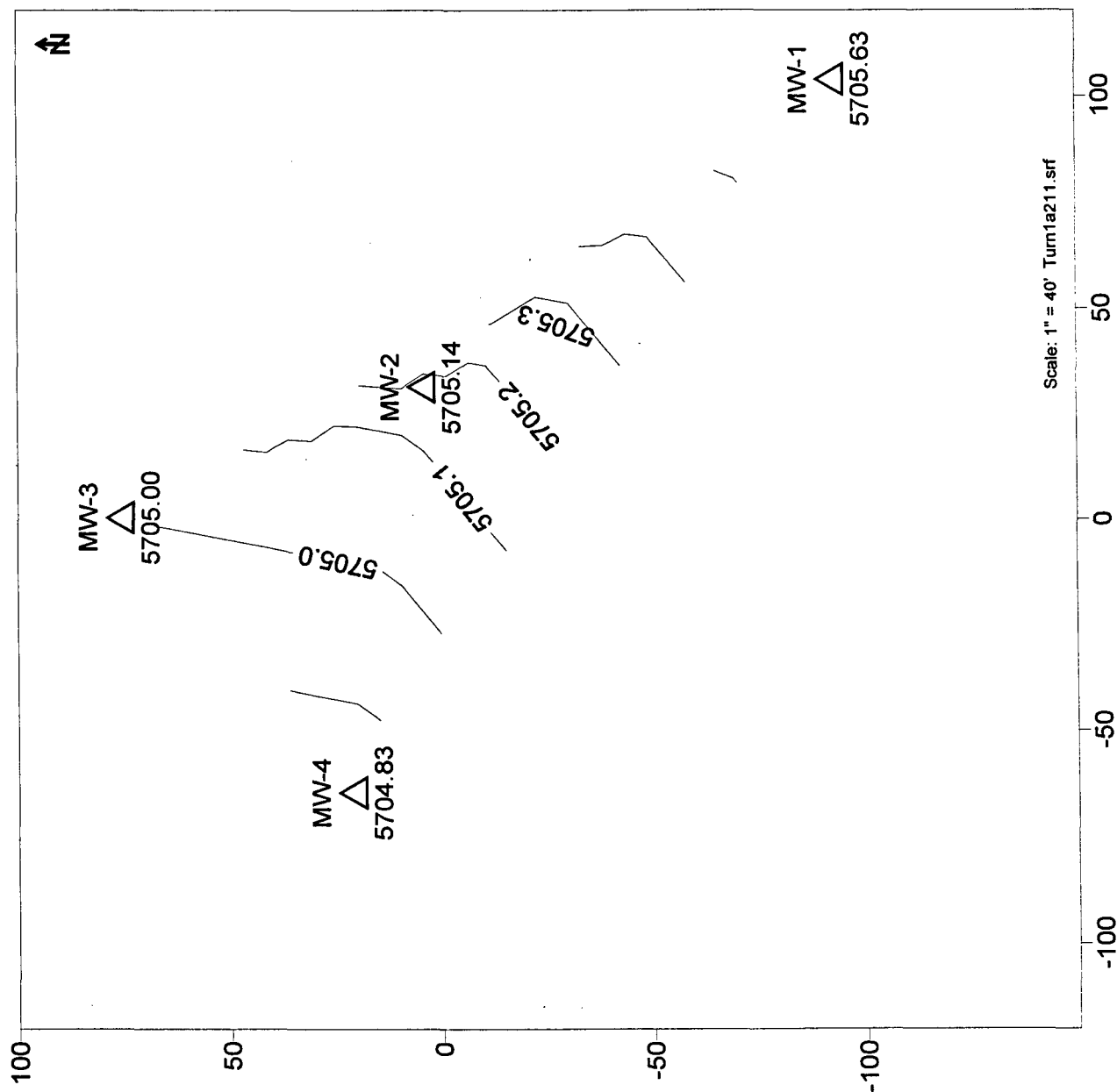


Figure 6. Turner 1A Hydrograph
(Water Level vs. Time)

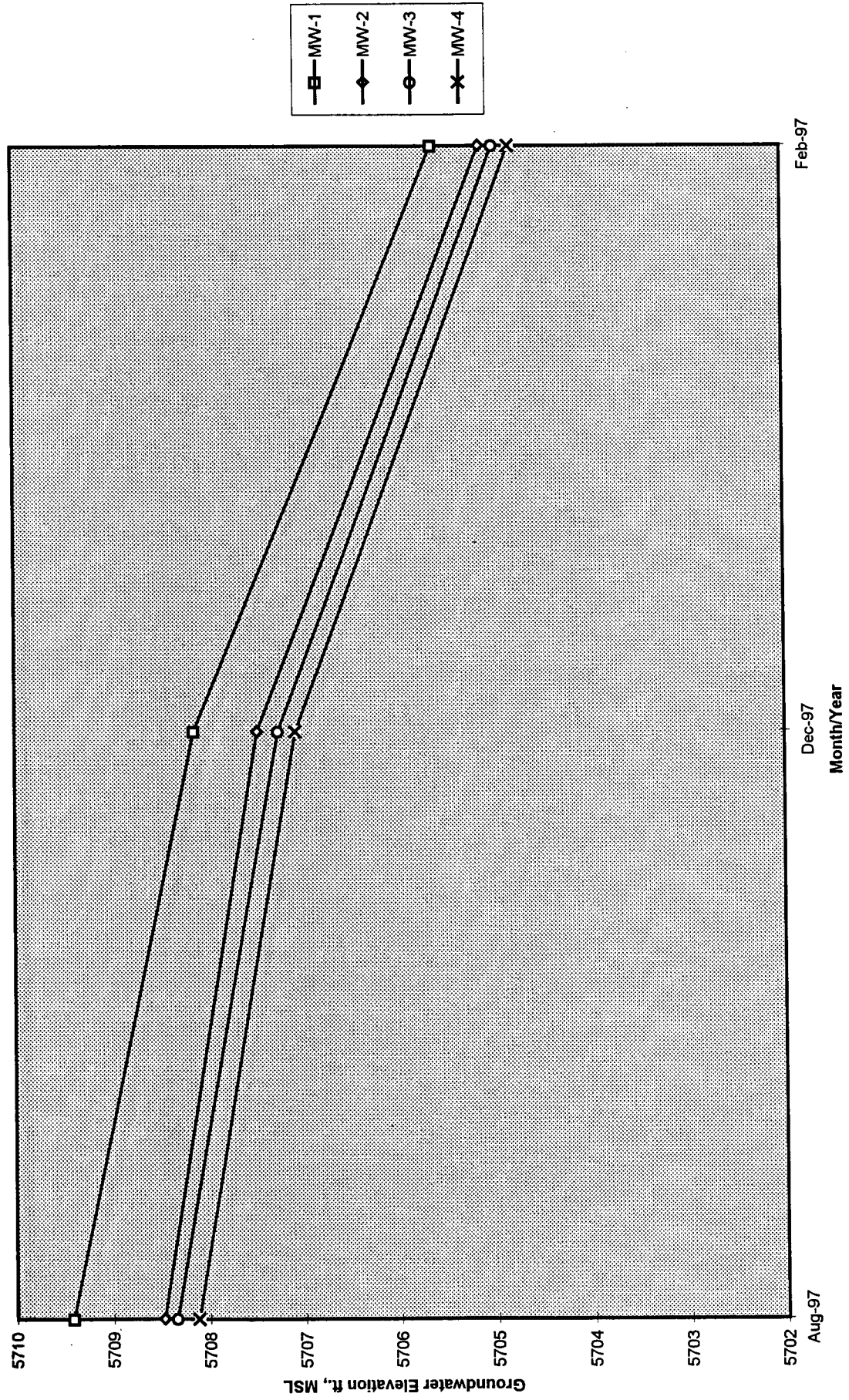


Table 1. TURNER 1A GROUNDWATER SAMPLING RESULTS, mg/l (8/21/97)

Constituent	WQCC Stds.	MW-1	MW-2	MW-3	MW-4	MW-5 (MW- 2 duplicate)
B	0.01	<0.0002	0.2920	<0.0002	0.0015	0.2920
T	0.75	<0.0002	0.0160	0.0002	<0.0002	0.0150
E	0.75	<0.0002	0.1220	<0.0002	<0.0002	0.1220
X	0.62	<0.0002	0.0930	0.0003	<0.0002	0.0960
PAHs	0.03	NA	NA	NA	NA	NA
Metals						
As	0.1	<0.15	0.48	NA	NA	NA
Ba	1	0.06	0.06	NA	NA	NA
Cd	0.01	<0.020	<0.020	NA	NA	NA
Cr	0.05	<0.050	<0.050	NA	NA	NA
Pb	0.05	<0.20	<0.20	NA	NA	NA
Se	0.05	<0.35	<0.35	NA	NA	NA
Ag	0.05	<0.030	<0.030	NA	NA	NA
Hg	0.002	<0.0005	<0.0005	NA	NA	NA
Cations/Anions						
Na	NA	28	213	NA	NA	NA
Ca	NA	96	81	NA	NA	NA
Mg	NA	23.0	21.5	NA	NA	NA
K	NA	2.3	5.9	NA	NA	NA
Cl	NA	21.2	42.1	NA	NA	NA
SO ₄	NA	105	11	NA	NA	NA
CO ₃	NA	<1	<1	NA	NA	NA
HCO ₃	NA	325	889	NA	NA	NA
OH	NA	<1	<1	NA	NA	NA
Cation/Anion Balance						
Difference Cation- Anion	NA	0.13	0.75	NA	NA	NA
Total Cation-Anion	NA	16.09	31.21	NA	NA	NA
% Difference	NA	0.8	2.4	NA	NA	NA
TDS, calc	NA	601	1263	NA	NA	NA
TDS, meas	NA	530	1068	NA	NA	NA
Hardness as CaCO ₃	NA	334	291	NA	NA	NA

NA: Not Applicable

BDL: Below Detection Limit

NS: Not Sampled

** Out of Acceptable Range, % Diff. +/-5

P Free Product

Turner 1A

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *27-Aug-97*
COC No.: *5652*
Sample No.: *15852*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9708211130; MW-1*
Sampled by: *MG/MS* Date: *21-Aug-97* Time: *11:30*
Analyzed by: *DC* Date: *25-Aug-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug L
<i>Toluene</i>	ND	ug/L	0.2	ug L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug L
<i>o-Xylene</i>	ND	ug/L	0.2	ug L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *8/28/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
 Company: *PNM Gas Services*
 Address: *603 W. Elm*
 City, State: *Farmington, NM 87401*

Date: *12-Sep-97*
 COC No.: *5652*
 Sample ID.: *15852*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*Project Location: *9708211130; MW-1*Sampled by: *MS/MG*Date: *21-Aug-97* Time: *11:30*Analyzed by: *HR*Date: *3-Sep-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Results as Received	Unit of Measure
<i>Cations</i>				
<i>Sodium Na</i>	28	mg/L	1.24	me/L
<i>Calcium Ca</i>	96	mg/L	4.79	me/L
<i>Magnesium Mg</i>	23.0	mg/L	1.89	me/L
<i>Potassium K</i>	2.3	mg/L	0.06	me/L
<i>Anions</i>				
<i>Chloride Cl</i>	21.2	mg/L	0.60	me/L
<i>Sulfate SO4</i>	105	mg/L	2.19	me/L
<i>Carbonate CO3 as CaCO3</i>	< 1	mg/L	< 0.01	me/L
<i>Bicarbonate HCO3 as CaCO3</i>	325	mg/L	5.33	me/L
<i>Hydroxide OH as CaCO3</i>	< 1	mg/L	< 0.01	me/L
<i>Total Dissolved Solids</i>			<i>Cation-Anion Balance</i> 0.13 <i>Difference Cation-Anion, me/L</i> 16.09 <i>Total Cation-Anion, me/L</i> 0.8 % <i>Difference Cation-Anion</i> <i>Comments</i>	
<i>Calculated, Sum of Cation/Anion</i>	601	mg/L		
<i>Total Dissolved Solids</i>				
<i>Dried @ 180 C</i>	530	mg/L		
<i>pH</i>	7.39			
<i>Conductivity @ 25 C</i>	825	uS/cm		
<i>Total Hardness as CaCO3</i>	334	mg/L		

Approved by: *[Signature]*
 Date: *9/12/97*

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1550

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *27-Aug-97*
COC No.: *5652*
Sample No.: *15853*
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Turner 1A***
Project Location: ***9708211200; MW-2***
Sampled by: *MG/MS* Date: *21-Aug-97* Time: *12:00*
Analyzed by: *DC* Date: *25-Aug-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	292	ug/L	1	ug/L
<i>Toluene</i>	16	ug/L	1	ug/L
<i>Ethylbenzene</i>	122	ug/L	1	ug/L
<i>m,p-Xylene</i>	85	ug/L	1	ug/L
<i>o-Xylene</i>	8	ug/L	1	ug/L
<i>TOTAL</i>	524	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *8/28/97*

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TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
 Company: *PNM Gas Services*
 Address: *603 W. Elm*
 City, State: *Farmington, NM 87401*

Date: *12-Sep-97*
 COC No.: *5652*
 Sample ID.: *15853*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*Project Location: *9708211200; MW-2*Sampled by: *MS/MG*Date: *21-Aug-97* Time: *12:00*Analyzed by: *HR*Date: *3-Sep-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Results as Received	Unit of Measure
<i>Cations</i>				
<i>Sodium Na</i>	<i>213</i>	<i>mg/L</i>	<i>9.26</i>	<i>me/L</i>
<i>Calcium Ca</i>	<i>81</i>	<i>mg/L</i>	<i>4.04</i>	<i>me/L</i>
<i>Magnesium Mg</i>	<i>21.5</i>	<i>mg/L</i>	<i>1.77</i>	<i>me/L</i>
<i>Potassium K</i>	<i>5.9</i>	<i>mg/L</i>	<i>0.15</i>	<i>me/L</i>
<i>Anions</i>				
<i>Chloride Cl</i>	<i>42.1</i>	<i>mg/L</i>	<i>1.19</i>	<i>me/L</i>
<i>Sulfate SO4</i>	<i>11</i>	<i>mg/L</i>	<i>0.22</i>	<i>me/L</i>
<i>Carbonate CO3 as CaCO3</i>	<i>< 1</i>	<i>mg/L</i>	<i>< 0.01</i>	<i>me/L</i>
<i>Bicarbonate HCO3 as CaCO3</i>	<i>889</i>	<i>mg/L</i>	<i>14.57</i>	<i>me/L</i>
<i>Hydroxide OH as CaCO3</i>	<i>< 1</i>	<i>mg/L</i>	<i>< 0.01</i>	<i>me/L</i>
<i>Total Dissolved Solids</i>			<i>Cation-Anion Balance</i> <i>0.75 Difference Cation-Anion, me/L</i> <i>31.21 Total Cation-Anion, me/L</i> <i>2.4 % Difference Cation-Anion</i> <i>Comments</i>	
<i>Calculated, Sum of Cation/Anion</i>	<i>1263</i>	<i>mg/L</i>		
<i>Total Dissolved Solids</i>				
<i>Dried @ 180 C</i>	<i>1068</i>	<i>mg/L</i>		
<i>pH</i>	<i>7.16</i>			
<i>Conductivity @ 25 C</i>	<i>1590</i>	<i>uS/cm</i>		
<i>Total Hardness as CaCO3</i>	<i>291</i>	<i>mg/L</i>		

Approved by: *[Signature]*
 Date: *9/12/97*

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *27-Aug-97*
COC No.: *5652*
Sample No.: *15854*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9708211230; MW-3*
Sampled by: *MG/MS*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *21-Aug-97* Time: *12:30*
Date: *25-Aug-97*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.3	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	0.5	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *Jac*
Date: *8/28/97*

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *27-Aug-97*
COC No.: *5652*
Sample No.: *15855*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9708211300; MW-4*
Sampled by: *MG/MS*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *21-Aug-97* Time: *13:00*
Date: *25-Aug-97*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>1.5</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>1.5</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *8/20/97*

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TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *27-Aug-97*
COC No.: *5652*
Sample No.: *15856*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9708211330; MW-5*
Sampled by: *MG/MS*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *21-Aug-97* Time: *13:30*
Date: *25-Aug-97*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>292</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Toluene</i>	<i>15</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>122</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>86</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>10</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>525</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *8/29/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

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TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 25-Aug-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

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	RPD	Limit
Benzene	ppb	20.0	19.5	3	15%
Toluene	ppb	20.0	20.4	2	15%
Ethylbenzene	ppb	20.0	20.7	3	15%
m,p-Xylene	ppb	40.0	39.5	1	15%
o-Xylene	ppb	20.0	20.5	2	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit
Benzene	98	89	(39-150)	3	20%
Toluene	99	97	(46-148)	2	20%
Ethylbenzene	99	96	(32-160)	3	20%
m,p-Xylene	96	94	(35-145)	3	20%
o-Xylene	98	96	(35-145)	2	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
15852-5652	97				
15853-5652	94				
15854-5652	96				
15855-5652	96				
15856-5652	94				
				YHP 8/29/97	PO 8/26/97

S1: Fluorobenzene

OFF: (505) 325-5667

ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

Cation Anion Balance

Date: 3-Sep-97

Quality Control Sample

Parameter	Laboratory Identification	True Value	Analyzed Value	Unit of Measure	RPD	Limit RPD
Sodium, Na	0451-QC	2.32	2.31	mg/L	0	10
Calcium, Ca	0465-QC	2.18	2.16	mg/L	1	10
Magnesium, Mg	0465-QC	1.14	1.23	mg/L	8	10
Potassium, K	0451-QC	1.33	1.34	mg/L	1	10
Chloride, Cl	0538-QC	66	70	mg/L	5	10
Sulfate, SO ₄	0541-QC	78	71	mg/L	9	10
Alkalinity	0541-QC	159	168	mg/L	6	10
pH	0541-QC	9.13	9.24		1	10
Conductivity	0541-QC	740	739	uS/cm	0	15
Total Dissolved Solids, 180C	0541-QC	642	602	uS/cm	6	15

Matrix Spike

Parameter	Laboratory Identification	Analyzed Value	Matrix Spike	Spike Value	Unit of Measure	Spike Recovery
Sodium, Na	15843-5650	1.40	0.50	1.93	mg/L	102%
Calcium, Ca	15853-5652	0.81	0.50	1.30	mg/L	99%
Magnesium, Mg	15852-5652	0.58	0.50	1.04	mg/L	94%
Potassium, K	15853-5652	1.46	0.50	2.00	mg/L	103%

Method Blank

Parameter	Laboratory Identification	Analyzed Value	Unit of Measure
Sodium, Na	LF-Blank	< 0.2	mg/L
Calcium, Ca	LF-Blank	< 0.05	mg/L
Magnesium, Mg	LF-Blank	< 0.05	mg/L
Potassium, K	LF-Blank	< 0.05	mg/L
Chloride, Cl	LF-Blank	< 3 X DL	mg/L
Sulfate, SO ₄	LF-Blank	< 1	mg/L
Conductivity	LF-Blank	< 2	uS/cm

(re) 7/12
9/12/97 9/23/97

RECEIVED SEP 22 1997 (12)



Mountain States Analytical, Inc.

September 11, 1997

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:

Project: Turner 1A
MSAI Group: 17570

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

15852-5652 Dissolved

15853-5652 Dissolved

All holding times were met for the tests performed on these samples.

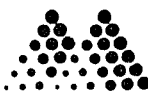
If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen
Project Manager



Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

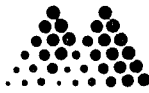
Attn: Mr. David Cox
Project: Turner 1A

9708211130; MWI-1 (M)

Sample ID: 15852-5652 Dissolved
Matrix: Waste Water

MSAI Sample: 67374
MSAI Group: 17570
Date Reported: 09/11/97
Discard Date: 10/11/97
Date Submitted: 08/22/97
Date Sampled: 08/21/97
Collected by:
Purchase Order: 5652
Project No.:

Test Analysis	Results as Received	Units	Limit of Quantitation
-----	-----	-----	-----
0259B Mercury by CVAA, w/ww, 7470 Method: SW-846 7470	ND	mg/l	0.0005
0392I Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Complete		
0392M Mercury Prep CVAA, w/ww, 7470 Method: SW-846 7470	Complete		
45 Arsenic by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.15
7246 Barium by ICP, w/ww, 6010A Method: SW-846 6010A	0.06	mg/l	0.02
7249 Cadmium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.020
7251 Chromium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.050
7255 Lead by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.20
7264 Selenium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.35
7266 Silver by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.030
0939 Sample Filtering, ww, MSAI Method: IN HOUSE MSAI	Complete		



Mountain States Analytical, Inc.

On Site Technologies, Ltd.

The Quality Solution

Page 2

Sample ID: 15852-5652 Dissolved

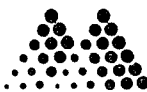
MSAI Sample: 67374
MSAI Group: 17570

ND - Not detected at the limit of quantitation

This report consists of the following items: 1 cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager



Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox

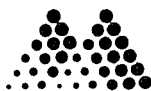
Project: Turner 1A 9708211200; Mx1-2 (M)

Sample ID: 15853-5652 Dissolved
Matrix: Waste Water

RECEIVED SEP 22 1997

MSAI Sample: 67375
MSAI Group: 17570
Date Reported: 09/11/97
Discard Date: 10/11/97
Date Submitted: 08/22/97
Date Sampled: 08/21/97
Collected by:
Purchase Order: 5652
Project No.:

Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, 7470 Method: SW-846 7470	ND	mg/l	0.0005
0392I Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Complete		
0392M Mercury Prep CVAA, w/ww, 7470 Method: SW-846 7470	Complete		
7245 Arsenic by ICP, w/ww, 6010A Method: SW-846 6010A	0.48	mg/l	0.15
7246 Barium by ICP, w/ww, 6010A Method: SW-846 6010A	0.06	mg/l	0.02
7249 Cadmium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.020
7251 Chromium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.050
7255 Lead by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.20
7264 Selenium by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.35
7266 Silver by ICP, w/ww, 6010A Method: SW-846 6010A	ND	mg/l	0.030
0939 Sample Filtering, ww, MSAI Method: IN HOUSE MSAI	Complete		



Mountain States Analytical, Inc.

On Site Technologies, Ltd.

The Quality Solution

Page 2

MSAI Sample: 67375

MSAI Group: 17570

Sample ID: 15853-5652 Dissolved

ND - Not detected at the limit of quantitation

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

Analysis Batch Number: 02598-09/03/97-107 -1

Identification : 02598-Mercury by CVAA, w/ww, 7470

Sequence : 02598-1

Number of Samples : 14

Batch Data-Date/Time : 09/04/97 / 07:43:31

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT
PBW1-583	Mercury	-0.0700	0.1000
PBW2-583-2	Mercury	-0.0600	0.1000

SPIKE						QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
17589-67415	Mercury	1.0000	-0.0500	0.9900	104.0	80.0	120.0

MSD						QC LIMITS			
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
17589-67416	Mercury	1.0000	-0.0500	0.9600	101.0	80.0	120.0	3.1	20.0

DUPLICATE							
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION	
17589-67414	Mercury	-0.0500	-0.0800	46.2(11)	20.0	1.00	

CONTROL						QC LIMITS	
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	LOWER	UPPER	
LCSW-	Mercury	2.4200	2.5000	96.8	80.0	120.0	

		QC LIMITS				
#	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
ICV-	Mercury	3.0000	2.9500	98.3	80.0	120.0
CCV--2	Mercury	5.0000	4.9600	99.2	80.0	120.0
CCV--3	Mercury	5.0000	4.9800	99.6	80.0	120.0
CCV--4	Mercury	5.0000	4.9300	98.6	80.0	120.0

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
ICB-	Mercury	-0.0400	0.1000
CCB-	Mercury	-0.0300	0.1000
CCB-	Mercury	0.0300	0.1000
CCB-	Mercury	ND	0.1000

----- Result Footnotes -----
(11) - Both Duplicate results are less than the MDL.

Groups & Samples

17488-67100	17490-67108	17538-67299	17549-67332	17565-67368	17566-67369	17567-67370	17569-67372
17569-67373	17570-67374	17570-67375	17589-67414	17589-67415	17589-67416	17589-67417	17589-67418

Analysis Batch Number: ICPWA-09/06/97-118 -2
 Identification : ICPWA-*Metals by ICP
 Number of Samples : 14
 Batch Data-Date/Time : 09/08/97 / 16:10:21

Sequence : DATD249

ok
on
09/09/97

BLANK#	ANALYTE	CONC FOUND	#	CONC LIMIT
PBW1-569	Silver	0.0010		0.0060
	Aluminum	0.0064		0.0500
	Arsenic	ND		0.0300
	Barium	0.0004		0.0030
	Cadmium	ND		0.0040
	Chromium	ND		0.0100
	Iron	0.0066		0.2000
	Sodium	0.0471		0.2000
	Lead	0.0069		0.0400
	Selenium	ND		0.0700
	Zinc	0.0039		0.0300
PBW2-569-2	Silver	0.0022		0.0060
	Aluminum	ND		0.0500
	Arsenic	0.0027		0.0300
	Barium	0.0005		0.0030
	Cadmium	0.0004		0.0040
	Chromium	ND		0.0100
	Iron	0.0094		0.2000
	Sodium	0.0465		0.2000
	Lead	0.0013		0.0400
	Selenium	ND		0.0700
	Zinc	0.0086		0.0300

SPIKE						QC LIMITS	
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
17589-67415	Silver	0.0500	-0.0030	0.0504	106.8	80.0	120.0
	Aluminum	2.0000	-0.0103	2.0439	102.7	80.0	120.0
	Arsenic	2.0000	0.0090	2.0429	101.7	80.0	120.0
	Barium	2.0000	0.1444	2.1168	98.6	80.0	120.0
	Cadmium	0.0500	-0.0021	0.0513	106.8	80.0	120.0
	Chromium	0.2000	-0.0037	0.2027	103.2	80.0	120.0
	Iron	1.0000	0.1685	1.0142	84.6	80.0	120.0
	Sodium	3.0000	43.3325	45.1625	61.0(2a)	80.0	120.0
	Lead	0.5000	-0.0269	0.4845	102.3	80.0	120.0
	Selenium	2.0000	-0.0596	1.9558	100.8	80.0	120.0
Zinc	0.5000	0.0273	0.5295	100.4	80.0	120.0	

MSD		QC LIMITS							
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
17589-67416	Silver	0.0500	-0.0030	0.0506	107.2	80.0	120.0	0.4	20.0
	Aluminum	2.0000	-0.0103	2.0427	102.7	80.0	120.0	0.1	20.0
	Arsenic	2.0000	0.0090	2.0192	100.5	80.0	120.0	1.2	20.0
	Barium	2.0000	0.1444	2.1286	99.2	80.0	120.0	0.6	20.0
	Cadmium	0.0500	-0.0021	0.0494	103.0	80.0	120.0	3.8	20.0
	Chromium	0.2000	-0.0037	0.2038	103.8	80.0	120.0	0.5	20.0
	Iron	1.0000	0.1685	1.0157	84.7	80.0	120.0	0.1	20.0
	Sodium	3.0000	43.3325	45.7332	80.0	80.0	120.0	1.3(2a)	20.0
	Lead	0.5000	-0.0269	0.4955	104.5	80.0	120.0	2.2	20.0
	Selenium	2.0000	-0.0596	1.9675	101.4	80.0	120.0	0.6	20.0
	Zinc	0.5000	0.0273	0.5295	100.4	80.0	120.0	0.0	20.0

Analysis Batch Number: ICPWA-09/06/97-118 -2
 Test Identification : ICPWA-*Metals by ICP
 Number of Samples : 14
 Batch Data-Date/Time : 09/08/97 / 16:10:21

Sequence : DATD249

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
17589-67414	Silver	-0.0030	0.0000	200.0(11)	20.0	1.00
	Aluminum	-0.0103	0.0000	200.0(11)	20.0	1.00
	Arsenic	0.0090	0.0000	200.0(11)	20.0	1.00
	Barium	0.1444	0.1469	1.7	20.0	1.00
	Cadmium	-0.0021	0.0000	200.0(11)	20.0	1.00
	Chromium	-0.0037	0.0000	200.0(11)	20.0	1.00
	Iron	0.1685	0.1348	22.2(11)	20.0	1.00
	Sodium	43.3325	43.6790	0.8	20.0	1.00
	Lead	-0.0269	0.0000	200.0(11)	20.0	1.00
	Selenium	-0.0596	0.0000	200.0(11)	20.0	1.00
	Zinc	0.0273	0.0143	62.5(11)	20.0	1.00

CONTROL

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS	
LCSW-569	Silver	0.0512	0.0500	102.4	80.0	120.0
	Aluminum	2.0530	2.0000	102.7	80.0	120.0
	Arsenic	2.0115	2.0000	100.6	80.0	120.0
	Barium	1.9585	2.0000	97.9	80.0	120.0
	Cadmium	0.0537	0.0500	107.4	80.0	120.0
	Chromium	0.2036	0.2000	101.8	80.0	120.0
	Iron	1.0284	1.0000	102.8	80.0	120.0
	Sodium	3.0138	3.0000	100.5	80.0	120.0
	Lead	0.4983	0.5000	99.7	80.0	120.0
	Selenium	1.9959	2.0000	99.8	80.0	120.0
	Zinc	0.5237	0.5000	104.7	80.0	120.0

QC LIMITS

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
ICV-	Silver	0.4000	0.4183	104.6	90.0	110.0
	Aluminum	20.0000	19.9139	99.6	90.0	110.0
	Arsenic	1.6000	1.5772	98.6	90.0	110.0
	Barium	4.0000	3.8217	95.5	90.0	110.0
	Cadmium	4.0000	3.9478	98.7	90.0	110.0
	Chromium	4.0000	4.0352	100.9	90.0	110.0
	Iron	4.0000	3.9539	98.8	90.0	110.0
	Sodium	40.0000	39.8229	99.6	90.0	110.0
	Lead	20.0000	19.4996	97.5	90.0	110.0
	Selenium	1.6000	1.5369	96.1	90.0	110.0
	Zinc	4.0000	3.9682	99.2	90.0	110.0
CCV1--2	Silver	0.4000	0.4232	105.8	90.0	110.0
	Aluminum	20.0000	20.0303	100.2	90.0	110.0
	Arsenic	1.6000	1.6245	101.5	90.0	110.0
	Barium	4.0000	3.8534	96.3	90.0	110.0
	Cadmium	4.0000	4.0517	101.3	90.0	110.0
	Chromium	4.0000	4.1166	102.9	90.0	110.0
	Iron	4.0000	4.0117	100.3	90.0	110.0
	Sodium	40.0000	39.8434	99.6	90.0	110.0
	Lead	20.0000	19.9258	99.6	90.0	110.0
	Selenium	1.6000	1.5364	96.0	90.0	110.0

Analysis Batch Number: ICPWA-09/06/97-118 -2
 Identification : ICPWA-*Metals by ICP
 Number of Samples : 14
 Batch Data-Date/Time : 09/08/97 / 16:10:21

Sequence : DATD249

		QC LIMITS			
CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER UPPER
CCV1--2	Zinc	4.0000	4.0588	101.5	90.0 110.0
CCV2--3	Silver	0.4000	0.4203	105.1	90.0 110.0
	Aluminum	20.0000	20.3618	101.8	90.0 110.0
	Arsenic	1.6000	1.5760	98.5	90.0 110.0
	Barium	4.0000	3.9114	97.8	90.0 110.0
	Cadmium	4.0000	3.9416	98.5	90.0 110.0
	Chromium	4.0000	4.0251	100.6	90.0 110.0
	Iron	4.0000	3.9545	98.9	90.0 110.0
	Sodium	40.0000	42.5832	106.5	90.0 110.0
	Lead	20.0000	19.5396	97.7	90.0 110.0
	Selenium	1.6000	1.5637	97.7	90.0 110.0
	Zinc	4.0000	3.9657	99.1	90.0 110.0
CCV3--4	Silver	0.4000	0.4165	104.1	90.0 110.0
	Aluminum	20.0000	19.9837	99.9	90.0 110.0
	Arsenic	1.6000	1.5529	97.1	90.0 110.0
	Barium	4.0000	3.8473	96.2	90.0 110.0
	Cadmium	4.0000	3.8764	96.9	90.0 110.0
	Chromium	4.0000	3.9690	99.2	90.0 110.0
	Iron	4.0000	3.8979	97.4	90.0 110.0
	Sodium	40.0000	40.0297	100.1	90.0 110.0
	Lead	20.0000	19.1086	95.5	90.0 110.0
	Selenium	1.6000	1.5115	94.5	90.0 110.0
	Zinc	4.0000	3.9112	97.8	90.0 110.0
CCV4--5	Silver	0.4000	0.4279	107.0	90.0 110.0
	Aluminum	20.0000	20.4280	102.1	90.0 110.0
	Arsenic	1.6000	1.6148	100.9	90.0 110.0
	Barium	4.0000	3.9422	98.6	90.0 110.0
	Cadmium	4.0000	4.0601	101.5	90.0 110.0
	Chromium	4.0000	4.1379	103.4	90.0 110.0
	Iron	4.0000	4.0424	101.1	90.0 110.0
	Sodium	40.0000	40.4766	101.2	90.0 110.0
	Lead	20.0000	19.9878	99.9	90.0 110.0
	Selenium	1.6000	1.5847	99.0	90.0 110.0
	Zinc	4.0000	4.0526	101.3	90.0 110.0

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
ICB-	Silver	ND	0.0060
	Aluminum	ND	0.0500
	Arsenic	0.0100	0.0300
	Barium	ND	0.0030
	Cadmium	ND	0.0040
	Chromium	ND	0.0100
	Iron	ND	0.2000
	Sodium	ND	0.2000
	Lead	0.0030	0.0400
	Selenium	ND	0.0700
	Zinc	ND	0.0300
CCB1-	Silver	ND	0.0060
	Aluminum	ND	0.0500

Analysis Batch Number: ICPWA-09/06/97-118 -2
Test Identification : ICPWA-*Metals by ICP
Number of Samples : 14
Batch Data-Date/Time : 09/08/97 / 16:10:21

Sequence : DATD249

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
CCB1-	Arsenic	ND	0.0300
	Barium	ND	0.0030
	Cadmium	ND	0.0040
	Chromium	ND	0.0100
	Iron	ND	0.2000
	Sodium	ND	0.2000
	Lead	ND	0.0400
	Selenium	ND	0.0700
	Zinc	ND	0.0300
	Silver	ND	0.0060
CCB2-	Aluminum	ND	0.0500
	Arsenic	ND	0.0300
	Barium	ND	0.0030
	Cadmium	ND	0.0040
	Chromium	ND	0.0100
	Iron	ND	0.2000
	Sodium	0.0216	0.2000
	Lead	0.0061	0.0400
	Selenium	ND	0.0700
	Zinc	ND	0.0300
	Silver	ND	0.0060
	Aluminum	ND	0.0500
	Arsenic	ND	0.0300
	Barium	ND	0.0030
	Cadmium	ND	0.0040
	Chromium	ND	0.0100
	Iron	ND	0.2000
	Sodium	0.0293	0.2000
	Lead	0.0124	0.0400
	Selenium	ND	0.0700
CCB3-	Zinc	ND	0.0300
	Silver	ND	0.0060
	Aluminum	ND	0.0500
	Arsenic	ND	0.0300
	Barium	ND	0.0030
	Cadmium	ND	0.0040
	Chromium	ND	0.0100
	Iron	ND	0.2000
	Sodium	0.0236	0.2000
	Lead	0.0028	0.0400
CCB4-	Selenium	ND	0.0700
	Zinc	ND	0.0300
	Silver	0.0010	0.0060
	Aluminum	ND	0.0500
	Arsenic	ND	0.0300
	Barium	0.0001	0.0030
	Cadmium	ND	0.0040
	Chromium	ND	0.0100
	Iron	ND	0.2000
	Sodium	0.0228	0.2000

Analysis Batch Number: ICPWA-09/06/97-118 -2
Test Identification : ICPWA-*Metals by ICP
Number of Samples : 14
Batch Data-Date/Time : 09/08/97 / 16:10:21

Sequence : DATD249

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
CCB4-	Lead	ND	0.0400
	Selenium	ND	0.0700
	Zinc	ND	0.0300

----- Result Footnotes -----

(2a) - Recovery is insignificant because sample conc. is >4x spike added.
(11) - Both Duplicate results are less than the MDL.

Groups & Samples

17561-67359	17567-67370	17569-67372	17569-67373	17570-67374	17570-67375	17581-67395	17589-67414
17589-67415	17589-67416	17589-67417	17589-67418	17597-67467	17597-67468	17597-67469	17597-67470



CHAIN OF CUSTODY RECORD

6713

Date: 8/1/97

Page 1 of 1

657 W. Maple • P. O. Box 2646 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.: 5652		Job No.	
Name: ACCOUNTS REC.		Title	
Company: ON SITE	Dept.	Company: ON SITE	
Address: P.O. BOX 2606		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No. 505 325-2432		Telefax No. 325-6256	
Sampling Location: TURNER 1A		ANALYSIS REQUESTED	
Sampler: MG/MS		BLOCK METALS DISSOLVED	
SEND INVOICE TO		Number of Containers	
REPORT TO		LAB ID	
DATE		DATE	
TIME		TIME	
MATRIX		PRES.	
970821130 MW-1		8/1/97 1130 H ₂ O cool	
9708211200 MW-2		8/1/97 1200 L	
Date/Time		Date/Time	
Relinquished by: [Signature]		Received by: [Signature]	
Date/Time		Date/Time	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Method of Shipment:		Rush	
Authorized by: (Client Signature Must Accompany Request)		24-48 Hours	
Date		10 Working Days	
Special Instructions:		Special Instructions:	

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *8-Dec-97*
COC No.: *7106*
Sample No.: *17021*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9712030930; MW-1*
Sampled by: *MG/MS* Date: *3-Dec-97* Time: *13:10*
Analyzed by: *DC* Date: *4-Dec-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.4	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	0.4	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *JAG*
Date: *12/8/97*

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OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *8-Dec-97*
COC No.: *7106*
Sample No.: *17022*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9712031000; MW-2*
Sampled by: *MG/MS* Date: *3-Dec-97* Time: *13:10*
Analyzed by: *DC* Date: *4-Dec-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>133</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Toluene</i>	<i>9</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>81</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>136</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>17</i>	<i>ug/L</i>	<i>1</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>376</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/8/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *8-Dec-97*
COC No.: *7106*
Sample No.: *17023*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9712031030; MW-3*
Sampled by: *MG/MS* Date: *3-Dec-97* Time: *13:10*
Analyzed by: *DC* Date: *4-Dec-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	1.6	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.3	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	1.8	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/10/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *8-Dec-97*
COC No.: *7106*
Sample No.: *17024*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9712031100; MW-4*
Sampled by: *MG/MS* Date: *3-Dec-97* Time: *13:10*
Analyzed by: *DC* Date: *4-Dec-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>1.1</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>1.1</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/6/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *8-Dec-97*
COC No.: *7106*
Sample No.: *17025*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Turner 1A*
Project Location: *9712031130; MW-5*
Sampled by: *MG/MS* Date: *3-Dec-97* Time: *13:10*
Analyzed by: *DC* Date: *4-Dec-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	1.4	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	1.4	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/8/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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LAB: (505) 325-1556

QUALITY ASSURANCE REPORT*for EPA Method 8020*

Date Analyzed: 4-Dec-97

Internal QC No.: 0559-STD

Surrogate QC No.: 0556-STD

Reference Standard QC No.: 0529/30-QC

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	RPD	Limit
Benzene	ppb	20.0	20.4	2	15%
Toluene	ppb	20.0	21.1	5	15%
Ethylbenzene	ppb	20.0	21.2	6	15%
m,p-Xylene	ppb	40.0	41.1	3	15%
o-Xylene	ppb	20.0	21.0	5	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit
Benzene	92	85	(39-150)	5	20%
Toluene	106	97	(46-148)	9	20%
Ethylbenzene	97	91	(32-160)	4	20%
m,p-Xylene	96	91	(35-145)	4	20%
o-Xylene	97	93	(35-145)	4	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
17021-7106	94				
17022-7106	92				
17023-7106	94				
17024-7106	93				
17025-7106	94				
				12/11/97	12/8/97

S1: Fluorobenzene

CHAIN OF CUSTODY RECORD

Date: 12-03-97

612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:

Job No.

Name	Title
Maureen Gannon	

**SEND
INVOICE
TO**

Denver Bearden

PNM Gas Services

Dept. 324-3763

603 W. Elm Street

Farminaton. NM 87401

City State Zip Albuquerque NM 87158

City State Zip Albuquerque NM 87158

Telephone No	505-848-2974	Telex No
--------------	--------------	----------

Sampling Location:

Turner ~~1A~~ 1A

Sampler:

Mikheylan / Mark Subianov

ANALYSIS REQUESTED

Number of Containers

REPORT RESULTS TO

SAMPLE IDENTIFICATION

MATRIX	PRES.
--------	-------

MATRIX PRES.

LAB ID

Relinquished by: Mauricio Jimenez

Date/Time 12/03/17

7 1515

Relinquished by:

Date/Time

Received by: 

Received by:

Date/Time 12/3/97 1315

Belinavished by:

Date/Time

Received by:

Date/Time

Method of Shipment:

Rush

24-48 Hours

10 Working Days

Special Instructions:

Authorized by: Maryanne LaRue
(Client Signature Must Accompany Request)

Results to be sent to both parties.

ON SITE

TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

February 24, 1998

Maureen Gannon
PNM Gas Services
Alevardo Square, Mail Stop 0408
Albuquerque, NM 87401
TEL: (505) 241-2974
FAX (505) 241-2340

RE: Turner 1A

Order No.: 9802006

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 2/11/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC-PID (SW8021A)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



David Cox

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Feb-98

Client: PNM Gas Services

Client Sample Info: Turner 1A

Work Order: 9802006

Client Sample ID: 9802111240; MW-1

Lab ID: 9802006-01A

Matrix: AQUEOUS

Collection Date: 2/11/98 12:40:00 PM

Project: Turner 1A

COC#: 7173

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID			SW8021A		Analyst: DC	
Benzene	ND	0.5		µg/L	1	2/18/98
Toluene	ND	0.5		µg/L	1	2/18/98
Ethylbenzene	ND	0.5		µg/L	1	2/18/98
m,p-Xylene	ND	1		µg/L	1	2/18/98
o-Xylene	ND	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	99.9	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	101.6	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	97.1	70-130		%REC	1	2/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

1 of 1

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 24-Feb-98

Client:	PNM Gas Services	Client Sample Info:	Turner 1A
Work Order:	9802006	Client Sample ID:	9802111250; MW-2
Lab ID:	9802006-02A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	2/11/98 12:50:00 PM
		COC#:	7173

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID		SW8021A		Analyst: DC		
Benzene	130	0.5		µg/L	1	2/18/98
Toluene	13	0.5		µg/L	1	2/18/98
Ethylbenzene	71	0.5		µg/L	1	2/18/98
m,p-Xylene	62	1		µg/L	1	2/18/98
o-Xylene	3.5	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	88.4	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	88.1	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	93.5	70-130		%REC	1	2/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1 of 1



OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 24-Feb-98

Client:	PNM Gas Services	Client Sample Info:	Turner 1A
Work Order:	9802006	Client Sample ID:	9802111300; MW-3
Lab ID:	9802006-03A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	2/11/98 1:00:00 PM
		COC#:	7173

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID			SW8021A		Analyst: DC	
Benzene	ND	0.5		µg/L	1	2/18/98
Toluene	ND	0.5		µg/L	1	2/18/98
Ethylbenzene	ND	0.5		µg/L	1	2/18/98
m,p-Xylene	ND	1		µg/L	1	2/18/98
o-Xylene	ND	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	99.9	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	100.9	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	97.9	70-130		%REC	1	2/18/98

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

1 of 1

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 24-Feb-98

Client:	PNM Gas Services	Client Sample Info:	Turner 1A
Work Order:	9802006	Client Sample ID:	9802111320: MW-4
Lab ID:	9802006-04A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	2/11/98 1:20:00 PM
		COC#:	7173

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID		SW8021A		Analyst: DC		
Benzene	7.4	0.5		µg/L	1	2/18/98
Toluene	ND	0.5		µg/L	1	2/18/98
Ethylbenzene	ND	0.5		µg/L	1	2/18/98
m,p-Xylene	ND	1		µg/L	1	2/18/98
o-Xylene	ND	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	99.4	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	101.4	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	97.6	70-130		%REC	1	2/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499



OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 24-Feb-98

Client:	PNM Gas Services	Client Sample Info:	Turner 1A
Work Order:	9802006	Client Sample ID:	9802111310; MW-5
Lab ID:	9802006-05A	Matrix:	AQUEOUS
Project:	Turner 1A	Collection Date:	2/11/98 1:10:00 PM
		COC#:	7173

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID		SW8021A		Analyst: DC		
Benzene	130	0.5		µg/L	1	2/18/98
Toluene	14	0.5		µg/L	1	2/18/98
Ethylbenzene	70	0.5		µg/L	1	2/18/98
m,p-Xylene	66	1		µg/L	1	2/18/98
o-Xylene	3.9	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	91.8	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	89.8	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	93.8	70-130		%REC	1	2/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1 of 1

On Site Technologies, LTD.

Date: 24-Feb-98

CLIENT: PNM Gas Services

Work Order: 9802006

Project: Turner 1A

QC SUMMARY REPORT

Method Blank

Sample ID: MB1 W	Batch ID: GC-1_980218	Test Code: SW8021A	Units: µg/L	Analysis Date: 2/18/98	Prep Date:						
Client ID:	9802006	Run ID: GC-1_980218A		SeqNo: 257							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1623		0.5								J
Ethylbenzene	ND		0.5								
m,p-Xylene	ND		1								
o-Xylene	ND		0.5								
Toluene	.0581		0.5								J

Qualifiers:

NID - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 24-Feb-98

CLIENT: PNM Gas Services
Work Order: 9802006
Project: Turner 1A

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9802002-03AMS		Batch ID: GC-1_980218		Test Code: SW8021A		Units: µg/L		Analysis Date: 2/18/98		Prep Date:		
Client ID:		9802006		Run ID: GC-1_980218A				SeqNo: 276				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		3055	10	800	2193	107.8%	57	128				
Ethylbenzene		915	10	800	73.53	105.2%	78	107				
m,p-Xylene		2035	20	1600	425.1	100.6%	67	118				
o-Xylene		898.6	10	800	38.59	107.5%	78	107				
Toluene		856	10	800	3.18	106.6%	74	116				

S

Sample ID: 9802002-03AMSD	Batch ID: GC-1_980218	Test Code: SW8021A	Units: µg/L	Analysis Date: 2/18/98		Prep Date:					
Client ID:	9802006	Run ID: GC-1_980218A		SeqNo: 277							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2927	10	800	2193	91.8%	57	128	3055	4.3%	12	
Ethylbenzene	899	10	800	73.53	103.2%	78	107	915	1.8%	11	
m,p-Xylene	1984	20	1600	425.1	97.4%	67	118	2035	2.5%	10	
o-Xylene	842.4	10	800	38.59	100.5%	78	107	898.6	6.5%	14	
Toluene	808	10	800	3.18	100.6%	74	116	856	5.8%	14	

Qualifiers: NID - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 24-Feb-98

CLIENT: PNM Gas Services
Work Order: 9802006
Project: Turner 1A

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980218	Test Code: SW8021A	Units: µg/L	Analysis Date: 2/18/98		Prep Date:				
Client ID:		9802006	Run ID: GC-1_980218A		SeqNo: 259						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.54	0.5	40	0.1623	103.4%	84	114				
Ethylbenzene	44.37	0.5	40	0	110.9%	86	118				
m,p-Xylene	84.33	1	80	0	105.4%	50	150				
o-Xylene	43.43	0.5	40	0	108.6%	49	147				
Toluene	42.69	0.5	40	0.0581	106.6%	87	120				

Qualifiers: NID - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 24-Feb-98

CLIENT: PNM Gas Services
Work Order: 9802006
Project: Turner 1A

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID:	CCV1 QC0529/30	Batch ID:	GC-1_980218	Test Code:	SW8021A	Units:	µg/L	Analysis Date:	2/18/98	Prep Date:
Client ID:	9802006	Run ID:	GC-1_980218A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 258
Analyte	Result									
Benzene	21.28			0.5	20	0	106.4%	85	115	
Ethylbenzene	22.72			0.5	20	0	113.6%	85	115	
m,p-Xylene	42.78			1	40	0	107.0%	85	115	
o-Xylene	22.12			0.5	20	0	110.6%	85	115	
Toluene	21.7			0.5	20	0	108.5%	85	115	
1,4-Difluorobenzene	105.5			0	100	0	105.5%	70	130	
4-Bromochlorobenzene	95.89			0	100	0	95.9%	70	130	
Fluorobenzene	99.12			0	100	0	99.1%	70	130	

Sample ID:	CCV2 QC0529/30	Batch ID:	GC-1_980218	Test Code:	SW8021A	Units:	µg/L	Analysis Date:	2/18/98	Prep Date:
Client ID:	9802006	Run ID:	GC-1_980218A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 267
Analyte	Result									
Benzene	21.01			0.5	20	0	105.0%	85	115	
Ethylbenzene	22.35			0.5	20	0	111.7%	85	115	
m,p-Xylene	42			1	40	0	105.0%	85	115	
o-Xylene	21.71			0.5	20	0	108.5%	85	115	
Toluene	21.42			0.5	20	0	107.1%	85	115	
1,4-Difluorobenzene	100.8			0	100	0	100.8%	70	130	
4-Bromochlorobenzene	97.87			0	100	0	97.9%	70	130	
Fluorobenzene	99.21			0	100	0	99.2%	70	130	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: PNM Gas Services

Work Order: 9802006

Project: Turner 1A

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980218		Test Code: SW8021A		Units: µg/L		Analysis Date: 2/18/98			Prep Date:	
Client ID:		9802006		Run ID:		GC-1_980218A		SeqNo:		279		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	21.04	0.5	20	0	105.2%	85	115					
Ethylbenzene	22.47	0.5	20	0	112.4%	85	115					
m,p-Xylene	42.3	1	40	0	105.8%	85	115					
o-Xylene	22.07	0.5	20	0	110.3%	85	115					
Toluene	21.51	0.5	20	0	107.5%	85	115					
1,4-Difluorobenzene	100.6	0	100	0	100.6%	70	130					
4-Bromochlorobenzene	95.78	0	100	0	95.8%	70	130					
Fluorobenzene	99.07	0	100	0	99.1%	70	130					

Qualifiers:

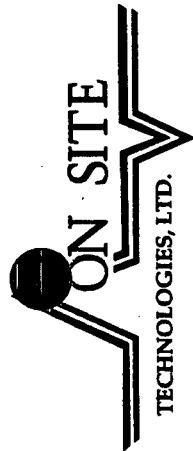
ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



CHAIN OF CUSTODY RECORD

612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:

Job No.

SEND
INVOICE
TO

Name Denver Bearden

Company PNM Gas Services

Dept. 324-3763

Address 603 W. Elm Street

City, State, Zip Farmington, NM 87401

REPORT
RESULTS TO

Name Maureen Gannon

Company PNM Gas Services

Mailing Address Alverado Square, Mail Stop 0408

City, State, Zip Albuquerque, NM 87158

Telephone No. 505-848-2974

Telefax No.

Sampling Location:

Turner 1A

Sampler:

MS RD RB

Number of
Containers

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION

MATRIX PRES.

SAMPLE
DATE TIME

9802111240

MW-1

9802111250

MW-2

9802111300

MW-3

9802111320

MW-4

9802111310

MW-5

LAB ID

11-011-01A

11-011-01A

11-011-01A

11-011-01A

11-011-01A

Relinquished by:

Date/Time 2/11/93 1600

Relinquished by:

Date/Time

Relinquished by:

Date/Time

Method of Shipment:

Hand Delivered

Authorized by:

Date

2/11/93

(Client Signature Must Accompany Request)

Rush

24-48 Hours

10 Working Days

Special Instructions:

Results to be sent
to both parties.

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client