

**3R - 348**

# **REPORTS**

**DATE:**

**1998**

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

RECEIVED

APR 2 1998

Oil Conservation Bureau  
Oil Conservation Division



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 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: 2<sup>nd</sup>/97, 3<sup>rd</sup>/97, 4<sup>th</sup>/97 & 1<sup>st</sup>/98

**Operator:** Burlington Resources  
**Sec:** 11 **Twn:** 28 N **R:** 10W **Unit:** O  
**Canyon:** Armenta

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

**Topo Map:** previously submitted

**Well Completion Diagram:** previously submitted

**Site Map with Analytical Results:** Figure 1

**Groundwater Contour Map:** Figure 2 (June 1997), Figure 3 (September 1997), Figure 4 (December 1997), & Figure 5 (March 1998)

**Hydrograph:** Figure 6

**Full-suite of Groundwater Sampling Results:** previously submitted

**Analytical Results:** attached

### **Activities for Previous Year:**

PNM performed quarterly sampling of groundwater monitoring wells at the Zachry 18E on June 19, September 25, and December 17, 1997 and again on March 10, 1998. Water levels were measured in each of the five wells. Groundwater in the five wells was sampled for benzene, toluene, ethylbenzene, and xylenes (BTEX). Sampling was performed in strict compliance with EPA protocol. In all instances, PNM delivered the samples to OnSite Technologies, Farmington, New Mexico for analysis of BTEX using EPA Method 8020.

Due to high concentrations of BTEX in MW-2, the source well, PNM conducted additional source removal at the Zachry 18E on January 29, 1998. Field crews removed approximately 3500 cubic yards in and around the former PNM pit. At that time, MW-2 was removed and reinstalled.

### **Results:**

Figure 1 presents the Zachry 18E site map with BTEX analytical results to date. With the exception of MW-4, all wells at the site show BTEX concentrations below WQCC standards. With the recent additional source removal at the site, the BTEX concentration in MW-2 showed a significant reduction. Benzene decreased from 393 ppb in September of 1997 to 99 ppb in March of 1998. The overall BTEX concentration decreased from 8940 ppb to 1196 ppb. The additional source removal appears to have accelerated the reduction of benzene in this area.

Figure(s) 2, 3, 4 and 5 provide groundwater contour maps for June, September, and December 1997, and March 1998, respectively. Groundwater flow is in a northwest direction beneath the site. Figure 6 presents a hydrograph of the site. Groundwater elevation has risen steadily over the past year in all wells at the site.

### **Future Actions:**

PNM will continue to observe groundwater gradient and perform quarterly groundwater monitoring at the Zachry 18E well site.

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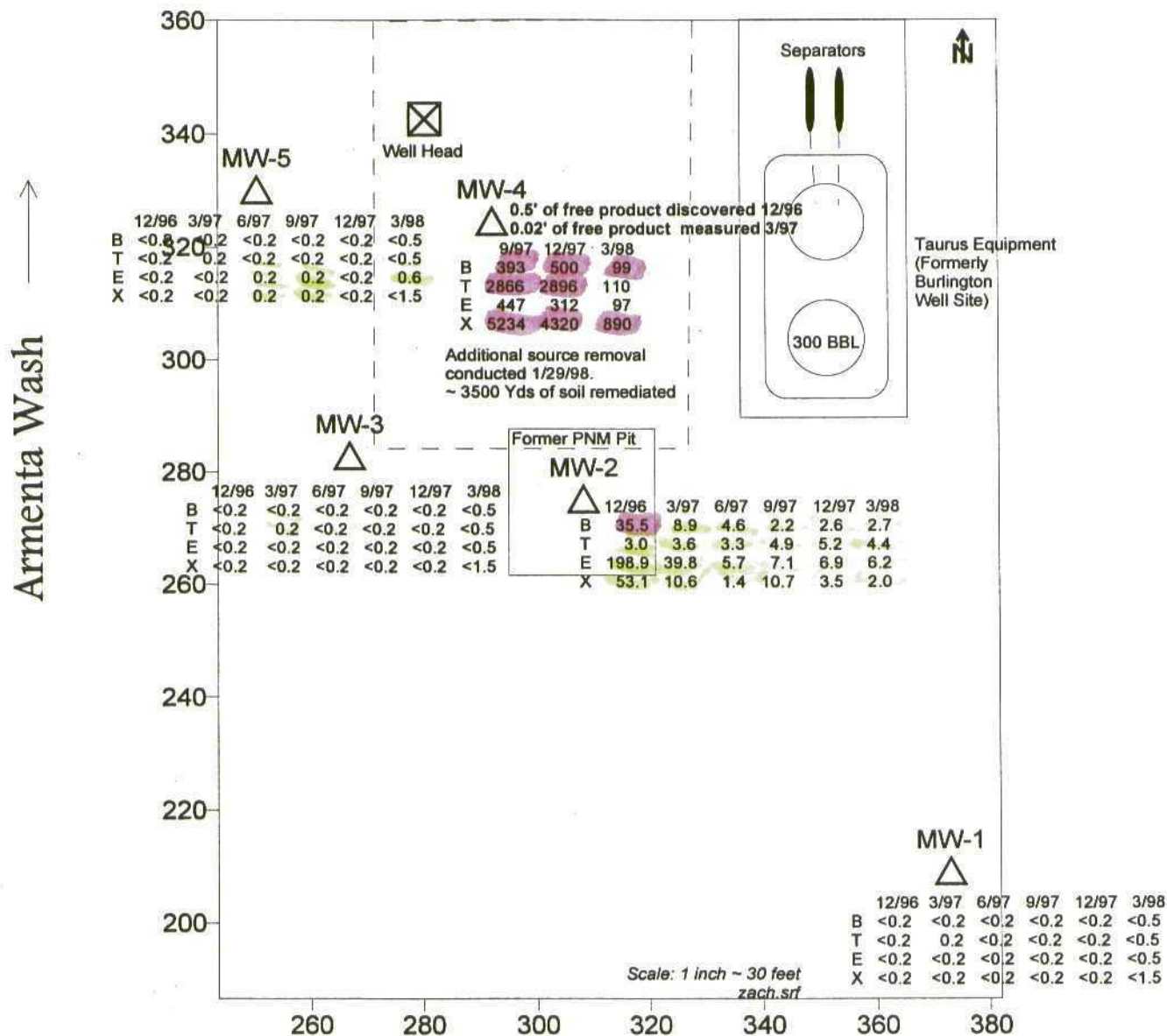
## **Public Service Company of New Mexico - Gas Services**

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

**Contact:** Maureen Gannon

**Telephone:** 505-241-2974

**Figure1. Zachry 18E Site Map With Analytical Results  
(Concentrations in ppb)**



**Figure 2. Zachry 18E Groundwater Contour Map (June 19, 1997)**

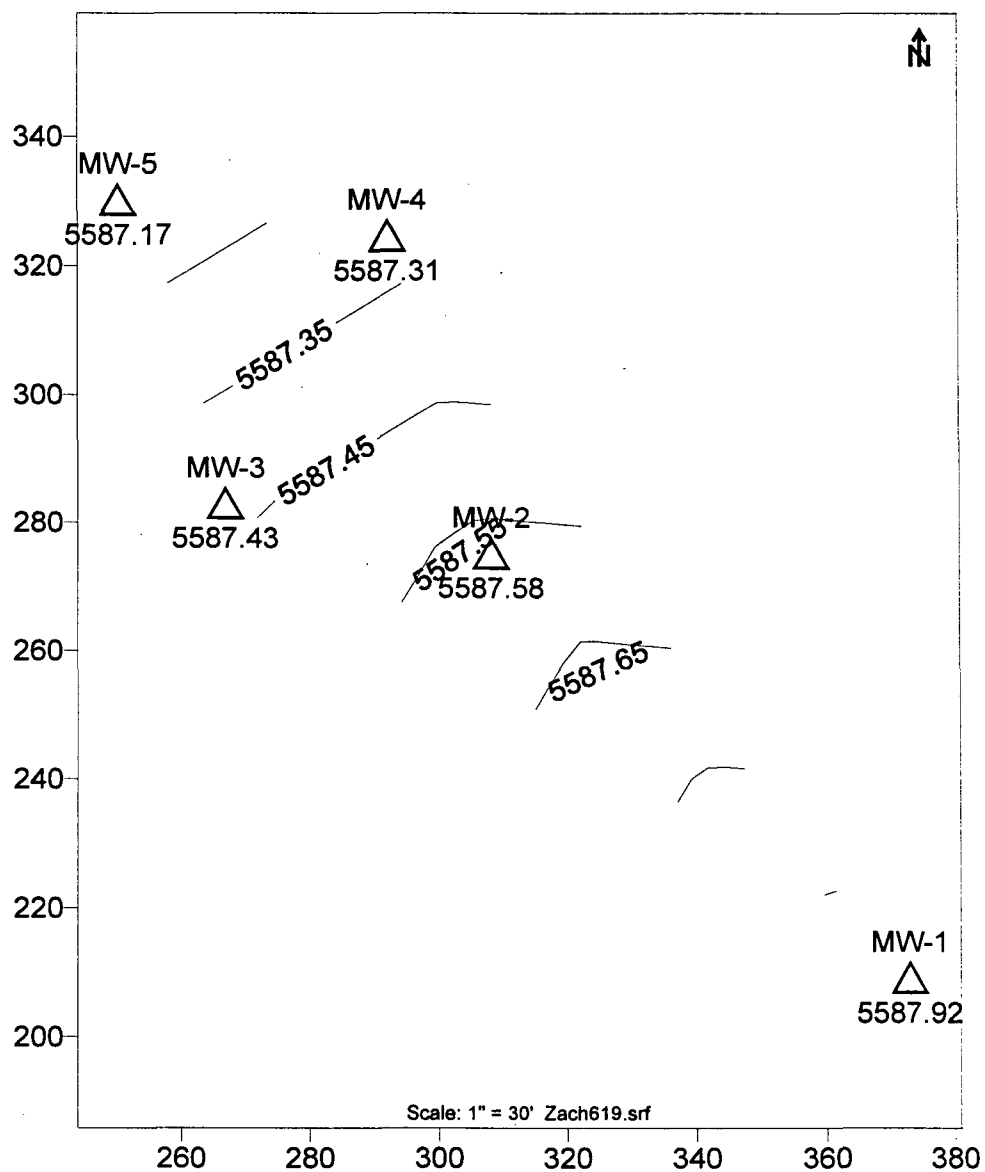
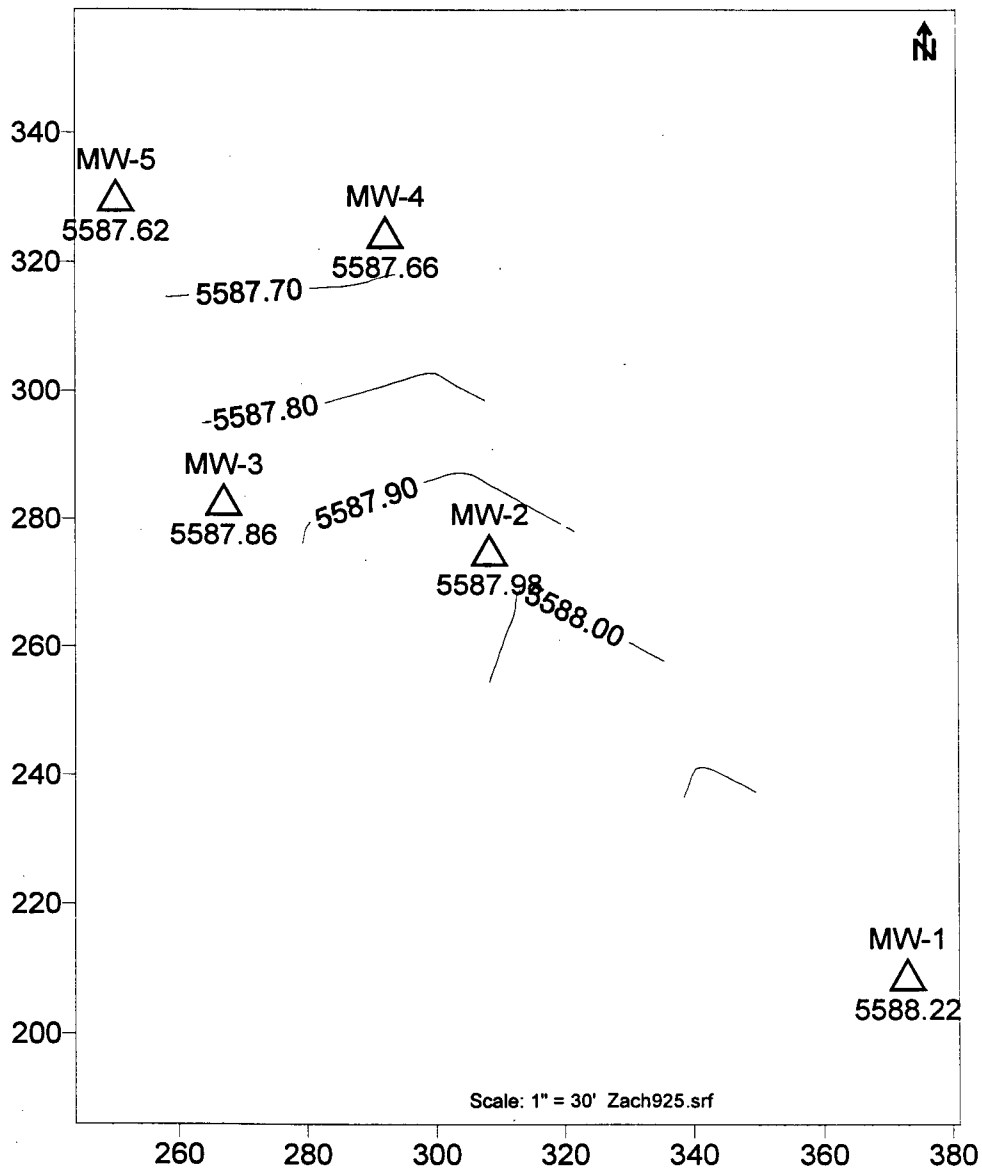


Figure 3. Zachry 18E Groundwater Contour Map (September 25, 1997)



**Figure 4. Zachry 18E Groundwater Contour Map (December 17, 1997)**

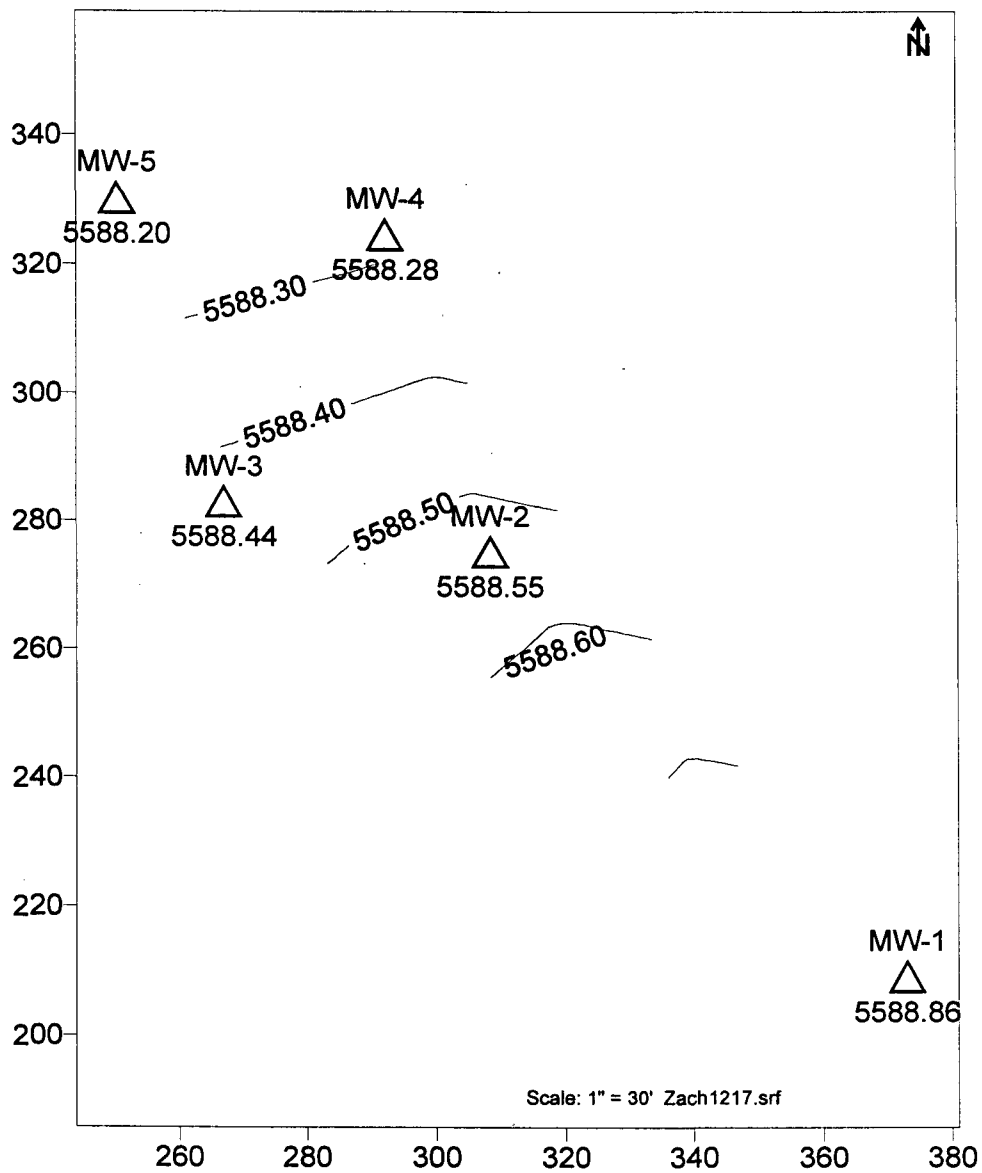


Figure 5. Zachry 18E Groundwater Contour Map (March 24, 1997)

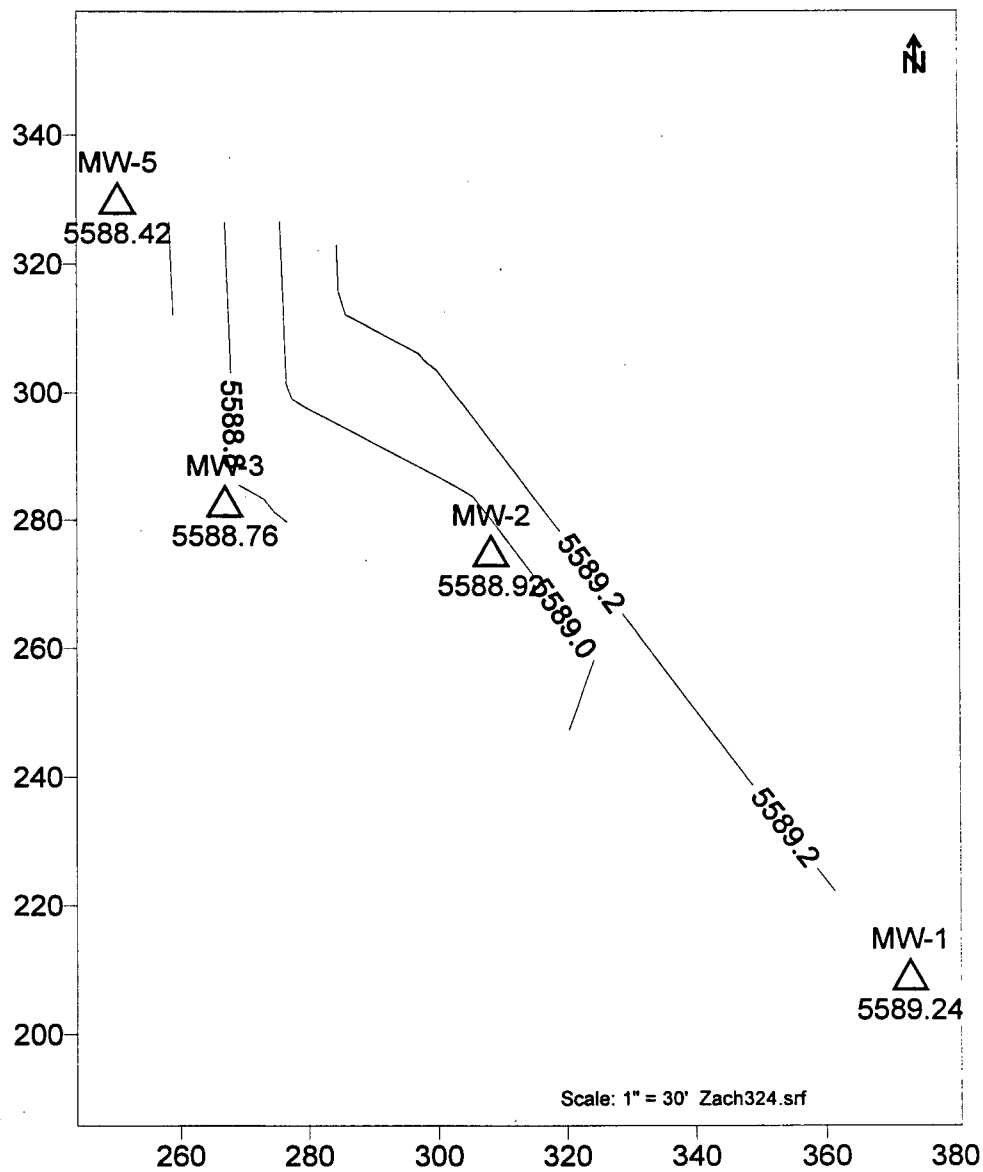
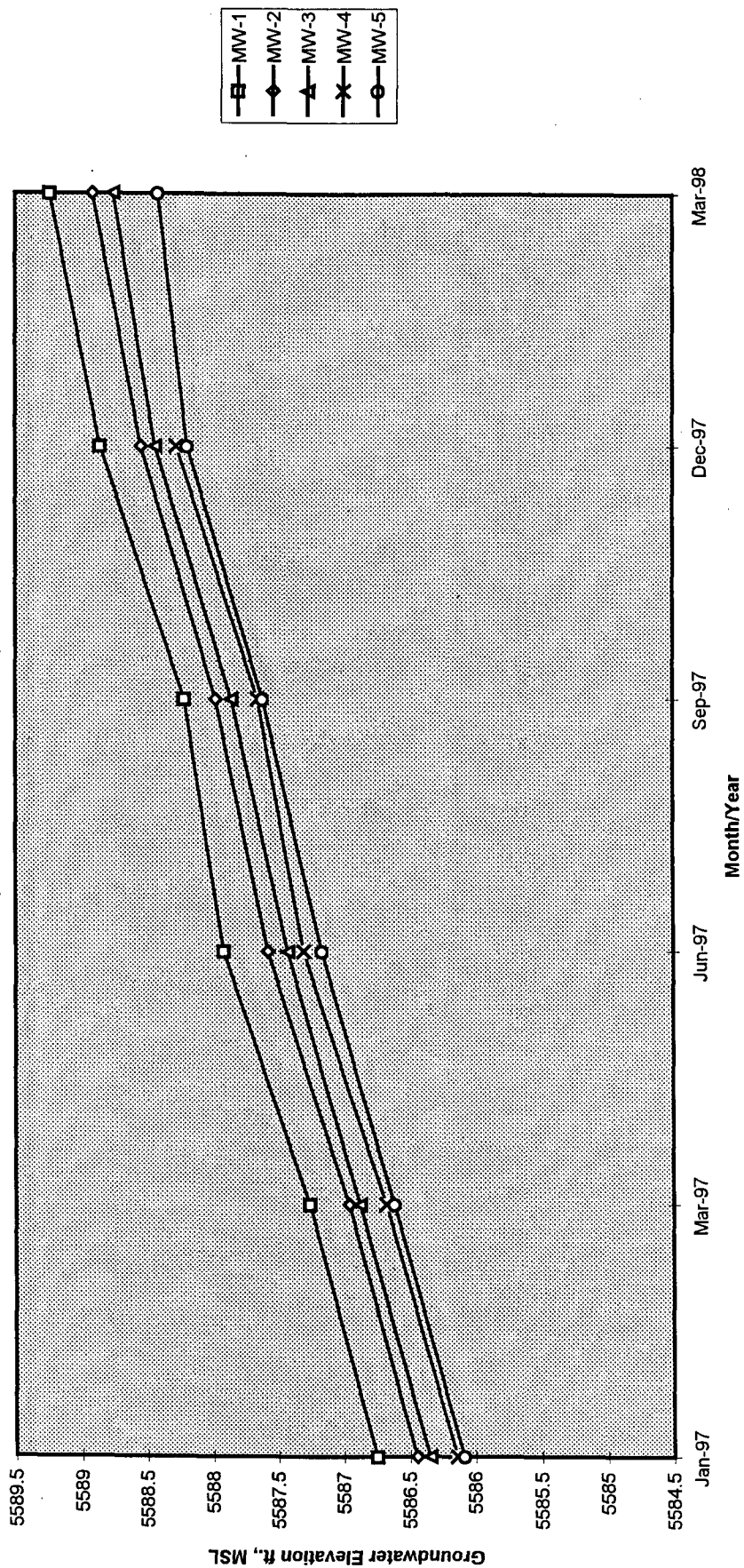


Figure 6. Zachry 18E Groundwater Hydrograph  
(Water Level vs. Time)





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: *26-Jun-97*  
COC No.: *5563*  
Sample No.: *15004*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9706191000; MW-1*  
Sampled by: *MG/MS* Date: *19-Jun-97* Time: *10:00*  
Analyzed by: *DC* Date: *24-Jun-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>   | 0.3                 | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | 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: *[Signature]*  
Date: *6/26/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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**ON SITE**  
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**ANALYTICAL REPORT**

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

Date: *26-Jun-97*  
COC No.: *5563*  
Sample No.: *15005*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*

Project Location: *9706191030; MW-2*

Sampled by: *MG/MS*

Date: *19-Jun-97* Time: *10:30*

Analyzed by: *DC*

Date: *24-Jun-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | <i>4.6</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>Toluene</i>      | <i>3.3</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>Ethylbenzene</i> | <i>5.7</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>m,p-Xylene</i>   | <i>0.2</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>o-Xylene</i>     | <i>1.2</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>TOTAL</i>        | <i>15.0</i>         | <i>ug/L</i>     |                       |                 |

ND - Not Detected at Limit of Quantitation

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Approved By: *[Signature]*

Date: *6/26/97*

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LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *26-Jun-97*  
COC No.: *5563*  
Sample No.: *15006*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9706191100; MW-3*  
Sampled by: *MG/MS*  
Analyzed by: *DC*  
Sample Matrix: *Liquid*

Date: *19-Jun-97* Time: *11:00*  
Date: *24-Jun-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>      | 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: *6/26/97*

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LAB: (505) 325-1556

### ANALYTICAL REPORT

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

Date: *26-Jun-97*  
COC No.: *5563*  
Sample No.: *15008*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9706191200; MW-5*  
Sampled by: *MG/MS*  
Analyzed by: *DC*  
Sample Matrix: *Liquid*

Date: *19-Jun-97* Time: *12:00*  
Date: *24-Jun-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>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | 0.2                 | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | 0.2                 | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | 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: *[Signature]*  
Date: *6/26/97*

OFF: (505) 325-5667



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### ANALYTICAL REPORT

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

Date: *26-Jun-97*  
COC No.: *5563*  
Sample No.: *15009*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9706191230; MW-6*  
Sampled by: *MG/MS* Date: *19-Jun-97* Time: *12:30*  
Analyzed by: *DC* Date: *24-Jun-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>      | 0.3                 | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | 0.4                 | 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>        | 0.7                 | ug/L            |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *DC*  
Date: *6/26/97*

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## QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 26-Jun-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 | % Diff | Limit |
|--------------|-----------------|------------|----------------|--------|-------|
| Benzene      | ppb             | 20.0       | 18.8           | 6      | 15%   |
| Toluene      | ppb             | 20.0       | 19.4           | 3      | 15%   |
| Ethylbenzene | ppb             | 20.0       | 21.2           | 6      | 15%   |
| m,p-Xylene   | ppb             | 40.0       | 38.4           | 4      | 15%   |
| o-Xylene     | ppb             | 20.0       | 21.9           | 10     | 15%   |

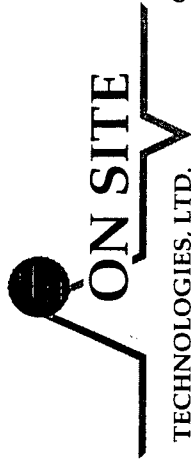
### Matrix Spike

| Parameter    | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | %RSD | Limit |
|--------------|-----------------------|-----------------------|----------|------|-------|
| Benzene      | 85                    | 84                    | (39-150) | 1    | 20%   |
| Toluene      | 85                    | 91                    | (46-148) | 5    | 20%   |
| Ethylbenzene | 74                    | 83                    | (32-160) | 4    | 20%   |
| m,p-Xylene   | 61                    | 74                    | (35-145) | 4    | 20%   |
| o-Xylene     | 78                    | 86                    | (35-145) | 5    | 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)             |                      |
| 15004-5563                | 96                   |                      |                           |                      |                      |
| 15005-5563                | 95                   |                      |                           |                      |                      |
| 15006-5563                | 96                   |                      |                           |                      |                      |
| 15008-5563                | 95                   |                      |                           |                      |                      |
| 15009-5563                | 96                   |                      |                           |                      |                      |
|                           |                      |                      |                           | 6/27/97              | 6/26/97              |

S1: Fluorobenzene



# CHAIN OF CUSTODY RECORD

5563

Date: 6/19/97

Page 1 of 1

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

|                                        |  |                                                  |  |
|----------------------------------------|--|--------------------------------------------------|--|
| Purchase Order No.:                    |  | Job No.                                          |  |
| Name: Denver Bearden                   |  | Name: Maureen Gannon                             |  |
| Company: PNM Gas Services              |  | Company: PNM Gas Services                        |  |
| Address: 603 W. Elm Street             |  | Mailing Address: Alverado Square, Mail Stop 0408 |  |
| City, State, Zip: Farmington, NM 87401 |  | City, State, Zip: Albuquerque, NM 87158          |  |
|                                        |  | Telephone No.: 505-848-2974                      |  |
|                                        |  | Telefax No.:                                     |  |

Sampling Location:

ZACHRY 18E

ANALYSIS REQUESTED

Sampler:

MGannon / M Schubert

| SAMPLE IDENTIFICATION |      | SAMPLE  |      | MATRIX | PRES.       | Number of Containers | LAB ID     |
|-----------------------|------|---------|------|--------|-------------|----------------------|------------|
| DATE                  | TIME | DATE    | TIME |        |             |                      |            |
| 9706191000            | MW1  | 6/19/97 |      | H2O    | (Pres) None | 2                    | 15204-5563 |
| 9706191030            | MW2  |         |      |        |             | 2                    | 17005      |
| 9706191100            | MW3  |         |      |        |             | 2                    | 15206      |
| 9706191130            | MW4  |         |      |        |             | 2                    | 15207      |
| 9706191200            | MW5  |         |      |        |             | 2                    | 15208      |
| 9706191230            | MW6  |         |      | H2O    | (Pres) None | 2                    | 15209      |

|                                        |                         |                                     |                         |
|----------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Relinquished by: <i>Maureen Gannon</i> | Date/Time: 6/19/97 1500 | Received by: <i>[Signature]</i>     | Date/Time: 6/19/97 1500 |
| Relinquished by:                       | Date/Time:              | Received by:                        | Date/Time:              |
| Relinquished by:                       | Date/Time:              | Received by:                        | Date/Time:              |
| Method of Shipment:                    |                         | Rush                                |                         |
| Authorized by:                         | Date:                   | 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

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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: *1-Oct-97*  
COC No.: *5841*  
Sample No.: *16361*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9709251330; MW-1*  
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *13:30*  
Analyzed by: *DC* Date: *30-Sep-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 8020.A Aromatic Volatile Organics by Gas Chromatography*

Approved By: *DC*  
Date: *10/1/97*

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: *1-Oct-97*  
COC No.: *5841*  
Sample No.: *16362*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9709251400; MW-2*  
Sampled by: *MS/MG*  
Analyzed by: *DC*  
Sample Matrix: *Liquid*

Date: *25-Sep-97* Time: *14:00*  
Date: *30-Sep-97*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | <i>2.2</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>Toluene</i>      | <i>4.9</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>Ethylbenzene</i> | <i>7.1</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>m,p-Xylene</i>   | <i>7.2</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>o-Xylene</i>     | <i>3.5</i>          | <i>ug/L</i>     | <i>0.2</i>            | <i>ug/L</i>     |
| <i>TOTAL</i>        | <i>25.0</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: *10/1/97*

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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: *1-Oct-97*  
COC No.: *5841*  
Sample No.: *16363*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9709251430; MW-3*  
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *14:30*  
Analyzed by: *DC* Date: *30-Sep-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 8020.A Aromatic Volatile Organics by Gas Chromatography*

Approved By: *[Signature]*  
Date: *10/1/97*

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: *1-Oct-97*  
COC No.: *5841*  
Sample No.: *16364*  
Job No.: *2-1000*

Project Name: ***PNM Gas Services - Zachry 18E***

Project Location: ***9709251500; MW-4***

Sampled by: *MS/MG*

Date: *25-Sep-97* Time: *15:00*

Analyzed by: *DC*

Date: *30-Sep-97*

Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | 393                 | ug/L            | 20                    | ug/L            |
| <i>Toluene</i>      | 2866                | ug/L            | 20                    | ug/L            |
| <i>Ethylbenzene</i> | 447                 | ug/L            | 20                    | ug/L            |
| <i>m,p-Xylene</i>   | 4132                | ug/L            | 20                    | ug/L            |
| <i>o-Xylene</i>     | 1102                | ug/L            | 20                    | ug/L            |
| <i>TOTAL</i>        | 8940                | 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: *10/1/97*

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: *1-Oct-97*  
COC No.: *5841*  
Sample No.: *16365*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9709251530; MW-5*  
Sampled by: *MS/MG*  
Analyzed by: *DC*  
Sample Matrix: *Liquid*

Date: *25-Sep-97* Time: *15:30*  
Date: *30-Sep-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>      | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | 0.2                 | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | ND                  | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | 0.2                 | 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: *[Signature]*  
Date: *10/1/97*

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: *1-Oct-97*  
COC No.: *5841*  
Sample No.: *16366*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9709251600; MW-6*  
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *16:00*  
Analyzed by: *DC* Date: *30-Sep-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: *10/1/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

## QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 30-Sep-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       | 18.9           | 6   | 15%   |
| Toluene      | ppb             | 20.0       | 20.1           | 0   | 15%   |
| Ethylbenzene | ppb             | 20.0       | 20.1           | 0   | 15%   |
| m,p-Xylene   | ppb             | 40.0       | 39.1           | 2   | 15%   |
| o-Xylene     | ppb             | 20.0       | 20.2           | 1   | 15%   |

**Matrix Spike**

| Parameter    | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | RPD | Limit |
|--------------|-----------------------|-----------------------|----------|-----|-------|
| Benzene      | 97                    | 92                    | (39-150) | 4   | 20%   |
| Toluene      | 101                   | 97                    | (46-148) | 3   | 20%   |
| Ethylbenzene | 99                    | 96                    | (32-160) | 3   | 20%   |
| m,p-Xylene   | 100                   | 95                    | (35-145) | 3   | 20%   |
| o-Xylene     | 98                    | 95                    | (35-145) | 3   | 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)             |                      |
| 16361-5841                | 96                   |                      |                           |                      |                      |
| 16362-5841                | 94                   |                      |                           |                      |                      |
| 16363-5841                | 95                   |                      |                           |                      |                      |
| 16364-5841                | 94                   |                      |                           |                      |                      |
| 16365-5841                | 95                   |                      |                           |                      |                      |
| 16366-5841                | 95                   |                      |                           |                      |                      |

S1: Fluorobenzene



# CHAIN OF CUSTODY RECORD

841

Page 1 of 1

Date: 9/25/97

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

|                                        |  |                                                  |  |
|----------------------------------------|--|--------------------------------------------------|--|
| Purchase Order No.:                    |  | Job No.                                          |  |
| Name: Denver Bearden                   |  | Name: Maureen Gannon                             |  |
| Company: PNM Gas Services              |  | Company: PNM Gas Services                        |  |
| Address: 603 W. Elm Street             |  | Mailing Address: Alverado Square, Mail Stop 0408 |  |
| City, State, Zip: Farmington, NM 87401 |  | City, State, Zip: Albuquerque, NM 87158          |  |
| Telephone No.:                         |  | Telephone No.:                                   |  |
| Telefax No.:                           |  | Telefax No.:                                     |  |
| Title:                                 |  | Title:                                           |  |
| SEND INVOICE TO                        |  | RESULTS TO                                       |  |
| Name: Zachry 18E                       |  | Name: Zachry 18E                                 |  |
| Company: M.S.                          |  | Company: M.S.                                    |  |
| Address: M.G.                          |  | Address: M.G.                                    |  |
| City, State, Zip: Farmington, NM 87401 |  | City, State, Zip: Farmington, NM 87401           |  |
| Telephone No.:                         |  | Telephone No.:                                   |  |
| Telefax No.:                           |  | Telefax No.:                                     |  |
| Title:                                 |  | Title:                                           |  |
| Sampling Location:                     |  | ANALYSIS REQUESTED                               |  |
| Sampler: M.S.                          |  | Sampler: M.S.                                    |  |
| M.G.                                   |  | M.G.                                             |  |
| SAMPLE IDENTIFICATION                  |  | LAB ID                                           |  |
| 970925 1330 MW-1                       |  | 16361-5841                                       |  |
| 970925 1400 MW-2                       |  | 16362-                                           |  |
| 970925 1430 MW-3                       |  | 16363-                                           |  |
| 970925 1500 MW-4                       |  | 16364-                                           |  |
| 970925 1530 MW-5                       |  | 16365-                                           |  |
| 970925 1600 MW-6                       |  | 16366-                                           |  |
| Relinquished by: Maureen               |  | Relinquished by: Maureen                         |  |
| Date/Time: 9/26/97 1410                |  | Date/Time: 9/26/97 1410                          |  |
| Relinquished by:                       |  | Relinquished by:                                 |  |
| Date/Time:                             |  | Date/Time:                                       |  |
| Relinquished by:                       |  | Relinquished by:                                 |  |
| Date/Time:                             |  | Date/Time:                                       |  |
| Method of Shipment:                    |  | Method of Shipment:                              |  |
| Authorized by: [Signature]             |  | Authorized by: [Signature]                       |  |
| Date: 9/26/97                          |  | Date: 9/26/97                                    |  |
| Special Instructions:                  |  | Special Instructions:                            |  |
| Results to be sent to both parties.    |  | Results to be sent to both parties.              |  |

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: *30-Dec-97*  
COC No.: *7148*  
Sample No.: *17170*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9712171509; MW-1*  
Sampled by: *RD* Date: *17-Dec-97* Time: *15:09*  
Analyzed by: *DC* Date: *25-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>   | 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: *12/30/97*

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: *30-Dec-97*  
COC No.: *7148*  
Sample No.: *17171*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9712171536; MW-2*  
Sampled by: *RD* Date: *17-Dec-97* Time: *15:36*  
Analyzed by: *DC* Date: *25-Dec-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | 2.6                 | ug/L            | 0.2                   | ug/L            |
| <i>Toluene</i>      | 5.2                 | ug/L            | 0.2                   | ug/L            |
| <i>Ethylbenzene</i> | 6.9                 | ug/L            | 0.2                   | ug/L            |
| <i>m,p-Xylene</i>   | 3.2                 | ug/L            | 0.2                   | ug/L            |
| <i>o-Xylene</i>     | 0.3                 | ug/L            | 0.2                   | ug/L            |
| <i>TOTAL</i>        | 18.2                | 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: *12/30/97*

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: *30-Dec-97*  
COC No.: *7148*  
Sample No.: *17172*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9712171622; MW-3*  
Sampled by: *RD* Date: *17-Dec-97* Time: *16:22*  
Analyzed by: *DC* Date: *25-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>   | 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: *Zall*  
Date: *12/30/97*

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: *30-Dec-97*  
COC No.: *7148*  
Sample No.: *17173*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9712171647; MW-4*  
Sampled by: *RD* Date: *17-Dec-97* Time: *16:47*  
Analyzed by: *HR* Date: *26-Dec-97*  
Sample Matrix: *Liquid*

| Parameter           | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------|---------------------|-----------------|-----------------------|-----------------|
| <i>Benzene</i>      | <i>500</i>          | <i>ug/L</i>     | <i>10</i>             | <i>ug/L</i>     |
| <i>Toluene</i>      | <i>2896</i>         | <i>ug/L</i>     | <i>10</i>             | <i>ug/L</i>     |
| <i>Ethylbenzene</i> | <i>312</i>          | <i>ug/L</i>     | <i>10</i>             | <i>ug/L</i>     |
| <i>m,p-Xylene</i>   | <i>3504</i>         | <i>ug/L</i>     | <i>10</i>             | <i>ug/L</i>     |
| <i>o-Xylene</i>     | <i>816</i>          | <i>ug/L</i>     | <i>10</i>             | <i>ug/L</i>     |
| <i>TOTAL</i>        | <i>8027</i>         | <i>ug/L</i>     |                       |                 |

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*  
Date: *12/30/97*

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: *30-Dec-97*  
COC No.: *7148*  
Sample No.: *17174*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9712171705; MW-5*  
Sampled by: *RD* Date: *17-Dec-97* Time: *17:05*  
Analyzed by: *DC* Date: *25-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>   | 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: *12/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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LAB: (505) 325-1556

**ANALYTICAL REPORT**

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

Date: *30-Dec-97*  
COC No.: *7148*  
Sample No.: *17175*  
Job No.: *2-1000*

Project Name: *PNM Gas Services - Zachry 18E*  
Project Location: *9712171725; MW-6*  
Sampled by: *RD* Date: *17-Dec-97* Time: *17:25*  
Analyzed by: *DC* Date: *25-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>   | 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: *12/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

**QUALITY ASSURANCE REPORT***for EPA Method 8020*

Date Analyzed: 25-Dec-97

Internal QC No.: 0559-STD

Surrogate QC No.: 0567-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       | 19.3           | 4   | 15%   |
| Toluene      | ppb             | 20.0       | 19.7           | 1   | 15%   |
| Ethylbenzene | ppb             | 20.0       | 19.9           | 1   | 15%   |
| m,p-Xylene   | ppb             | 40.0       | 38.2           | 5   | 15%   |
| o-Xylene     | ppb             | 20.0       | 19.6           | 2   | 15%   |

**Matrix Spike**

| Parameter    | 1 - Percent Recovered | 2 - Percent Recovered | Limit    | RPD | Limit |
|--------------|-----------------------|-----------------------|----------|-----|-------|
| Benzene      | 77                    | 91                    | (39-150) | 3   | 20%   |
| Toluene      | 94                    | 97                    | (46-148) | 3   | 20%   |
| Ethylbenzene | 87                    | 93                    | (32-160) | 3   | 20%   |
| m,p-Xylene   | 91                    | 94                    | (35-145) | 3   | 20%   |
| o-Xylene     | 92                    | 95                    | (35-145) | 3   | 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)             |                      |
| 17170-7148                | 94                   |                      |                           |                      |                      |
| 17171-7148                | 92                   |                      |                           |                      |                      |
| 17172-7148                | 94                   |                      |                           |                      |                      |
| 17174-7148                | 94                   |                      |                           |                      |                      |
| 17175-7148                | 94                   |                      |                           |                      |                      |
|                           |                      |                      |                           | JK                   | (12)                 |
|                           |                      |                      |                           | 12/31/97             | 12/30/97             |

S1: Fluorobenzene

## for EPA Method 8020

Reference Standard QC No.: 0529/30-QC

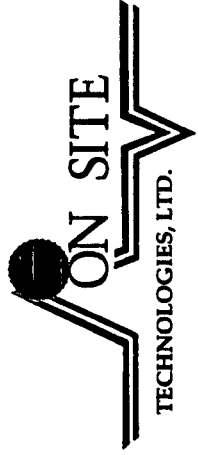
| <i>Parameter</i>                               | <i>Result</i> | <i>Unit of Measure</i> |
|------------------------------------------------|---------------|------------------------|
| <i>Average Amount of All Analytes in Blank</i> | < 0.2         | ppb                    |

| <i>Parameter</i>    | <i>Unit of Measure</i> | <i>True Value</i> | <i>Analyzed Value</i> | <i>RPD</i> | <i>Limit</i> |
|---------------------|------------------------|-------------------|-----------------------|------------|--------------|
| <i>Benzene</i>      | ppb                    | 20.0              | 20.8                  | 4          | 15%          |
| <i>Toluene</i>      | ppb                    | 20.0              | 21.7                  | 8          | 15%          |
| <i>Ethylbenzene</i> | ppb                    | 20.0              | 21.2                  | 6          | 15%          |
| <i>m,p-Xylene</i>   | ppb                    | 40.0              | 40.9                  | 2          | 15%          |
| <i>o-Xylene</i>     | ppb                    | 20.0              | 20.9                  | 4          | 15%          |

| <i>Parameter</i>    | <i>1- Percent Recovered</i> | <i>2 - Percent Recovered</i> | <i>Limit</i> | <i>RPD</i> | <i>Limit</i> |
|---------------------|-----------------------------|------------------------------|--------------|------------|--------------|
| <i>Benzene</i>      | 91                          | 92                           | (39-150)     | 1          | 20%          |
| <i>Toluene</i>      | 98                          | 98                           | (46-148)     | 0          | 20%          |
| <i>Ethylbenzene</i> | 90                          | 94                           | (32-160)     | 2          | 20%          |
| <i>m,p-Xylene</i>   | 92                          | 95                           | (35-145)     | 3          | 20%          |
| <i>o-Xylene</i>     | 96                          | 96                           | (35-145)     | 0          | 20%          |

|                                | S1<br>Percent<br><i>Laboratory Identification</i><br><i>Recovered</i> | S2<br>Percent<br><i>Recovered</i> |                                | S1<br>Percent<br><i>Laboratory Identification</i><br><i>Recovered</i> | S2<br>Percent<br><i>Recovered</i> |
|--------------------------------|-----------------------------------------------------------------------|-----------------------------------|--------------------------------|-----------------------------------------------------------------------|-----------------------------------|
| <i>Limit Percent Recovered</i> | (70-130)                                                              |                                   | <i>Limit Percent Recovered</i> | (70-130)                                                              |                                   |
|                                |                                                                       |                                   |                                |                                                                       |                                   |
| 17173-7148                     | 93                                                                    |                                   |                                |                                                                       |                                   |
|                                |                                                                       |                                   |                                |                                                                       |                                   |
|                                |                                                                       |                                   |                                |                                                                       |                                   |
|                                |                                                                       |                                   |                                |                                                                       |                                   |
|                                |                                                                       |                                   |                                | JLR                                                                   | (nc)                              |
|                                |                                                                       |                                   |                                | 12/31/97                                                              | 12/30/97                          |

P.O. BOX 2606 • FARMINGTON, NM 87499



# CHAIN OF CUSTODY RECORD

78

Page: 1 of 1

Date: 12/17/97

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: Denver Bearden                      |      | Title: Maureen Gannon                            |       |
| Company: PNM Gas Services                 |      | Company: PNM Gas Services                        |       |
| Address: 603 W. Elm Street                |      | Mailing Address: Alverado Square, Mail Stop 0408 |       |
| City, State, Zip: Farmington, NM 87401    |      | City, State, Zip: Albuquerque, NM 87158          |       |
| Telephone No.:                            |      | Telephone No.:                                   |       |
| Telex No.:                                |      | Telex No.:                                       |       |
| Sampling Location: Zachry 18 E            |      | ANALYSIS REQUESTED                               |       |
| Sampler: R. Dedrick                       |      | Containers                                       |       |
| SAMPLE IDENTIFICATION                     |      | LAB ID                                           |       |
| DATE                                      | TIME | MATRIX                                           | PRES. |
| 12/17/97                                  | 1509 | H <sub>2</sub> O                                 | HCl   |
| 12/17/97                                  | 1536 | H <sub>2</sub> O                                 | HCl   |
| 12/17/97                                  | 1622 | H <sub>2</sub> O                                 | HCl   |
| 12/17/97                                  | 1647 | H <sub>2</sub> O                                 | HCl   |
| 12/17/97                                  | 1705 | H <sub>2</sub> O                                 | HCl   |
| 12/17/97                                  | 1725 | H <sub>2</sub> O                                 | HCl   |
| Relinquished by: Ronald A Dedrick         |      | Received by: [Signature]                         |       |
| Date/Time: 12/16/97 0955                  |      | Date/Time: 12/16/97 0955                         |       |
| Relinquished by:                          |      | Received by:                                     |       |
| Date/Time:                                |      | Date/Time:                                       |       |
| Relinquished by:                          |      | Received by:                                     |       |
| Date/Time:                                |      | Date/Time:                                       |       |
| Method of Shipment:                       |      | 10 Working Days                                  |       |
| Special Instructions:                     |      | Results to be sent to both parties.              |       |
| Authorized by: Ronald A Dedrick           |      | Date: 12/18/97                                   |       |
| (Client Signature Must Accompany Request) |      |                                                  |       |

# ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

March 25, 1998

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

RE: Zachry 18E

Order No.: 9803032

Dear Maureen Gannon,

On Site Technologies, LTD. received 6 samples on 3/10/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:  
BTEX (SW8020A)

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.

Date: 25-Mar-98

---

**CLIENT:** PNM - Public Service Company of NM  
**Project:** Zachry 18E  
**Lab Order:** 9803032

---

## CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

# ON SITE

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TECHNOLOGIES, LTD.

## ANALYTICAL REPORT

Date: 25-Mar-98

|                    |                                    |                            |                    |
|--------------------|------------------------------------|----------------------------|--------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Zachry 18E         |
| <b>Work Order:</b> | 9803032                            | <b>Client Sample ID:</b>   | 9803100930; MW-1   |
| <b>Lab ID:</b>     | 9803032-01A                        | <b>Matrix:</b>             | AQUEOUS            |
| <b>Project:</b>    | Zachry 18E                         | <b>Collection Date:</b>    | 3/10/98 9:30:00 AM |
|                    |                                    | <b>COC#:</b>               | 7184               |

| Parameter                  | Result | Limit          | Qual | Units       | DF | Date Analyzed |
|----------------------------|--------|----------------|------|-------------|----|---------------|
| <b>BTEX</b>                |        | <b>SW8020A</b> |      | Analyst: DC |    |               |
| Benzene                    | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Toluene                    | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Ethylbenzene               | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| m,p-Xylene                 | ND     | 1              |      | µg/L        | 1  | 3/18/98       |
| o-Xylene                   | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Surr: Fluorobenzene        | 92.5   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 1,4-Difluorobenzene  | 93.5   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 4-Bromochlorobenzene | 91.1   | 70-130         |      | %REC        | 1  | 3/18/98       |

**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

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TECHNOLOGIES, LTD.

## ANALYTICAL REPORT

Date: 25-Mar-98

|                    |                                    |                            |                    |
|--------------------|------------------------------------|----------------------------|--------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Zachry 18E         |
| <b>Work Order:</b> | 9803032                            | <b>Client Sample ID:</b>   | 9803100945; MW-2   |
| <b>Lab ID:</b>     | 9803032-02A                        | <b>Matrix:</b>             | AQUEOUS            |
| <b>Project:</b>    | Zachry 18E                         | <b>Collection Date:</b>    | 3/10/98 9:45:00 AM |
|                    |                                    | <b>COC#:</b>               | 7184               |

| Parameter                  | Result | Limit          | Qual | Units       | DF | Date Analyzed |
|----------------------------|--------|----------------|------|-------------|----|---------------|
| <b>BTEX</b>                |        | <b>SW8020A</b> |      | Analyst: DC |    |               |
| Benzene                    | 2.7    | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Toluene                    | 4.4    | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Ethylbenzene               | 6.2    | 0.5            |      | µg/L        | 1  | 3/18/98       |
| m,p-Xylene                 | 2      | 1              |      | µg/L        | 1  | 3/18/98       |
| o-Xylene                   | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Surr: Fluorobenzene        | 90.8   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 1,4-Difluorobenzene  | 92.0   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 4-Bromochlorobenzene | 89.3   | 70-130         |      | %REC        | 1  | 3/18/98       |

### 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

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TECHNOLOGIES, LTD.

## ANALYTICAL REPORT

Date: 25-Mar-98

|                    |                                    |                            |                     |
|--------------------|------------------------------------|----------------------------|---------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Zachry 18E          |
| <b>Work Order:</b> | 9803032                            | <b>Client Sample ID:</b>   | 9803101000: MW-3    |
| <b>Lab ID:</b>     | 9803032-03A                        | <b>Matrix:</b>             | AQUEOUS             |
| <b>Project:</b>    | Zachry 18E                         | <b>Collection Date:</b>    | 3/10/98 10:00:00 AM |
|                    |                                    | <b>COC#:</b>               | 7184                |

| Parameter                  | Result | Limit          | Qual | Units       | DF | Date Analyzed |
|----------------------------|--------|----------------|------|-------------|----|---------------|
| <b>BTEX</b>                |        | <b>SW8020A</b> |      | Analyst: DC |    |               |
| Benzene                    | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Toluene                    | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Ethylbenzene               | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| m,p-Xylene                 | ND     | 1              |      | µg/L        | 1  | 3/18/98       |
| o-Xylene                   | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Surr: Fluorobenzene        | 92.5   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 1,4-Difluorobenzene  | 94.0   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 4-Bromochlorobenzene | 92.9   | 70-130         |      | %REC        | 1  | 3/18/98       |

**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         |                                                     |

OFF: (505) 325-5667

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TECHNOLOGIES, LTD.

## ANALYTICAL REPORT

Date: 25-Mar-98

|                    |                                    |                            |                     |
|--------------------|------------------------------------|----------------------------|---------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Zachry 18E          |
| <b>Work Order:</b> | 9803032                            | <b>Client Sample ID:</b>   | 9803101030; MW-4    |
| <b>Lab ID:</b>     | 9803032-04A                        | <b>Matrix:</b>             | AQUEOUS             |
| <b>Project:</b>    | Zachry 18E                         | <b>Collection Date:</b>    | 3/10/98 10:30:00 AM |
|                    |                                    | <b>COC#:</b>               | 7184                |

| Parameter                  | Result | Limit          | Qual | Units | DF | Date Analyzed |
|----------------------------|--------|----------------|------|-------|----|---------------|
| <b>BTEX</b>                |        | <b>SW8020A</b> |      |       |    | Analyst: DC   |
| Benzene                    | 99     | 10             |      | µg/L  | 20 | 3/18/98       |
| Toluene                    | 110    | 10             |      | µg/L  | 20 | 3/18/98       |
| Ethylbenzene               | 97     | 10             |      | µg/L  | 20 | 3/18/98       |
| m,p-Xylene                 | 760    | 20             |      | µg/L  | 20 | 3/18/98       |
| o-Xylene                   | 130    | 10             |      | µg/L  | 20 | 3/18/98       |
| Surr: Fluorobenzene        | 92.9   | 70-130         |      | %REC  | 20 | 3/18/98       |
| Surr: 1,4-Difluorobenzene  | 93.1   | 70-130         |      | %REC  | 20 | 3/18/98       |
| Surr: 4-Bromochlorobenzene | 90.9   | 70-130         |      | %REC  | 20 | 3/18/98       |

## 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

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## ANALYTICAL REPORT

Date: 25-Mar-98

|                    |                                    |                            |                     |
|--------------------|------------------------------------|----------------------------|---------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Zachry 18E          |
| <b>Work Order:</b> | 9803032                            | <b>Client Sample ID:</b>   | 9803101015: MW-5    |
| <b>Lab ID:</b>     | 9803032-05A                        | <b>Matrix:</b>             | AQUEOUS             |
| <b>Project:</b>    | Zachry 18E                         | <b>Collection Date:</b>    | 3/10/98 10:15:00 AM |
|                    |                                    | <b>COC#:</b>               | 7184                |

| Parameter                  | Result | Limit          | Qual | Units       | DF | Date Analyzed |
|----------------------------|--------|----------------|------|-------------|----|---------------|
| <b>BTEX</b>                |        | <b>SW8020A</b> |      | Analyst: DC |    |               |
| Benzene                    | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Toluene                    | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Ethylbenzene               | 0.6    | 0.5            |      | µg/L        | 1  | 3/18/98       |
| m,p-Xylene                 | ND     | 1              |      | µg/L        | 1  | 3/18/98       |
| o-Xylene                   | ND     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Surr: Fluorobenzene        | 92.5   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 1,4-Difluorobenzene  | 93.2   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 4-Bromochlorobenzene | 91.2   | 70-130         |      | %REC        | 1  | 3/18/98       |

**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

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LAB: (505) 325-1356

TECHNOLOGIES, LTD.

## ANALYTICAL REPORT

Date: 25-Mar-98

|                    |                                    |                            |                     |
|--------------------|------------------------------------|----------------------------|---------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Zachry 18E          |
| <b>Work Order:</b> | 9803032                            | <b>Client Sample ID:</b>   | 9803101045: MW-6    |
| <b>Lab ID:</b>     | 9803032-06A                        | <b>Matrix:</b>             | AQUEOUS             |
| <b>Project:</b>    | Zachry 18E                         | <b>Collection Date:</b>    | 3/10/98 10:45:00 AM |
|                    |                                    | <b>COC#:</b>               | 7184                |

| Parameter                  | Result | Limit          | Qual | Units       | DF | Date Analyzed |
|----------------------------|--------|----------------|------|-------------|----|---------------|
| <b>BTEX</b>                |        | <b>SW8020A</b> |      | Analyst: DC |    |               |
| Benzene                    | 100    | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Toluene                    | 100    | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Ethylbenzene               | 90     | 0.5            |      | µg/L        | 1  | 3/18/98       |
| m,p-Xylene                 | 760    | 20             |      | µg/L        | 20 | 3/19/98       |
| o-Xylene                   | 120    | 0.5            |      | µg/L        | 1  | 3/18/98       |
| Surr: Fluorobenzene        | 88.8   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: Fluorobenzene        | 92.9   | 70-130         |      | %REC        | 20 | 3/19/98       |
| Surr: 1,4-Difluorobenzene  | 85.9   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 1,4-Difluorobenzene  | 93.0   | 70-130         |      | %REC        | 20 | 3/19/98       |
| Surr: 4-Bromochlorobenzene | 88.7   | 70-130         |      | %REC        | 1  | 3/18/98       |
| Surr: 4-Bromochlorobenzene | 91.8   | 70-130         |      | %REC        | 20 | 3/19/98       |

**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

1 of 1

# On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Method Blank

|                |                       |                      |             |                        |            |          |           |             |      |          |      |
|----------------|-----------------------|----------------------|-------------|------------------------|------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB1 | Batch ID: GC-1_980318 | Test Code: SW8020A   | Units: µg/L | Analysis Date: 3/18/98 | Prep Date: |          |           |             |      |          |      |
| Client ID:     | 9803032               | Run ID: GC-1_980318A |             | SeqNo: 67              |            |          |           |             |      |          |      |
| Analyte        | Result                | PQL                  | SPK value   | SPK Ref Val            | %REC       | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene        | .0822                 | 0.5                  |             |                        |            |          |           |             |      |          | J    |
| Ethylbenzene   | .1129                 | 0.5                  |             |                        |            |          |           |             |      |          | J    |
| m,p-Xylene     | .3057                 | 1                    |             |                        |            |          |           |             |      |          | J    |
| o-Xylene       | .1097                 | 0.5                  |             |                        |            |          |           |             |      |          | J    |
| Toluene        | .1684                 | 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: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Sample Matrix Spike

| Sample ID: 9803032-04AMS   |        | Batch ID: GC-1_980318 | Test Code: SW8020A   | Units: µg/L | Analysis Date: 3/18/98 |          | Prep Date: |             |      |          |      |
|----------------------------|--------|-----------------------|----------------------|-------------|------------------------|----------|------------|-------------|------|----------|------|
| Client ID: 9803101030; MW- |        | 9803032               | Run ID: GC-1_980318A |             | SeqNo: 68              |          |            |             |      |          |      |
| Analyte                    | Result | PQL                   | SPK value            | SPK Ref Val | %REC                   | LowLimit | HighLimit  | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | 940.2  | 10                    | 800                  | 99.31       | 105.1%                 | 56       | 128        |             |      |          |      |
| Ethylbenzene               | 923    | 10                    | 800                  | 97.04       | 103.2%                 | 78       | 107        |             |      |          |      |
| m,p-Xylene                 | 2384   | 20                    | 1600                 | 756.9       | 101.7%                 | 67       | 118        |             |      |          |      |
| o-Xylene                   | 956.3  | 10                    | 800                  | 127.2       | 103.6%                 | 78       | 107        |             |      |          |      |
| Toluene                    | 935.7  | 10                    | 800                  | 109         | 103.3%                 | 74       | 116        |             |      |          |      |

| Sample ID: 9803032-04AMSD  |        | Batch ID: GC-1_980318 | Test Code: SW8020A   | Units: µg/L | Analysis Date: 3/18/98 |          |           | Prep Date:  |      |          |      |
|----------------------------|--------|-----------------------|----------------------|-------------|------------------------|----------|-----------|-------------|------|----------|------|
| Client ID: 9803101030; MW- |        | 9803032               | Run ID: GC-1_980318A |             | SeqNo: 69              |          |           |             |      |          |      |
| Analyte                    | Result | PQL                   | SPK value            | SPK Ref Val | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                    | 904.3  | 10                    | 800                  | 99.31       | 100.6%                 | 56       | 128       | 940.2       | 3.9% | 15       |      |
| Ethylbenzene               | 890.2  | 10                    | 800                  | 97.04       | 99.1%                  | 78       | 107       | 923         | 3.6% | 15       |      |
| m,p-Xylene                 | 2301   | 20                    | 1600                 | 756.9       | 96.5%                  | 67       | 118       | 2384        | 3.6% | 15       |      |
| o-Xylene                   | 925.2  | 10                    | 800                  | 127.2       | 99.7%                  | 78       | 107       | 956.3       | 3.3% | 15       |      |
| Toluene                    | 903.1  | 10                    | 800                  | 109         | 99.3%                  | 74       | 116       | 935.7       | 3.6% | 15       |      |

### 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: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Laboratory Control Spike - generic

| Sample ID: LCS WATER |        | Batch ID: GC-1_980318 | Test Code: SW8020A | Units: µg/L | Analysis Date: 3/18/98 |          | Prep Date: |           |
|----------------------|--------|-----------------------|--------------------|-------------|------------------------|----------|------------|-----------|
| Client ID: 9803032   |        | Run ID: GC-1_980318A  | PQL                | SPK value   | SPK Ref Val            | %REC     | LowLimit   | HighLimit |
| Analyte              | Result | PQL                   | SPK value          | SPK Ref Val | %REC                   | LowLimit | HighLimit  | SeqNo: 66 |
| Benzene              | 42.86  | 0.5                   | 40                 | 0.0822      | 107.0%                 | 39       | 150        |           |
| Ethylbenzene         | 43.87  | 0.5                   | 40                 | 0.1129      | 109.4%                 | 32       | 160        |           |
| m,p-Xylene           | 83.96  | 1                     | 80                 | 0.3057      | 104.6%                 | 35       | 145        |           |
| o-Xylene             | 42.89  | 0.5                   | 40                 | 0.1097      | 107.0%                 | 35       | 145        |           |
| Toluene              | 42.54  | 0.5                   | 40                 | 0.1684      | 105.9%                 | 46       | 148        |           |

### 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.

**CLIENT:** PNM - Public Service Company of NM  
**Work Order:** 9803032  
**Project:** Zachry 18E

Date: 25-Mar-98

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

| Sample ID: CCV1 QC0529/30 |        | Batch ID: GC-1_980318 | Test Code: SW8020A | Units: µg/L | Analysis Date: 3/18/98 |          | Prep Date: |
|---------------------------|--------|-----------------------|--------------------|-------------|------------------------|----------|------------|
| Client ID: 9803032        |        | Run ID: GC-1_980318A  | PQL                | SPK value   | SPK Ref Val            | %REC     | SeqNo: 63  |
| Analyte                   | Result | PQL                   | SPK value          | SPK Ref Val | %REC                   | LowLimit | HighLimit  |
| Benzene                   | 21.39  | 0.5                   | 20                 | 0           | 106.9%                 | 85       | 115        |
| Ethylbenzene              | 22.04  | 0.5                   | 20                 | 0           | 110.2%                 | 85       | 115        |
| m,p-Xylene                | 41.93  | 1                     | 40                 | 0           | 104.8%                 | 85       | 115        |
| o-Xylene                  | 21.58  | 0.5                   | 20                 | 0           | 107.9%                 | 85       | 115        |
| Toluene                   | 21.22  | 0.5                   | 20                 | 0           | 106.1%                 | 85       | 115        |
| 1,4-Difluorobenzene       | 93.58  | 0                     | 100                | 0           | 93.6%                  | 70       | 130        |
| 4-Bromochlorobenzene      | 90.62  | 0                     | 100                | 0           | 90.6%                  | 70       | 130        |
| Fluorobenzene             | 92.53  | 0                     | 100                | 0           | 92.5%                  | 70       | 130        |

| Sample ID: CCV2 QC0529/30 |        | Batch ID: GC-1_980318 | Test Code: SW8020A | Units: µg/L | Analysis Date: 3/18/98 |          | Prep Date: |
|---------------------------|--------|-----------------------|--------------------|-------------|------------------------|----------|------------|
| Client ID: 9803032        |        | Run ID: GC-1_980318A  | PQL                | SPK value   | SPK Ref Val            | %REC     | SeqNo: 64  |
| Analyte                   | Result | PQL                   | SPK value          | SPK Ref Val | %REC                   | LowLimit | HighLimit  |
| Benzene                   | 21.34  | 0.5                   | 20                 | 0           | 106.7%                 | 85       | 115        |
| Ethylbenzene              | 21.91  | 0.5                   | 20                 | 0           | 109.6%                 | 85       | 115        |
| m,p-Xylene                | 41.5   | 1                     | 40                 | 0           | 103.8%                 | 85       | 115        |
| o-Xylene                  | 21.36  | 0.5                   | 20                 | 0           | 106.8%                 | 85       | 115        |
| Toluene                   | 21.11  | 0.5                   | 20                 | 0           | 105.6%                 | 85       | 115        |
| 1,4-Difluorobenzene       | 93.14  | 0                     | 100                | 0           | 93.1%                  | 70       | 130        |
| 4-Bromochlorobenzene      | 90.04  | 0                     | 100                | 0           | 90.0%                  | 70       | 130        |
| Fluorobenzene             | 92.38  | 0                     | 100                | 0           | 92.4%                  | 70       | 130        |

### 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

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

| Sample ID: CCV3 QC0529/30 |        | Batch ID: GC-1_980318 | Test Code: SW8020A | Units: µg/L  | Analysis Date: 3/18/98 |          | Prep Date: |             |      |          |      |
|---------------------------|--------|-----------------------|--------------------|--------------|------------------------|----------|------------|-------------|------|----------|------|
| Client ID:                |        | 9803032               | Run ID:            | GC-1_980318A | SeqNo: 65              |          |            |             |      |          |      |
| Analyte                   | Result | PQL                   | SPK value          | SPK Ref Val  | %REC                   | LowLimit | HighLimit  | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene                   | 20.7   | 0.5                   | 20                 | 0            | 103.5%                 | 85       | 115        |             |      |          |      |
| Ethylbenzene              | 21.21  | 0.5                   | 20                 | 0            | 106.1%                 | 85       | 115        |             |      |          |      |
| m,p-Xylene                | 40.18  | 1                     | 40                 | 0            | 100.4%                 | 85       | 115        |             |      |          |      |
| o-Xylene                  | 20.82  | 0.5                   | 20                 | 0            | 104.1%                 | 85       | 115        |             |      |          |      |
| Toluene                   | 20.52  | 0.5                   | 20                 | 0            | 102.6%                 | 85       | 115        |             |      |          |      |
| 1,4-Difluorobenzene       | 93.39  | 0                     | 100                | 0            | 93.4%                  | 70       | 130        |             |      |          |      |
| 4-Bromochlorobenzene      | 88.96  | 0                     | 100                | 0            | 89.0%                  | 70       | 130        |             |      |          |      |
| Fluorobenzene             | 92.26  | 0                     | 100                | 0            | 92.3%                  | 70       | 130        |             |      |          |      |

### Qualifiers:

N/D - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
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B - Analyte detected in the associated Method Blank

# On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Method Blank

|                |                       |                      |             |                        |            |          |           |             |      |          |      |
|----------------|-----------------------|----------------------|-------------|------------------------|------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB1 | Batch ID: GC-1_980319 | Test Code: SW8020A   | Units: µg/L | Analysis Date: 3/19/98 | Prep Date: |          |           |             |      |          |      |
| Client ID:     | 9803032               | Run ID: GC-1_980319A |             | SeqNo: 93              |            |          |           |             |      |          |      |
| Analyte        | Result                | PQL                  | SPK value   | SPK Ref Val            | %REC       | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Benzene        | .1309                 |                      | 0.5         |                        |            |          |           |             |      |          | J    |
| Ethylbenzene   | .1039                 |                      | 0.5         |                        |            |          |           |             |      |          | J    |
| m,p-Xylene     | .2979                 |                      | 1           |                        |            |          |           |             |      |          | J    |
| o-Xylene       | .1068                 |                      | 0.5         |                        |            |          |           |             |      |          | J    |
| Toluene        | .1636                 |                      | 0.5         |                        |            |          |           |             |      |          | J    |

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# On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Sample Matrix Spike

| Sample ID: 9803032-06AMS   |        | Batch ID: GC-1_980319 | Test Code: SW8020A | Units: µg/L | Analysis Date: 3/19/98 |           | Prep Date: |
|----------------------------|--------|-----------------------|--------------------|-------------|------------------------|-----------|------------|
| Client ID: 9803101045; MW- |        | Run ID: 9803032       | PQL                | SPK value   | GC-1_980319A           | SeqNo: 94 |            |
| Analyte                    | Result |                       |                    | SPK Ref Val | %REC                   | LowLimit  | HighLimit  |
| Benzene                    | 942.9  |                       | 10                 | 800         | 105.3                  | 104.7%    | 56         |
| Ethylbenzene               | 921.7  |                       | 10                 | 800         | 92.88                  | 103.6%    | 78         |
| m,p-Xylene                 | 2403   |                       | 20                 | 1600        | 765.4                  | 102.4%    | 67         |
| o-Xylene                   | 957.2  |                       | 10                 | 800         | 124                    | 104.2%    | 78         |
| Toluene                    | 937.4  |                       | 10                 | 800         | 108.7                  | 103.6%    | 74         |
|                            |        |                       |                    |             |                        |           | 116        |

| Sample ID: 9803032-06AMSD  |        | Batch ID: GC-1_980319 | Test Code: SW8020A | Units: µg/L | Analysis Date: 3/19/98 |           | Prep Date: |
|----------------------------|--------|-----------------------|--------------------|-------------|------------------------|-----------|------------|
| Client ID: 9803101045; MW- |        | Run ID: 9803032       | PQL                | SPK value   | GC-1_980319A           | SeqNo: 95 |            |
| Analyte                    | Result |                       |                    | SPK Ref Val | %REC                   | LowLimit  | HighLimit  |
| Benzene                    | 891.1  |                       | 10                 | 800         | 105.3                  | 98.2%     | 56         |
| Ethylbenzene               | 893.1  |                       | 10                 | 800         | 92.88                  | 100.0%    | 78         |
| m,p-Xylene                 | 2296   |                       | 20                 | 1600        | 765.4                  | 95.7%     | 67         |
| o-Xylene                   | 907.8  |                       | 10                 | 800         | 124                    | 98.0%     | 78         |
| Toluene                    | 886.7  |                       | 10                 | 800         | 108.7                  | 97.2%     | 74         |
|                            |        |                       |                    |             |                        |           | 116        |

### Qualifiers:

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

## QC SUMMARY REPORT

Work Order: 9803032

Laboratory Control Spike - generic

Project: Zachry 18E

| Sample ID: LCS WATER | Batch ID: GC-1_980319 | Test Code: SW8020A | Units: µg/L | Analysis Date: 3/19/98 | Prep Date: |
|----------------------|-----------------------|--------------------|-------------|------------------------|------------|
| Client ID: 9803032   | Run ID: 9803032       | PQL                | SPK value   | SeqNo: 92              |            |
| Analyte              | Result                | SPK Ref Val        | %REC        | LowLimit               | HighLimit  |
| Benzene              | 41.51                 | 0.5                | 103.4%      | 39                     | 150        |
| Ethylbenzene         | 42.39                 | 0.5                | 105.7%      | 32                     | 160        |
| m,p-Xylene           | 80.93                 | 1                  | 100.8%      | 35                     | 145        |
| o-Xylene             | 41.37                 | 0.5                | 103.2%      | 35                     | 145        |
| Toluene              | 41.16                 | 0.5                | 102.5%      | 46                     | 148        |

### Qualifiers:

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

| Sample ID: CCV1 QC0529/30 |        | Batch ID: GC-1_980319 |           | Test Code: SW8020A   |        | Units: µg/L |           | Analysis Date: 3/19/98 |      | Prep Date: |      |
|---------------------------|--------|-----------------------|-----------|----------------------|--------|-------------|-----------|------------------------|------|------------|------|
| Client ID:                |        | 9803032               |           | Run ID: GC-1_980319A |        |             |           | SeqNo: 87              |      |            |      |
| Analyte                   | Result | PQL                   | SPK value | SPK Ref Val          | %REC   | LowLimit    | HighLimit | RPD Ref Val            | %RPD | RPDLimit   | Qual |
| Benzene                   | 20.65  | 0.5                   | 20        | 0                    | 103.3% | 85          | 115       |                        |      |            |      |
| Ethylbenzene              | 20.65  | 0.5                   | 20        | 0                    | 103.2% | 85          | 115       |                        |      |            |      |
| m,p-Xylene                | 39.56  | 1                     | 40        | 0                    | 98.9%  | 85          | 115       |                        |      |            |      |
| o-Xylene                  | 20.62  | 0.5                   | 20        | 0                    | 103.1% | 85          | 115       |                        |      |            |      |
| Toluene                   | 20.4   | 0.5                   | 20        | 0                    | 102.0% | 85          | 115       |                        |      |            |      |
| 1,4-Difluorobenzene       | 93.88  | 0                     | 100       | 0                    | 93.9%  | 70          | 130       |                        |      |            |      |
| 4-Bromochlorobenzene      | 90.08  | 0                     | 100       | 0                    | 90.1%  | 70          | 130       |                        |      |            |      |
| Fluorobenzene             | 92.88  | 0                     | 100       | 0                    | 92.9%  | 70          | 130       |                        |      |            |      |

|                           |  |                       |  |                    |  |             |  |                        |  |            |  |           |  |             |  |      |  |          |  |      |  |
|---------------------------|--|-----------------------|--|--------------------|--|-------------|--|------------------------|--|------------|--|-----------|--|-------------|--|------|--|----------|--|------|--|
| Sample ID: CCV2 QC0529/30 |  | Batch ID: GC-1_980319 |  | Test Code: SW8020A |  | Units: µg/L |  | Analysis Date: 3/19/98 |  | Prep Date: |  |           |  |             |  |      |  |          |  |      |  |
| Client ID: 9803032        |  | Run ID: GC-1_980319A  |  | PQL                |  | SPK value   |  | SeqNo: 88              |  |            |  |           |  |             |  |      |  |          |  |      |  |
| Analyte                   |  | Result                |  |                    |  |             |  | %REC                   |  | LowLimit   |  | HighLimit |  | RPD Ref Val |  | %RPD |  | RPDLimit |  | Qual |  |
| Benzene                   |  | 21.63                 |  | 0.5                |  | 20          |  | 0                      |  | 108.2%     |  | 85        |  | 115         |  |      |  |          |  |      |  |
| Ethylbenzene              |  | 22.12                 |  | 0.5                |  | 20          |  | 0                      |  | 110.6%     |  | 85        |  | 115         |  |      |  |          |  |      |  |
| m,m,p-Xylene              |  | 41.81                 |  | 1                  |  | 40          |  | 0                      |  | 104.5%     |  | 85        |  | 115         |  |      |  |          |  |      |  |
| o-Xylene                  |  | 21.67                 |  | 0.5                |  | 20          |  | 0                      |  | 108.3%     |  | 85        |  | 115         |  |      |  |          |  |      |  |
| Toluene                   |  | 21.33                 |  | 0.5                |  | 20          |  | 0                      |  | 106.6%     |  | 85        |  | 115         |  |      |  |          |  |      |  |
| 1,4-Difluorobenzene       |  | 94.01                 |  | 0                  |  | 100         |  | 0                      |  | 94.0%      |  | 70        |  | 130         |  |      |  |          |  |      |  |
| 4-Bromochlorobenzene      |  | 91.89                 |  | 0                  |  | 100         |  | 0                      |  | 91.9%      |  | 70        |  | 130         |  |      |  |          |  |      |  |
| Fluorobenzene             |  | 92.94                 |  | 0                  |  | 100         |  | 0                      |  | 92.9%      |  | 70        |  | 130         |  |      |  |          |  |      |  |

### 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

CLIENT: PNM - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

## QC SUMMARY REPORT

Continuing Calibration Verification Standard

| Sample ID: CCV3 QC0529/30 |        | Batch ID: GC-1_980319 |           | Test Code: SW8020A   |        | Units: µg/L |           | Analysis Date: 3/19/98 |      | Prep Date: |      |
|---------------------------|--------|-----------------------|-----------|----------------------|--------|-------------|-----------|------------------------|------|------------|------|
| Client ID:                |        | 9803032               |           | Run ID: GC-1_980319A |        |             |           | SeqNo: 89              |      |            |      |
| Analyte                   | Result | PQL                   | SPK value | SPK Ref Val          | %REC   | LowLimit    | HighLimit | RPD Ref Val            | %RPD | RPDLimit   | Qual |
| Benzene                   | 20.44  | 0.5                   | 20        | 0                    | 102.2% | 85          | 115       |                        |      |            |      |
| Ethylbenzene              | 20.82  | 0.5                   | 20        | 0                    | 104.1% | 85          | 115       |                        |      |            |      |
| m,p-Xylene                | 39.42  | 1                     | 40        | 0                    | 98.6%  | 85          | 115       |                        |      |            |      |
| o-Xylene                  | 20.48  | 0.5                   | 20        | 0                    | 102.4% | 85          | 115       |                        |      |            |      |
| Toluene                   | 20.22  | 0.5                   | 20        | 0                    | 101.1% | 85          | 115       |                        |      |            |      |
| 1,4-Difluorobenzene       | 93.73  | 0                     | 100       | 0                    | 93.7%  | 70          | 130       |                        |      |            |      |
| 4-Bromochlorobenzene      | 89.69  | 0                     | 100       | 0                    | 89.7%  | 70          | 130       |                        |      |            |      |
| Fluorobenzene             | 92.81  | 0                     | 100       | 0                    | 92.8%  | 70          | 130       |                        |      |            |      |

| Sample ID: CCV4 QC0529/30 |        | Batch ID: GC-1_980319 |           | Test Code: SW8020A |        | Units: µg/L  |           | Analysis Date: 3/19/98 |      |          | Prep Date:   |  |
|---------------------------|--------|-----------------------|-----------|--------------------|--------|--------------|-----------|------------------------|------|----------|--------------|--|
| Client ID:                |        | 9803032               |           | Run ID:            |        | GC-1_980319A |           | SeqNo: 90              |      |          |              |  |
| Analyte                   | Result | PQL                   | SPK value | SPK Ref Val        | %REC   | LowLimit     | HighLimit | RPD Ref Val            | %RPD | RPDLimit | Qual         |  |
| Benzene                   | 20.52  | 0.5                   | 20        | 0                  | 102.6% | 85           | 115       |                        |      |          | Satisfactory |  |
| Ethylbenzene              | 23.27  | 0.5                   | 20        | 0                  | 116.4% | 85           | 115       |                        |      |          |              |  |
| m,p-Xylene                | 42.37  | 1                     | 40        | 0                  | 105.9% | 85           | 115       |                        |      |          |              |  |
| o-Xylene                  | 22.3   | 0.5                   | 20        | 0                  | 111.5% | 85           | 115       |                        |      |          |              |  |
| Toluene                   | 20.38  | 0.5                   | 20        | 0                  | 101.9% | 85           | 115       |                        |      |          |              |  |
| 1,4-Difluorobenzene       | 93.65  | 0                     | 100       | 0                  | 93.7%  | 70           | 130       |                        |      |          | Satisfactory |  |
| 4-Bromochlorobenzene      | 90.57  | 0                     | 100       | 0                  | 90.6%  | 70           | 130       |                        |      |          |              |  |
| Fluorobenzene             | 92.76  | 0                     | 100       | 0                  | 92.8%  | 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 - Public Service Company of NM

Work Order: 9803032

Project: Zachry 18E

# QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV5 QC0529/30 Batch ID: GC-1\_980319 Test Code: SW8020A Units: µg/L

Analysis Date: 3/19/98

Prep Date:

Client ID: 9803032 Run ID: GC-1\_980319A

SeqNo: 91

| Analyte              | Result | PQL | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|----------------------|--------|-----|-----------|-------------|--------|----------|-----------|-------------|------|----------|------|
| Benzene              | 21.33  | 0.5 | 20        | 0           | 106.6% | 85       | 115       |             |      |          |      |
| Ethylbenzene         | 21.29  | 0.5 | 20        | 0           | 106.5% | 85       | 115       |             |      |          |      |
| m,p-Xylene           | 40.57  | 1   | 40        | 0           | 101.4% | 85       | 115       |             |      |          |      |
| o-Xylene             | 21.49  | 0.5 | 20        | 0           | 107.4% | 85       | 115       |             |      |          |      |
| Toluene              | 21.12  | 0.5 | 20        | 0           | 105.6% | 85       | 115       |             |      |          |      |
| 1,4-Difluorobenzene  | 93.61  | 0   | 100       | 0           | 93.6%  | 70       | 130       |             |      |          |      |
| 4-Bromochlorobenzene | 87.33  | 0   | 100       | 0           | 87.3%  | 70       | 130       |             |      |          |      |
| Fluorobenzene        | 92.92  | 0   | 100       | 0           | 92.9%  | 70       | 130       |             |      |          |      |

Qualifiers:

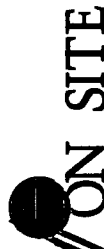
ND - Not Detected at the Reporting Limit

J Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

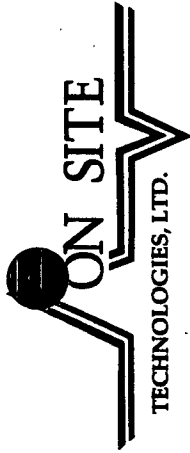
B - Analyte detected in the associated Method Blank



Date: 01/07/13

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

[illegible]



# CHAIN OF CUSTODY RECORD

Page: 1 of 1

Date: 10/19

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: Denver Bearden                      |      | Title: Maureen Gannon                            |  |
| Company: PNM Gas Services                 |      | Company: PNM Gas Services                        |  |
| Address: 603 W. Elm Street                |      | Mailing Address: Alverado Square, Mail Stop 0408 |  |
| City, State, Zip: Farmington, NM 87401    |      | City, State, Zip: Albuquerque, NM 87158          |  |
|                                           |      | Telephone No.: 505-848-2974                      |  |
|                                           |      | Telefax No.:                                     |  |
| SEND INVOICE TO                           |      | REPORT RESULTS TO                                |  |
| Sampling Location: Zachry 18E             |      | Number of Containers                             |  |
| Sampler: R. Dedrick                       |      | ANALYSIS REQUESTED                               |  |
| SAMPLE IDENTIFICATION                     |      | LAB ID                                           |  |
| DATE                                      | TIME |                                                  |  |
| 7/30/00                                   | 0930 |                                                  |  |
| 7/30/00                                   | 0945 |                                                  |  |
| 7/30/00                                   | 1000 |                                                  |  |
| 7/30/00                                   | 1030 |                                                  |  |
| 7/30/00                                   | 1015 |                                                  |  |
| 7/30/00                                   | 1045 |                                                  |  |
| Relinquished by: R. Dedrick               |      | Received by:                                     |  |
| Date/Time: 7/30/00 1047                   |      | Date/Time:                                       |  |
| Relinquished by:                          |      | Received by:                                     |  |
| Date/Time:                                |      | Date/Time:                                       |  |
| Relinquished by:                          |      | Received by:                                     |  |
| Date/Time:                                |      | Date/Time:                                       |  |
| Method of Shipment:                       |      | Special Instructions:                            |  |
| Authorized by: R. Dedrick                 |      | Results to be sent to both parties.              |  |
| Date: 10/19/00                            |      |                                                  |  |
| (Client Signature Must Accompany Request) |      |                                                  |  |
| Rush                                      |      | 24-48 Hours                                      |  |
| 10 Working Days                           |      |                                                  |  |