3R - 345

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

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 3E
Zachry 18E

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

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

PNMGS Well Site: **Turner 3**

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:** F
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 4
Full Suite- Groundwater Results: attached
Analytical Results: attached

Activities for Previous Year:

PNM installed three groundwater monitoring wells at the Turner 1A well site on July 28, 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).

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. All wells are now below WQCC standard or non-detectable after three quarters of monitoring. The water quality analysis in MW-1 and -2 showed metals and cations/anions to be present in very low or non-detectable concentrations.

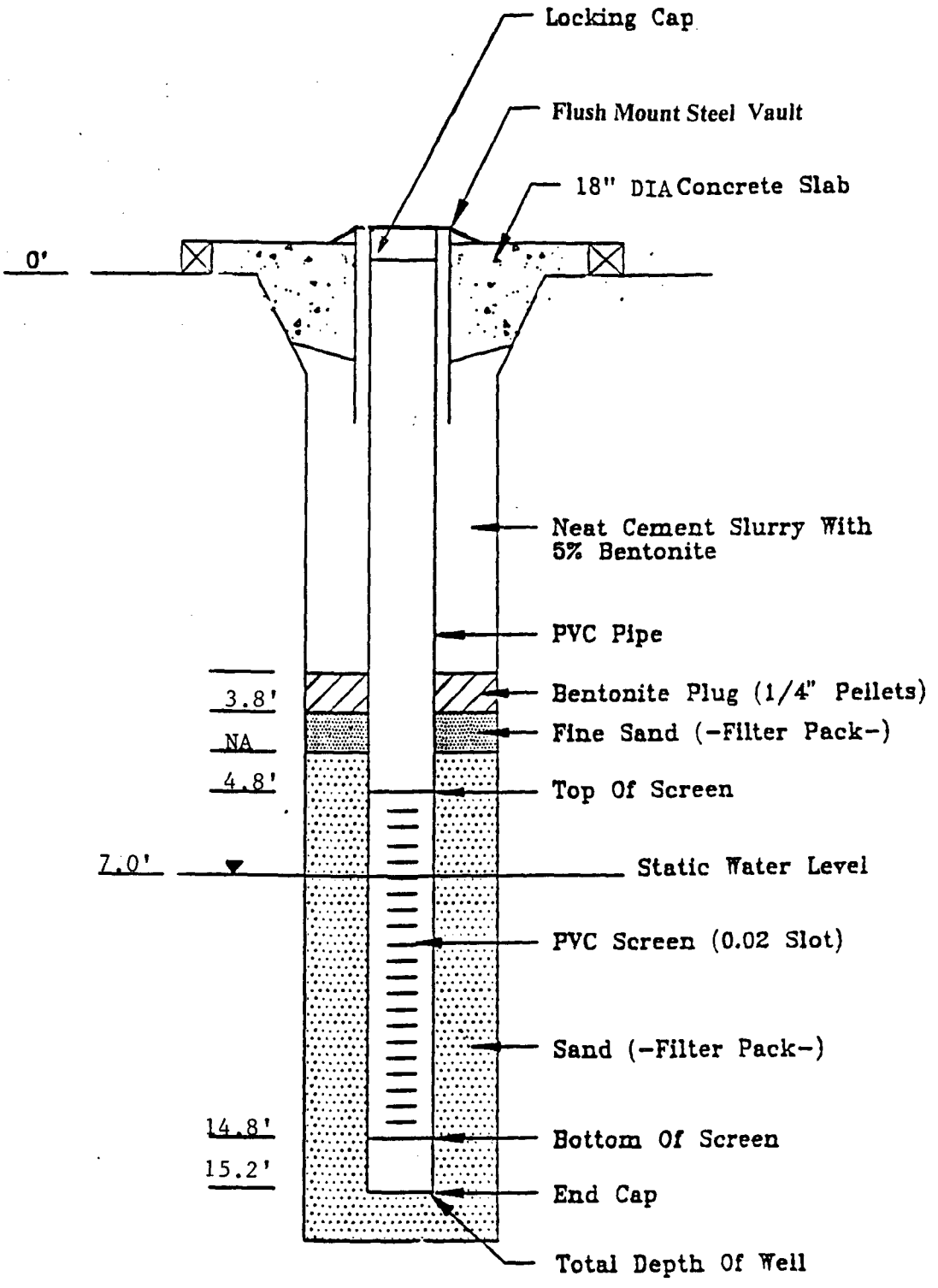
Figures 3, 4 and 5 provide groundwater contour maps for August and December 1997 and February 1998, respectively. Groundwater beneath the site travels in northern direction. Figure 6 is a hydrograph of the site. Water levels have decreased by between 1 and 3 feet at the site. Groundwater elevations are strongly influenced by the Animas River which borders the northern boundary of the site.

Future Actions:

PNM will continue to monitor groundwater elevations and conduct quarterly groundwater sampling at the Turner 3.

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	

PNM Gas Services

Turner 3

Figure 1

Well Completion Diagram

Figure 2. Turner 3 Site Map & Analytical Results (Concentrations in ppb)

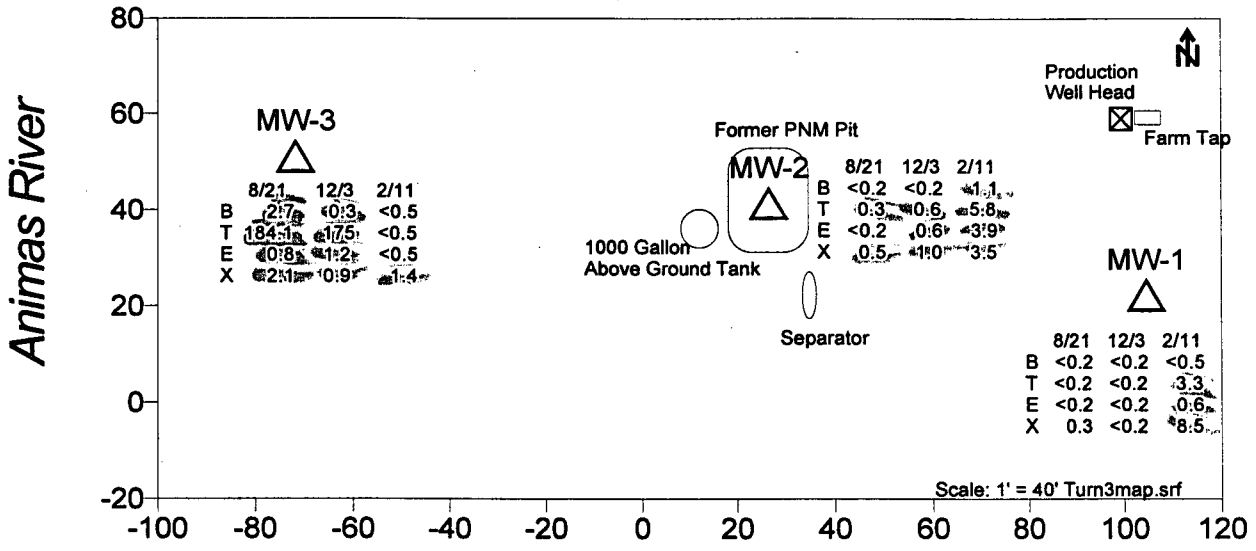


Figure 3. Turner 3 Groundwater Contour Map (August 21, 1997)

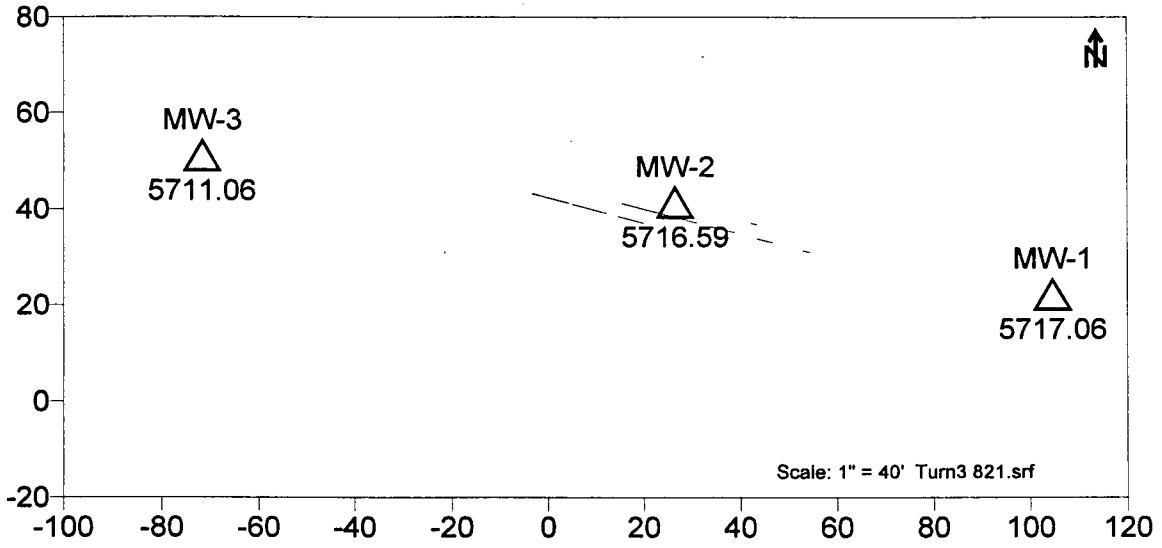


Figure 4. Turner 3 Groundwater Contour Map (December 3, 1997)

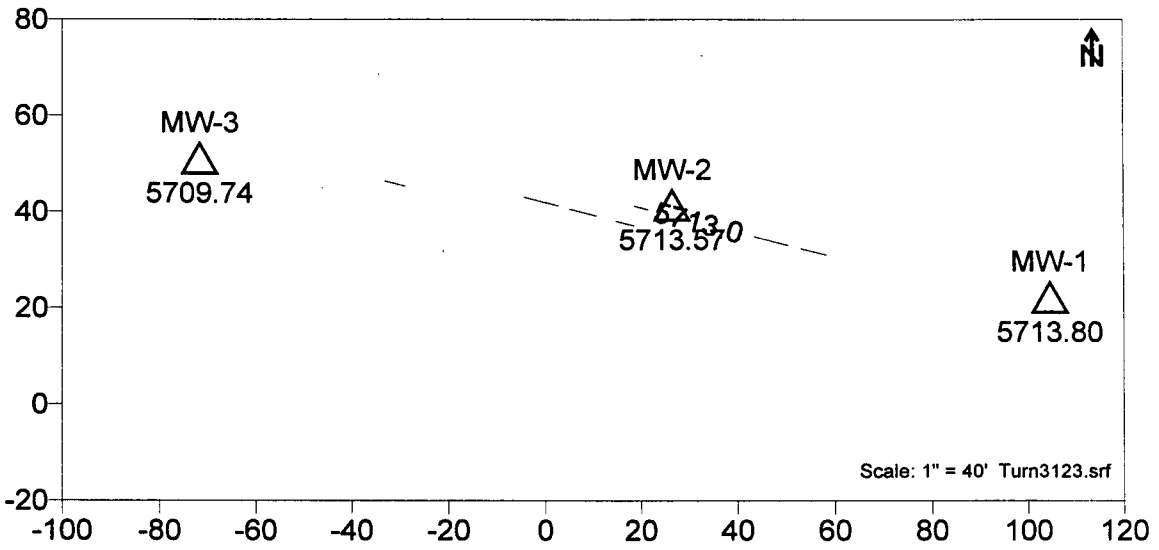


Figure 5. Turner 3 Groundwater Contour Map (February 11, 1998)

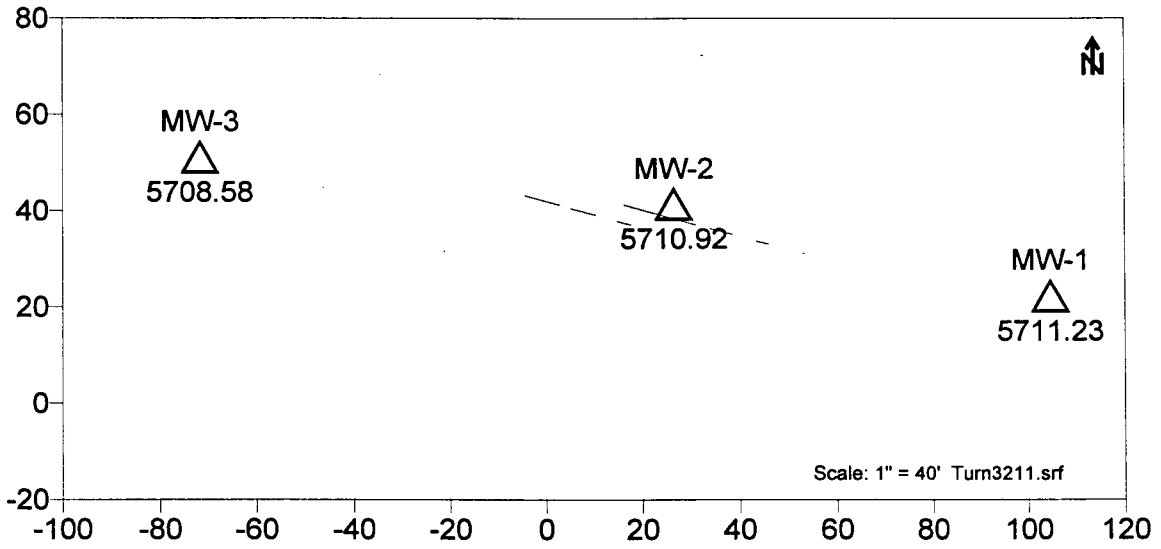


Figure 6. Turner 3 Hydrograph
(Water Level vs Time)

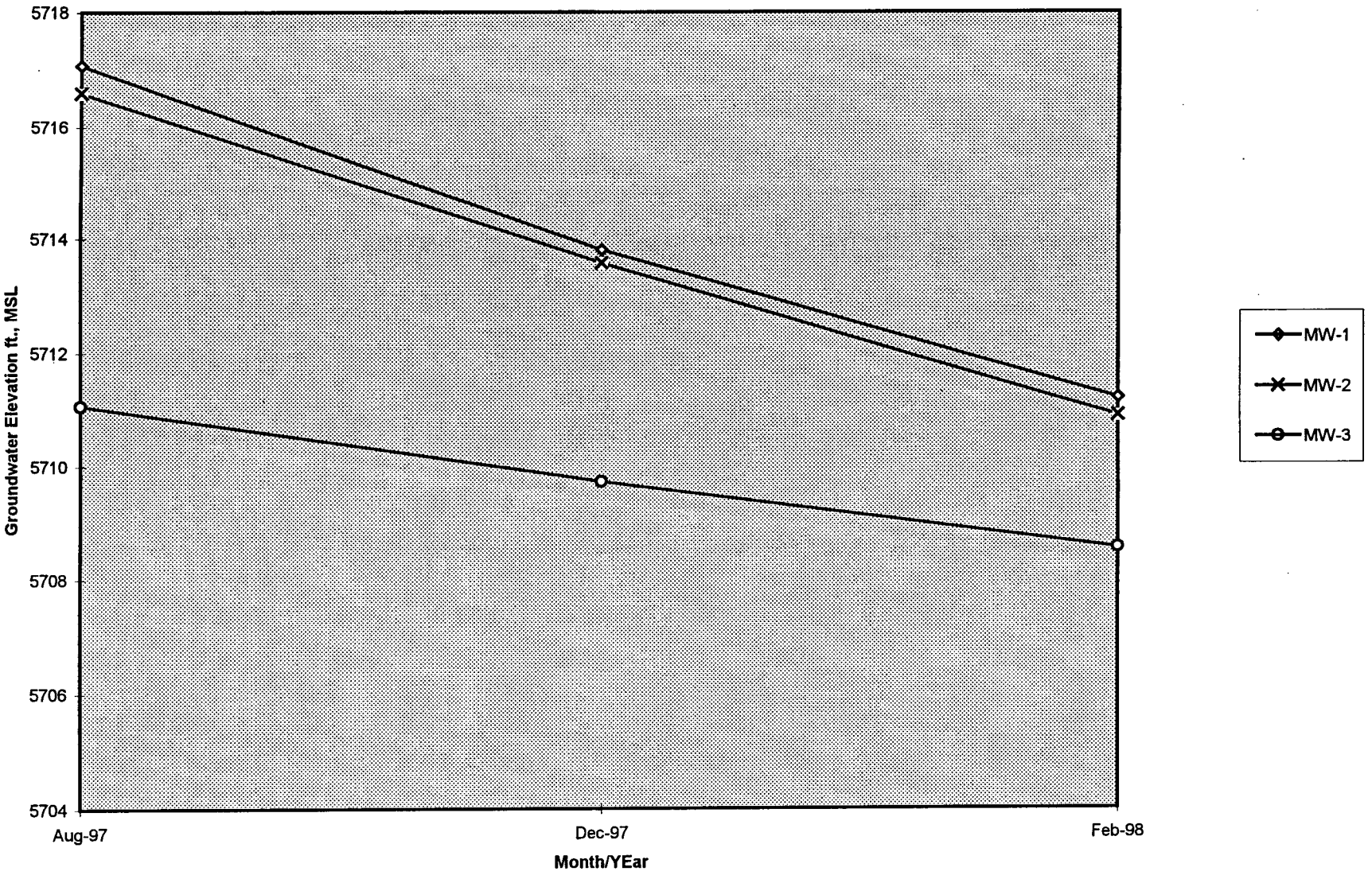


Table 1. TURNER 3 GROUNDWATER SAMPLING RESULTS, mg/l (8/21/97)

Constituent	WQCC Stds.	MW-1	MW-2	MW-3	MW-4 (Dup - MW-2)
B	0.01	<0.0002	<0.0002	0.0027	<0.0002
T	0.75	<0.0002	0.0003	0.1841	0.0005
E	0.75	<0.0002	<0.0002	0.0008	<0.0002
X	0.62	0.0003	0.0005	0.0021	0.0007
PAHs	0.03	NA	NA	NA	NA
Metals					
As	0.1	<0.15	<0.15	NA	NA
Ba	1	0.09	0.11	NA	NA
Cd	0.01	<0.020	<0.020	NA	NA
Cr	0.05	<0.050	<0.050	NA	NA
Pb	0.05	<0.20	<0.20	NA	NA
Se	0.05	<0.35	<0.35	NA	NA
Ag	0.05	<0.030	<0.030	NA	NA
Hg	0.002	<0.0005	<0.0005	NA	NA
Cations/Anions					
Na	NA	18	18	NA	NA
Ca	NA	75	70	NA	NA
Mg	NA	15.8	17.4	NA	NA
K	NA	4.0	9.2	NA	NA
Cl	NA	14.2	16.9	NA	NA
SO4	NA	67	75	NA	NA
CO3	NA	<1	<1	NA	NA
HCO3	NA	288	323	NA	NA
OH	NA	<1	<1	NA	NA
Cation/Anion Balance					
Difference Cation-Anion	NA	0.59	1.39	NA	NA
Total Cation-Anion	NA	12.43	13.25	NA	NA
% Difference	NA	4.7	10.5	NA	NA
TDS, calc	NA	481	529	NA	NA
TDS, meas	NA	422	466	NA	NA
Hardness as CaCO3	NA	252	245	NA	NA

NA: Not Applicable
BDL: Below Detection Limit
NS: Not Sampled
** Out of Acceptable Range, % Diff. +/-5
P Free Product

s:\gaspits\turnr3tb.doc

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	27-Aug-97
Company:	*PNM Gas Services*	COC No.:	*5651*
Address:	*603 W. Elm*	Sample No.:	*15848*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9708211400; MW-1***				
Sampled by:	MG/MS	Date:	21-Aug-97	Time:	14:00
Analyzed by:	DC	Date:	25-Aug-97		
Sample Matrix:	*Liquid*				

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

ND - Not Detected at Limit of Quantitation

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

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

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	12-Sep-97
Company:	*PNM Gas Services*	COC No.:	*5651*
Address:	*603 W. Elm*	Sample ID.:	*15848*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9708211400; MW1***				
Sampled by:	MS/MG	Date:	21-Aug-97	Time:	14:00
Analyzed by:	HR	Date:	3-Sep-97		

Laboratory Analysis

Parameter		Results as Received	Unit of Measure		Results as Received	Unit of Measure	
Cations							
Sodium	*Na*	18	mg/L		0.77	me/L	
Calcium	*Ca*	75	mg/L		3.74	me/L	
Magnesium	*Mg*	15.8	mg/L		1.30	me/L	
Potassium	*K*	4.0	mg/L		0.10	me/L	
Anions							
Chloride	*Cl*	14.2	mg/L		0.40	me/L	
Sulfate	*SO4*	67	mg/L		1.39	me/L	
Carbonate	*CO3 as CaCO3*	<1	mg/L		<0.01	me/L	
Bicarbonate	*HCO3 as CaCO3*	288	mg/L		4.72	me/L	
Hydroxide	*OH as CaCO3*	<1	mg/L		<0.01	me/L	
Total Dissolved Solids Calculated, Sum of Cation/Anion		481	mg/L				
Total Dissolved Solids Dried @ 180 C		422	mg/L				
pH		7.35					
Conductivity @ 25 C		670	uS/cm				
Total Hardness as CaCO3		252	mg/L				

Cation-Anion Balance

0.59 *Difference Cation-Anion, me L*

12.43 *Total Cation-Anion, me L*

4.7 *% Difference Cation-Anion*

Comments

Approved by:

Date: 9/12/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	27-Aug-97
Company:	*PNM Gas Services*	COC No.:	*5651*
Address:	*603 W. Elm*	Sample No.:	*15849*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9708211430; MW-2***				
Sampled by:	MG/MS	Date:	21-Aug-97	Time:	14:30
Analyzed by:	DC	Date:	25-Aug-97		
Sample Matrix:	*Liquid*				

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/L	0.2	ug/L
Toluene	0.3	ug/L	0.2	ug/L
Ethylbenzene	ND	ug/L	0.2	ug/L
m,p-Xylene	0.5	ug/L	0.2	ug/L
o-Xylene	ND	ug/L	0.2	ug/L
TOTAL	0.8	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By:

Date: 8/29/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	12-Sep-97
Company:	*PNM Gas Services*	COC No.:	*5651*
Address:	*603 W. Elm*	Sample ID.:	*15849*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9708211430; MW-2***				
Sampled by:	MS/MG	Date:	21-Aug-97	Time:	14:30
Analyzed by:	HR	Date:	3-Sep-97		

Laboratory Analysis

Parameter		Results as Received	Unit of Measure		Results as Received	Unit of Measure	
Cations							
Sodium	*Na*	18	mg/L		0.79	me/L	
Calcium	*Ca*	70	mg/L		3.47	me/L	
Magnesium	*Mg*	17.4	mg/L		1.43	me/L	
Potassium	*K*	9.2	mg/L		0.24	me/L	
Anions							
Chloride	*Cl*	16.9	mg/L		0.48	me/L	
Sulfate	*SO4*	75	mg/L		1.55	me/L	
Carbonate	*CO3 as CaCO3*	< 1	mg/L		< 0.01	me/L	
Bicarbonate	*HCO3 as CaCO3*	323	mg/L		5.29	me/L	
Hydroxide	*OH as CaCO3*	< 1	mg/L		< 0.01	me/L	
Total Dissolved Solids Calculated, Sum of Cation/Anion		529	mg/L				
Total Dissolved Solids Dried @ 180 C		466	mg/L				
pH		7.29					
Conductivity @ 25 C		739	uS/cm				
Total Hardness as CaCO3		245	mg/L				

Cation-Anion Balance

1.39 *Difference Cation-Anion, me L*

13.25 *Total Cation-Anion, me L*

10.5 *% Difference Cation-Anion*

Comments

Approved by:

Date: 9/12/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	27-Aug-97
Company:	*PNM Gas Services*	COC No.:	*5651*
Address:	*603 W. Elm*	Sample No.:	*15850*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9708211500; MW-3***				
Sampled by:	MG/MS	Date:	21-Aug-97	Time:	15:00
Analyzed by:	DC	Date:	25-Aug-97		
Sample Matrix:	*Liquid*				

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	2.7	ug/L	0.2	ug/L
Toluene	184.1	ug/L	1.0	ug/L
Ethylbenzene	0.8	ug/L	0.2	ug/L
m,p-Xylene	1.9	ug/L	0.2	ug/L
o-Xylene	0.2	ug/L	0.2	ug/L
TOTAL	189.7	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By:

Date: 8/28/97

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-15

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	27-Aug-97
Company:	*PNM Gas Services*	COC No.:	*5651*
Address:	*603 W. Elm*	Sample No.:	*15851*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9708211530; MW-4***				
Sampled by:	MG/MS	Date:	21-Aug-97	Time:	15:30
Analyzed by:	DC	Date:	25-Aug-97		
Sample Matrix:	*Liquid*				

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/L	0.2	ug/L
Toluene	0.5	ug/L	0.2	ug/L
Ethylbenzene	ND	ug/L	0.2	ug/L
m,p-Xylene	0.5	ug/L	0.2	ug/L
o-Xylene	0.2	ug/L	0.2	ug/L
TOTAL	1.2	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By:
Date: 8/28/97

OFF: (505) 325-5667

ON SITE 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)	
15848-5651	96				
15849-5651	96				
15850-5651	96				
15851-5651	96				
				JMP	DE
				8/29/97	8/28/97

S1: *Flourobenzene*

OFF: (505) 325-5667

ON SITE

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

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, SO4	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, SO4	LF-Blank	<1	mg/L
Conductivity	LF-Blank	<2	uS/cm

9/12/97 9/15/97

Mountain States Analytical, Inc.

September 11, 1997

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

Reference:
Project: Turner 3
MSAI Group: 17569

Dear Mr. Cox:

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

15848-5651 Dissolved 15849-5651 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

RECD SEP 22 1997 (IX)

Mountain States Analytical, Inc.

The Quality Solution

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

Attn: Mr. David Cox
Project: Turner 3 9708211400; mw1-1 (IX)

Sample ID: 15848-5651 Dissolved
Matrix: Waste Water

MSAI Sample: 67372
MSAI Group: 17569
Date Reported: 09/11/97
Discard Date: 10/11/97
Date Submitted: 08/22/97
Date Sampled: 08/21/97
Collected by:
Purchase Order: 5651
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		
[illegible]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	0.09	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.
The Quality Solution

On Site Technologies, Ltd.

MSAI Sample: 67372
MSAI Group: 17569

Sample ID: 15848-5651 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

Mountain States Analytical, Inc.
The Quality Solution

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

Attn: Mr. David Cox
Project: Turner 3 970821 1430; MW-2 (re)

Sample ID: 15849-5651 Dissolved
Matrix: Waste Water

MSAI Sample: 67373
MSAI Group: 17569
Date Reported: 09/11/97
Discard Date: 10/11/97
Date Submitted: 08/22/97
Date Sampled: 08/21/97
Collected by:
Purchase Order: 5651
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	ND	mg/l	0.15
7246	Barium by ICP, w/ww, 6010A Method: SW-846 6010A	0.11	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.
The Quality Solution

On Site Technologies, Ltd.

MSAI Sample: 67373
MSAI Group: 17569

Sample ID: 15849-5651 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

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/09/97
18:13:31
Group: 17569

dt
09/09/97

Analysis Batch Number: 0259B-09/03/97-107 -1
Test Identification : 0259B-Mercury by CVAA, w/ww, 7470 Sequence : 0259B-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

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

MSD

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS LOWER	QC LIMITS 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

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

CCV#	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS LOWER	QC LIMITS UPPER
CCV-	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

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/09/97
18:13:38
Group: 17569

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

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

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS LOWER	QC LIMITS 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

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS LOWER	QC LIMITS 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

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/09/97
18:13:42
Group: 17569

lysis Batch Number: ICPWA-09/06/97-118 -2
t 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 LOWER	QC LIMITS UPPER
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

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS LOWER	QC LIMITS 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

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/09/97
18:13:46
Group: 17569

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

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS LOWER	QC LIMITS 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

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/09/97
18:13:49
Group: 17569

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
CCB2-	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	0.0216	0.2000
	Lead	0.0061	0.0400
	Selenium	ND	0.0700
	Zinc	ND	0.0300
[illegible]-	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
	Zinc	ND	0.0300
CCB3-	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
	Selenium	ND	0.0700
	Zinc	ND	0.0300
CCB4-	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

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

09/09/97
18:13:52
Group: 17558

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

6712

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 8/21/97

Page 1 of 1

Purchase Order No.: 5651 | Job No.

SEND INVOICE TO
Name: ACCOUNTS REC.
Company: P.O. BOX 2606 | Dept.
Address:
City, State, Zip:

REPORT RESULTS TO
Name: DAVID COX | Title:
Company: ON SITE
Mailing Address: 612 E. MURRAY
City, State, Zip: FARMINGTON, NM 87401
Telephone No.: 505 325-2432 | Telefax No.: 325-6256

Sampling Location: TURNER 3

Sampler: MG/MS

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	WQCC METALS, DISSOLVED	LAB ID
970821 1400 MW-1	8/21/97	1400	H_2O	COOL	1	✓	15848-5651
970821 1430 MW-2	8/21/97	1430	"	"	1	✓	15849-5651

ANALYSIS REQUESTED

Relinquished by: [signature]	Date/Time 8/21/97 1600	Received by: Debra Burns	Date/Time 08/22/97 1220
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:
			NOT FILTERED YET

Distribution White On Site Yellow LAB Pink Sampler Goldenrod Client

CHAIN OF CUSTODY RECORD

5651

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 8-21-97

Page 1 of 1

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** | Title
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 3

Sampler: Mark Sikkinen / Maureen Gannon

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX 8020	MAJOR CATIONS & ANIONS + WQCC METALS								LAB ID
970821400 MW1	~~H2O~~ 8/21/97	-	H2O	HCl	4	X	X	X							15848-5651
970821430 MW2	↓	-	↓	↓	4	X	X	X							15849
970821500 MW3	↓	-	↓	↓	2	X									15850
970821530 MW4	~~H2O~~ 8/21/97	-	H2O	HCl	2	X									15851

Relinquished by: Maureen Gannon | Date/Time 8/21/97 1515 | Received by: | Date/Time 8/21/97 1515

Relinquished by: | Date/Time | Received by: | Date/Time

Relinquished by: | Date/Time | Received by: | Date/Time

Method of Shipment:

Authorized by: Maureen Gannon Date 8/21/97
(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

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	8-Dec-97
Company:	*PNM Gas Services*	COC No.:	*7107*
Address:	*603 W. Elm*	Sample No.:	*17026*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***			
Project Location:	***9712031230; MW-1***			
Sampled by:	MG/MS	Date:	3-Dec-97 Time:	13:15
Analyzed by:	DC	Date:	4-Dec-97	
Sample Matrix:	*Liquid*			

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

ND - Not Detected at Limit of Quantitation

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

Approved By: DAF

Date: 12/8/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	8-Dec-97
Company:	*PNM Gas Services*	COC No.:	*7107*
Address:	*603 W. Elm*	Sample No.:	*17027*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9712031300; MW-2***				
Sampled by:	MG/MS	Date:	3-Dec-97	Time:	13:15
Analyzed by:	DC	Date:	4-Dec-97		
Sample Matrix:	*Liquid*				

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/L	0.2	ug/L
Toluene	0.6	ug/L	0.2	ug/L
Ethylbenzene	0.6	ug/L	0.2	ug/L
m,p-Xylene	1.0	ug/L	0.2	ug/L
o-Xylene	ND	ug/L	0.2	ug/L
TOTAL	2.3	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By:
Date: 12/8/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	8-Dec-97
Company:	*PNM Gas Services*	COC No.:	*7107*
Address:	*603 W. Elm*	Sample No.:	*17028*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9712031330; MW-3***				
Sampled by:	MG/MS	Date:	3-Dec-97	Time:	13:15
Analyzed by:	DC	Date:	5-Dec-97		
Sample Matrix:	*Liquid*				

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	0.3	ug/L	0.2	ug/L
Toluene	175	ug/L	1	ug/L
Ethylbenzene	1.2	ug/L	0.2	ug/L
m,p-Xylene	0.9	ug/L	0.2	ug/L
o-Xylene	ND	ug/L	0.2	ug/L
TOTAL	177.1	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By:
Date: 12/9/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Denver Bearden*	Date:	8-Dec-97
Company:	*PNM Gas Services*	COC No.:	*7107*
Address:	*603 W. Elm*	Sample No.:	*17029*
City, State:	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***PNM Gas Services - Turner 3***				
Project Location:	***9712031400; MW-4***				
Sampled by:	MG/MS	Date:	3-Dec-97	Time:	13:15
Analyzed by:	DC	Date:	5-Dec-97		
Sample Matrix:	*Liquid*				

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	0.3	ug/L	0.2	ug/L
Toluene	174	ug/L	1	ug/L
Ethylbenzene	1.1	ug/L	0.2	ug/L
m,p-Xylene	0.9	ug/L	0.2	ug/L
o-Xylene	ND	ug/L	0.2	ug/L
TOTAL	176.4	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By:

Date: 12/9/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

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)	
17026-7107	94				
17027-7107	96				
				12/11/97	12/8/97

S1: *Flourobenzene*

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 5-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	20.3	2	15%
Toluene	ppb	20.0	20.9	4	15%
Ethylbenzene	ppb	20.0	21.0	5	15%
m,p-Xylene	ppb	40.0	40.4	1	15%
o-Xylene	ppb	20.0	20.7	4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit
Benzene	92	83	(39-150)	1	20%
Toluene	88	79	(46-148)	2	20%
Ethylbenzene	91	88	(32-160)	2	20%
m,p-Xylene	91	86	(35-145)	2	20%
o-Xylene	90	88	(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)	
17028-7107	94				
17029-7107	94				
				12/11/97	12/9/97

S1: Flourobenzene

ON SITE TECHNOLOGIES, LTD.

CHAIN OF CUSTODY RECORD

Date: 12-03-97

Page: 1 of 1

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	Title
	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 3

Sampler: Maureen Gannon / Mark Sikkenga

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX 8020	LAB ID
971203 1230 MW1	12/03/97	1315	H2O	HCl	2	X	17026-7107
971203 1300 MW2	↓	↓	↓	↓	2	X	17027
971203 1330 MW3	↓	↓	↓	↓	2	X	17028
971203 1400 MW4	12/03/97	1315	H2O	HCl	2	X	17029

Relinquished by: Maureen Gannon	Date/Time 12/03/97 1320	Received by:	Date/Time 12/3/97 1320
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: Maureen Gannon Date 12-03-97
(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

ON SITE

OFF: (505) 325-5667 LAB: (505) 325-1556

TECHNOLOGIES, LTD.

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 3 Order No.: 9802005

Dear Maureen Gannon,

On Site Technologies, LTD. received 4 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

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 3
Work Order:	9802005	**Client Sample ID:**	9802111140; MW-1
Lab ID:	9802005-01A **Matrix:** AQUEOUS	**Collection Date:**	2/11/98 11:40:00 AM
Project:	Turner 3	**COC#:**	7172

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID		**SW8021A**				Analyst: **DC**
Benzene	ND	0.5		µg/L	1	2/19/98
Toluene	3.3	0.5		µg/L	1	2/19/98
Ethylbenzene	0.6	0.5		µg/L	1	2/19/98
m,p-Xylene	6.6	1		µg/L	1	2/19/98
o-Xylene	1.9	0.5		µg/L	1	2/19/98
Surr: Fluorobenzene	99.5	70-130		%REC	1	2/19/98
Surr: 1,4-Difluorobenzene	101.0	70-130		%REC	1	2/19/98
Surr: 4-Bromochlorobenzene	96.3	70-130		%REC	1	2/19/98

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

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ON SITE
TECHNOLOGIES, LTD.
OFF: (505) 325-5667
LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Feb-98*

Client:	PNM Gas Services	**Client Sample Info:**	Turner 3
Work Order:	9802005	**Client Sample ID:**	9802111125; MW-2
Lab ID:	9802005-02A **Matrix:** AQUEOUS	**Collection Date:**	2/11/98 11:25:00 AM
Project:	Turner 3	**COC#:**	7172

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID		**SW8021A**				Analyst: **DC**
Benzene	1.1	0.5		µg/L	1	2/18/98
Toluene	5.8	0.5		µg/L	1	2/18/98
Ethylbenzene	3.9	0.5		µg/L	1	2/18/98
m,p-Xylene	3.0	1		µg/L	1	2/18/98
o-Xylene	0.5	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	101.8	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	99.3	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	95.8	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

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ON SITE
TECHNOLOGIES, LTD.
OFF: (505) 325-5667 LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Feb-98*

Client:	PNM Gas Services	**Client Sample Info:**	Turner 3
Work Order:	9802005	**Client Sample ID:**	9802111200; MW-3
Lab ID:	9802005-03A **Matrix:** AQUEOUS	**Collection Date:**	2/11/98 12:00:00 PM
Project:	Turner 3	**COC#:**	7172

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	1.4	1		µg/L	1	2/18/98
o-Xylene	ND	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	99.8	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	101.4	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	97.3	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

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ON SITE
TECHNOLOGIES, LTD.
OFF: (505) 325-5667 LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Feb-98*

Client:	PNM Gas Services	**Client Sample Info:**	Turner 3
Work Order:	9802005	**Client Sample ID:**	9802111150; MW-4
Lab ID:	9802005-04A **Matrix:** AQUEOUS	**Collection Date:**	2/11/98 11:50:00 AM
Project:	Turner 3	**COC#:**	7172

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC-PID		**SW8021A**				Analyst: **DC**
Benzene	1.0	0.5		µg/L	1	2/18/98
Toluene	5.5	0.5		µg/L	1	2/18/98
Ethylbenzene	4.4	0.5		µg/L	1	2/18/98
m,p-Xylene	3.2	1		µg/L	1	2/18/98
o-Xylene	0.6	0.5		µg/L	1	2/18/98
Surr: Fluorobenzene	101.8	70-130		%REC	1	2/18/98
Surr: 1,4-Difluorobenzene	99.0	70-130		%REC	1	2/18/98
Surr: 4-Bromochlorobenzene	96.4	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

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On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

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: **9802005** 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:

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

On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

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: **9802005** 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				S
Toluene	856	10	800	3.18	106.6%	74	116				

LCS ✓ MC 2/24/98

Sample ID: **9802002-03AMSD** Batch ID: **GC-1_980218** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/18/98** Prep Date:

Client ID: **9802005** 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:

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

On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

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: **9802005** 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:

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

On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

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: **9802005** Run ID: **GC-1_980218A** SeqNo: **258**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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: **9802005** Run ID: **GC-1_980218A** SeqNo: **267**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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: 9802005
Project: Turner 3

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: **9802005** 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

On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

QC SUMMARY REPORT

Method Blank

Sample ID: **MB1 W** Batch ID: **GC-1_980219** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/19/98** Prep Date:

Client ID: **9802005** Run ID: **GC-1_980219A** SeqNo: **280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1628	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
o-Xylene	ND	0.5									
Toluene	.0594	0.5									J

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

On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **9802009-04AMS** Batch ID: **GC-1_980219** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/19/98** Prep Date:

Client ID: **9802005** Run ID: **GC-1_980219A** SeqNo: **297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	251.8	2.5	200	44.9	103.5%	57	128				
Ethylbenzene	391	2.5	200	176.4	107.3%	78	107				S
m,p-Xylene	420	5	400	4.002	104.0%	67	118				
o-Xylene	221.7	2.5	200	3.372	109.2%	78	107				S
Toluene	216.8	2.5	200	5.65	105.6%	74	116				

LCS @ 2/24/98 ✓

Sample ID: **9802009-04AMSD** Batch ID: **GC-1_980219** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/19/98** Prep Date:

Client ID: **9802005** Run ID: **GC-1_980219A** SeqNo: **298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	240.2	2.5	200	44.9	97.6%	57	128	251.8	4.7%	12	
Ethylbenzene	368.8	2.5	200	176.4	96.2%	78	107	391	5.8%	11	
m,p-Xylene	396.8	5	400	4.002	98.2%	67	118	420	5.7%	10	
o-Xylene	210.4	2.5	200	3.372	103.5%	78	107	221.7	5.2%	14	
Toluene	206.8	2.5	200	5.65	100.6%	74	116	216.8	4.7%	14	

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

On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS WATER** Batch ID: **GC-1_980219** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/19/98** Prep Date:

Client ID: **9802005** Run ID: **GC-1_980219A** SeqNo: **282**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.94	0.5	40	0.1628	104.4%	84	114				
Ethylbenzene	44.9	0.5	40	0	112.2%	86	118				
m,p-Xylene	85.5	1	80	0	106.9%	50	150				
o-Xylene	44.06	0.5	40	0	110.1%	49	147				
Toluene	43.16	0.5	40	0.0594	107.8%	87	120				

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

On Site Technologies, LTD.

Date: *24-Feb-98*

CLIENT: PNM Gas Services
Work Order: 9802005
Project: Turner 3

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 QC0529/30** Batch ID: **GC-1_980219** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/19/98** Prep Date:

Client ID: **9802005** Run ID: **GC-1_980219A** SeqNo: **281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.6	0.5	20	0	103.0%	85	115				
Ethylbenzene	22.11	0.5	20	0	110.6%	85	115				
m,p-Xylene	41.68	1	40	0	104.2%	85	115				
o-Xylene	21.6	0.5	20	0	108.0%	85	115				
Toluene	21.04	0.5	20	0	105.2%	85	115				
1,4-Difluorobenzene	101.1	0	100	0	101.1%	70	130				
4-Bromochlorobenzene	95.58	0	100	0	95.6%	70	130				
Fluorobenzene	99.14	0	100	0	99.1%	70	130				

Sample ID: **CCV2 QC0529/30** Batch ID: **GC-1_980219** Test Code: **SW8021A** Units: **µg/L** Analysis Date: **2/19/98** Prep Date:

Client ID: **9802005** Run ID: **GC-1_980219A** SeqNo: **292**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.71	0.5	20	0	103.5%	85	115				
Ethylbenzene	22.06	0.5	20	0	110.3%	85	115				
m,p-Xylene	41.51	1	40	0	103.8%	85	115				
o-Xylene	21.67	0.5	20	0	108.4%	85	115				
Toluene	21.09	0.5	20	0	105.5%	85	115				
1,4-Difluorobenzene	101.4	0	100	0	101.4%	70	130				
4-Bromochlorobenzene	98.06	0	100	0	98.1%	70	130				
Fluorobenzene	99.28	0	100	0	99.3%	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

Date: 2/11/93 Page: 1 of 1

ON SITE TECHNOLOGIES, LTD.

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**	Title	
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 3

Sampler: MS RD RB

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED	LAB ID
9802111140 MW-1			H_2O	HCl	2	X	-01A
9802111125 MW-2			"	"	2	X	-02A
9802111200 MW-3			"	"	2	X	-03A
9802111150 MW-4			↓	↓	2	X	-04A

Relinquished by:	Date/Time 2/11/93 1600	Received by:	Date/Time 2/11/93 1600
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received 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