

**BROOKHAVEN**  
NATIONAL LABORATORY

Managed by Brookhaven Science Associates  
for the U.S. Department of Energy

December 8, 2003

Ms. Kathleen Newcomer  
Suffolk County Department of Health Services  
Drinking Water Supply Section  
220 Rabro Drive East  
Hauppauge, New York 11788

Dear Ms. Kathleen Newcomer:

**Subject: Monthly Water Treatment Plant Reports**  
**Reference: Suffolk County Minimum Monitoring Requirements for November 2003**

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2003 SCDHS Minimum Monitoring Requirements for the BNL Potable Water Supply, included please find the following attachments for your records:

- Attachment I: BNL Potable Water Monthly Operational Data and Bacteriological Analyses for November.
- Attachment II: November 2003 Biweekly Quarter Water Quality Monitoring Data for the BNL Distribution System.
- Attachment III: 2003 Fourth Quarter Radiological Analyses for the BNL Potable Water Wells

All analytical results have been reviewed and have been found to be within New York State Department of Health Drinking Water Standards (NYSDOH DWS). Collection and analysis of these samples are performed in accordance with the guidelines of the BNL Quality Assurance program, the SCDHS Community Water Supply Monitoring Requirements, and the BNL Potable Water System Sampling Plan. Plant Engineering Division personnel using standard operating procedures collect routine monitoring samples; a contractor laboratory using standard methods of analysis performs the subsequent analyses.

The Quality Assurance documentation is available from the Environmental and Waste Management Services Division and Plant Engineering Divisions. Based on this information, we believe the values contained in these reports are representative of the BNL potable water system.



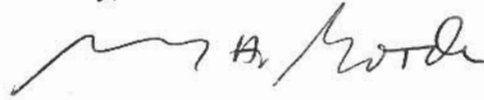
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National Standards Institute  
Registrar Accreditation Board

Should there be any questions regarding this report or the analytical or operational data contained herein, please call either M. Allocco at (631) 344-3166, R. Lee at (631) 344-3148, or W. Chaloupka at (631) 344-7136.

Sincerely,



George A. Goode  
Environmental & Waste Management Services  
Division Manager

GAG/MA:car

Attachments: As noted

|     |                          |                 |
|-----|--------------------------|-----------------|
| cc: | M. Allocco               | w/attachments   |
|     | L. Ambroszkiewicz, SCDHS | w/attachments   |
|     | W. Chaloupka             | w/attachments   |
|     | J. Granzen               | w/attachments   |
|     | G. Goode                 | w/o attachments |
|     | R. Lee                   | w/attachments   |
|     | E. Murphy                | w/attachments   |
|     | P. Ponturo, SCDHS        | w/o attachments |
|     | L. Ross                  | w/o attachments |
|     | J. Tarpinian             | w/o attachments |

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**ATTACHMENT I**

**Brookhaven National Laboratory**

**Potable Water Supply**

**Monthly Operational Data and Bacteriological Analyses for November 2003**

**for the BNL Potable Water System**

# BROOKHAVEN NATIONAL LABORATORY

## WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

|                  |                  |                |                            |
|------------------|------------------|----------------|----------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD: NOV 2003 |
|------------------|------------------|----------------|----------------------------|

LOCATION: **Water Treatment Facility**

Did an emergency occur in any part of the water system? YES  NO

Source: Ground Water

Does the system have a chlorination waiver? YES  NO

| Day of<br>month | CHLORINATION               |                            |                      |                              | pH                          |           | Totalizer<br>Daily Totalizer |
|-----------------|----------------------------|----------------------------|----------------------|------------------------------|-----------------------------|-----------|------------------------------|
|                 | Treated<br>Water<br>K Gals | Liquid Sodium Hypochlorite |                      | Free Cl2<br>Residual<br>mg/l | Lime<br>Sodium<br>Hydroxide | Totalizer |                              |
|                 |                            | Gallons                    | Cl2 use<br>per 24hrs |                              |                             |           |                              |
| 1               | 0                          |                            |                      |                              |                             |           |                              |
| 2               | 0                          |                            |                      |                              |                             |           |                              |
| 3               | 2,757                      | 80                         | 20                   | 0.53                         | 7.3                         | 13028961  |                              |
| 4               | 1,081                      | 70                         | 10                   | 0.62                         | 7.3                         | 13030042  |                              |
| 5               | 930                        | 60                         | 10                   | 1                            | 7.5                         | 13030972  |                              |
| 6               | 937                        | 50                         | 10                   | 0.5                          | 7.8                         | 13031909  |                              |
| 7               | 865                        | 40+40                      | 10                   | 0.83                         | 7.7                         | 13032774  |                              |
| 8               | 0                          |                            |                      |                              |                             |           |                              |
| 9               | 0                          |                            |                      |                              |                             |           |                              |
| 10              | 2,296                      | 65+135                     | 15                   | 0.61                         | 7.3                         | 13035070  |                              |
| 11              | 0                          |                            |                      |                              |                             |           |                              |
| 12              | 1,777                      | 183                        | 17                   | 0.75                         | 7.6                         | 13036847  |                              |
| 13              | 844                        | 175                        | 8                    | 0.98                         | 7.7                         | 13037691  |                              |
| 14              | 936                        | 170                        | 5                    | 0.91                         | 7.3                         | 13038627  |                              |
| 15              | 0                          |                            |                      |                              |                             |           |                              |
| 16              | 0                          |                            |                      |                              |                             |           |                              |
| 17              | 2,997                      | 141+59                     | 29                   | 1.03                         | 7.2                         | 13041624  |                              |
| 18              | 808                        | 190                        | 10                   | 0.75                         | 7.6                         | 13042432  |                              |
| 19              | 576                        | 190                        | 0                    | 0.35                         | 7.6                         | 13043008  |                              |
| 20              | 1,130                      | 182                        | 8                    | 0.6                          | 7.6                         | 13044138  |                              |
| 21              | 1,032                      | 178                        | 4                    | 0.8                          | 7.6                         | 13045170  |                              |
| 22              | 0                          |                            |                      |                              |                             |           |                              |
| 23              | 0                          |                            |                      |                              |                             |           |                              |
| 24              | 2,936                      | 155                        | 23                   | 1.2                          | 7.3                         | 13048106  |                              |
| 25              | 970                        | 150                        | 5                    | 0.91                         | 7.3                         | 13049076  |                              |
| 26              | 884                        | 140                        | 10                   | 1.1                          | 7.3                         | 13049960  |                              |
| 27              | 0                          |                            |                      |                              |                             |           |                              |
| 28              | 1,667                      | 130                        | 10                   | 0.89                         | 7.2                         | 13051627  |                              |
| 29              | 0                          |                            |                      |                              |                             |           |                              |
| 30              | 2,680                      | 105                        | 25                   | 1.01                         | 7.3                         | 13054307  |                              |
| 31              | 0                          |                            |                      |                              |                             |           |                              |
| TOT             | 28,103                     |                            | 229                  |                              |                             |           |                              |
| AVG.            | 936.77                     |                            | 7.63                 | No. Days:                    | 30                          |           |                              |

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *[Signature]*

Date: 12-4-03

Title: Water Systems Supervisor

Certification No. NY0031941

# BROOKHAVEN NATIONAL LABORATORY

## WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

|                  |                  |                |                            |
|------------------|------------------|----------------|----------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD: NOV 2003 |
|------------------|------------------|----------------|----------------------------|

LOCATION: WELL NO. 4

Did an emergency occur in any part of the water system? YES  NO

Source: Ground Water

Does the system have a chlorination waiver? YES  NO

| Day of month | CHLORINATION            |                            |                                  |  | pH                          |         | Totalizer<br>Daily Totalizer<br>1630302 |
|--------------|-------------------------|----------------------------|----------------------------------|--|-----------------------------|---------|---|
|              | Treated Water<br>K Gals | Liquid Sodium Hypochlorite |                                  | Free Cl <sub>2</sub><br>Residual<br>mg/l | Lime<br>Sodium<br>Hydroxide |         |   |
|              |                         | Gallons                    | Cl <sub>2</sub> use<br>per 24hrs |  |                             |         |   |
| 1            | 0                       |                            |                                  |  |                             |         |   |
| 2            | 0                       |                            |                                  |  |                             |         |   |
| 3            | 1,221                   | 126                        | 24                               | 0.26                                     | 6.2                         | 1631523 |   |
| 4            | 462                     | 117                        | 9                                | 0.23                                     | 5.9                         | 1631985 |   |
| 5            | 369                     | 108                        | 9                                | 0.018                                    | 5.9                         | 1632354 |   |
| 6            | 327                     | 102+36                     | 6                                | 0.36                                     | 5.9                         | 1632681 |   |
| 7            | 301                     | 135                        | 3                                | 0.28                                     | 5.9                         | 1632982 |   |
| 8            | 0                       |                            |                                  |  |                             |         |   |
| 9            | 0                       |                            |                                  |  |                             |         |   |
| 10           | 971                     | 114                        | 21                               | 0.24                                     | 6                           | 1633953 |   |
| 11           | 0                       |                            |                                  |  |                             |         |   |
| 12           | 612                     | 102                        | 12                               | 0.018                                    | 6                           | 1634565 |   |
| 13           | 387                     | 93                         | 9                                | 0.24                                     | 6                           | 1634952 |   |
| 14           | 331                     | 90                         | 3                                | 1.2                                      | 6.2                         | 1635283 |   |
| 15           | 0                       |                            |                                  |  |                             |         |   |
| 16           | 0                       |                            |                                  |  |                             |         |   |
| 17           | 543                     | 84+66                      | 6                                | 0.32                                     | 6.2                         | 1635826 |   |
| 18           | 253                     | 141                        | 9                                | 0.29                                     | 6                           | 1636079 |   |
| 19           | 288                     | 135                        | 6                                | 0.36                                     | 6                           | 1636367 |   |
| 20           | 291                     | 126                        | 9                                | 0.32                                     | 6                           | 1636658 |   |
| 21           | 459                     | 117+33                     | 9                                | 0.37                                     | 6                           | 1637117 |   |
| 22           | 0                       |                            |                                  |  |                             |         |   |
| 23           | 0                       |                            |                                  |  |                             |         |   |
| 24           | 1,039                   | 123                        | 27                               | 0.45                                     | 6.2                         | 1638156 |   |
| 25           | 393                     | 114                        | 9                                | 0.29                                     | 6.1                         | 1638549 |   |
| 26           | 285                     | 108                        | 6                                | 0.43                                     | 6.2                         | 1638834 |   |
| 27           | 0                       |                            |                                  |  |                             |         |   |
| 28           | 836                     | 90+60                      | 18                               | 0.23                                     | 6.2                         | 1639670 |   |
| 29           | 0                       |                            |                                  |  |                             |         |   |
| 30           | 935                     | 123                        | 27                               | 0.14                                     | 6.1                         | 1640605 |   |
| 31           | 0                       |                            |                                  |  |                             |         |   |
| TOT          | 10,303                  |                            | 222                              |  |                             |         |   |
| AVG.         | 343.43                  |                            | 7.40                             | No. Days:                                | 30                          |         |   |

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *Lo Noy*

Date: 12-9-03

Title: Water Systems Supervisor

Certification No. NY0031941

# BROOKHAVEN NATIONAL LABORATORY

## WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

|                  |                  |                |                            |
|------------------|------------------|----------------|----------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD: NOV 2003 |
|------------------|------------------|----------------|----------------------------|

LOCATION: WELL NO. 6

Did an emergency occur in any part of the water system? YES  NO

Source: Ground Water

Does the system have a chlorination waiver? YES  NO

| Day of month | CHLORINATION            |                            |                                  |  | pH                          |           | Totalizer<br>Daily Totalizer |
|--------------|-------------------------|----------------------------|----------------------------------|--|-----------------------------|-----------|------------------------------|
|              | Treated Water<br>K Gals | Liquid Sodium Hypochlorite |                                  | Free Cl <sub>2</sub><br>Residual<br>mg/l | Lime<br>Sodium<br>Hydroxide | Totalizer |                              |
|              |                         | Gallons                    | Cl <sub>2</sub> use<br>per 24hrs |  |                             |           |                              |
| 1            | 0                       |                            |                                  |  |                             |           |                              |
| 2            | 0                       |                            |                                  |  |                             |           |                              |
| 3            | 604                     | 108                        | 15                               | 0.26                                     | 6.2                         | 409303    |                              |
| 4            | 188                     | 105                        | 3                                | 0.23                                     | 5.9                         | 409491    |                              |
| 5            | 121                     | 102                        | 3                                | 0.018                                    | 5.9                         | 409612    |                              |
| 6            | 40                      | 99+39                      | 3                                | 0.36                                     | 5.9                         | 409652    |                              |
| 7            | 95                      | 132                        | 8                                | 0.28                                     | 5.9                         | 409747    |                              |
| 8            | 0                       |                            |                                  |  |                             |           |                              |
| 9            | 0                       |                            |                                  |  |                             |           |                              |
| 10           | 288                     | 126                        | 6                                | 0.24                                     | 6                           | 410035    |                              |
| 11           | 0                       |                            |                                  |  |                             |           |                              |
| 12           | 242                     | 123                        | 3                                | 0.018                                    | 6                           | 410277    |                              |
| 13           | 165                     | 120                        | 3                                | 0.24                                     | 6                           | 410442    |                              |
| 14           | 191                     | 114                        | 6                                | 1.2                                      | 6.2                         | 410633    |                              |
| 15           | 0                       |                            |                                  |  |                             |           |                              |
| 16           | 0                       |                            |                                  |  |                             |           |                              |
| 17           | 1,128                   | 84                         | 30                               | 0.32                                     | 6.2                         | 411761    |                              |
| 18           | 104                     | 81                         | 3                                | 0.29                                     | 6                           | 411865    |                              |
| 19           | 269                     | 75                         | 6                                | 0.36                                     | 6                           | 412134    |                              |
| 20           | 64                      | 72                         | 3                                | 0.32                                     | 6                           | 412198    |                              |
| 21           | 271                     | 63+69                      | 9                                | 0.37                                     | 6                           | 412469    |                              |
| 22           | 0                       |                            |                                  |  |                             |           |                              |
| 23           | 0                       |                            |                                  |  |                             |           |                              |
| 24           | 505                     | 120                        | 12                               | 0.45                                     | 6.2                         | 412974    |                              |
| 25           | 245                     | 114                        | 6                                | 0.29                                     | 6.1                         | 413219    |                              |
| 26           | 123                     | 111                        | 3                                | 0.43                                     | 6.2                         | 413342    |                              |
| 27           | 0                       |                            |                                  |  |                             |           |                              |
| 28           | 345                     | 105+27                     | 6                                | 0.23                                     | 6.2                         | 413667    |                              |
| 29           | 0                       |                            |                                  |  |                             |           |                              |
| 30           | 486                     | 123                        | 5                                | 0.14                                     | 6.1                         | 414173    |                              |
| 31           | 0                       |                            |                                  |  |                             |           |                              |
| TOT          | 5,474                   |                            | 133                              |  |                             |           |                              |
| AVG.         | 182.47                  |                            | 4.43                             | No. Days:                                | 30                          |           |                              |

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *JIC*

Date: 12-4-03

Title: Water Systems Supervisor

Certification No. NY0031941

# BROOKHAVEN NATIONAL LABORATORY

## WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

|                  |                  |                |                            |
|------------------|------------------|----------------|----------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD: NOV 2003 |
|------------------|------------------|----------------|----------------------------|

LOCATION: WELL NO. 7

Did an emergency occur in any part of the water system? YES  NO

Source: Ground Water

Does the system have a chlorination waiver? YES  NO

| Day of month | CHLORINATION            |                            |                      |                              | pH                          |           | Totalizer<br>Daily Totalizer<br>1274163 |
|--------------|-------------------------|----------------------------|----------------------|------------------------------|-----------------------------|-----------|---|
|              | Treated Water<br>K Gals | Liquid Sodium Hypochlorite |                      | Free Cl2<br>Residual<br>mg/l | pH                          |           |   |
|              |                         | Gallons                    | Cl2 use<br>per 24hrs |                              | Lime<br>Sodium<br>Hydroxide | Totalizer |   |
| 1            | 0                       |                            |                      |                              |                             |           |   |
| 2            | 0                       |                            |                      |                              |                             |           |   |
| 3            | 3,082                   | 102                        | 48                   | 0.26                         | 6.2                         |           | 1277245                                 |
| 4            | 1,260                   | 84                         | 18                   | 0.23                         | 5.9                         |           | 1278505                                 |
| 5            | 995                     | 69                         | 15                   | 0.018                        | 5.9                         |           | 1279500                                 |
| 6            | 1,240                   | 47+103                     | 18                   | 0.36                         | 5.9                         |           | 1280740                                 |
| 7            | 1,170                   | 129                        | 21                   | 0.28                         | 5.9                         |           | 1281910                                 |
| 8            | 0                       |                            |                      |                              |                             |           |   |
| 9            | 0                       |                            |                      |                              |                             |           |   |
| 10           | 2,494                   | 90                         | 39                   | 0.24                         | 6                           |           | 1284404                                 |
| 11           | 0                       |                            |                      |                              |                             |           |   |
| 12           | 2,000                   | 57                         | 33                   | 0.018                        | 6                           |           | 1286404                                 |
| 13           | 919                     | 45+105                     | 12                   | 0.24                         | 6                           |           | 1287323                                 |
| 14           | 985                     | 138                        | 12                   | 1.2                          | 6.2                         |           | 1288308                                 |
| 15           | 0                       |                            |                      |                              |                             |           |   |
| 16           | 0                       |                            |                      |                              |                             |           |   |
| 17           | 3,608                   | 78+72                      | 60                   | 0.32                         | 6.2                         |           | 1291916                                 |
| 18           | 928                     | 126                        | 24                   | 0.29                         | 6                           |           | 1292844                                 |
| 19           | 650                     | 120                        | 6                    | 0.36                         | 6                           |           | 1293494                                 |
| 20           | 1,218                   | 99                         | 21                   | 0.32                         | 6                           |           | 1294712                                 |
| 21           | 1,232                   | 81+69                      | 18                   | 0.37                         | 6                           |           | 1295944                                 |
| 22           | 0                       |                            |                      |                              |                             |           |   |
| 23           | 0                       |                            |                      |                              |                             |           |   |
| 24           | 3,245                   | 96                         | 54                   | 0.45                         | 6.2                         |           | 1299189                                 |
| 25           | 1,102                   | 78                         | 18                   | 0.29                         | 6.1                         |           | 1300291                                 |
| 26           | 885                     | 66                         | 12                   | 0.43                         | 6.2                         |           | 1301176                                 |
| 27           | 0                       |                            |                      |                              |                             |           |   |
| 28           | 1,769                   | 36+114                     | 30                   | 0.23                         | 6.2                         |           | 1302945                                 |
| 29           | 0                       |                            |                      |                              |                             |           |   |
| 30           | 2,990                   | 102                        | 48                   | 0.14                         | 6.1                         |           | 1305935                                 |
| 31           | 0                       |                            |                      |                              |                             |           |   |
| TOT          | 31,772                  |                            | 507                  |                              |                             |           |   |
| AVG.         | 1059.07                 |                            | 16.90                | No. Days:                    | 30                          |           |   |

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: *[Signature]*

Date: 12-4-23

Title: Water Systems Supervisor

Certification No. NY0031941

# BROOKHAVEN NATIONAL LABORATORY

## WATER SYSTEMS OPERATION REPORT

**PUBLIC WATER SUPPLY PROTECTION**

|                  |                  |                |                            |
|------------------|------------------|----------------|----------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD: NOV 2003 |
|------------------|------------------|----------------|----------------------------|

LOCATION: WELL NO. 10

Did an emergency occur in any part of the water system? YES  NO

Source: Ground Water

Does the system have a chlorination waiver? YES  NO

| Day of month | CHLORINATION  |                            |                               |           | pH       |                  | Totalizer<br>Daily Totalizer<br>768856 |
|--------------|---------------|----------------------------|-------------------------------|-----------|----------|------------------|--|
|              | Treated Water | Liquid Sodium Hypochlorite | Free Cl <sub>2</sub>          | Lime      | Residual | Sodium Hydroxide |  |
|              | K Gals        | Gallons                    | Cl <sub>2</sub> use per 24hrs | mg/l      |          |                  |  |
| 1            | 0             |                            |                               |           |          |                  |  |
| 2            | 0             |                            |                               |           |          |                  |  |
| 3            | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 4            | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 5            | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 6            | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 7            | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 8            | 0             |                            |                               |           |          |                  |  |
| 9            | 0             |                            |                               |           |          |                  |  |
| 10           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 11           | 0             |                            |                               |           |          |                  |  |
| 12           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 13           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 14           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 15           | 0             |                            |                               |           |          |                  |  |
| 16           | 0             |                            |                               |           |          |                  |  |
| 17           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 18           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 19           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 20           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 21           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 22           | 0             |                            |                               |           |          |                  |  |
| 23           | 0             |                            |                               |           |          |                  |  |
| 24           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 25           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 26           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 27           | 0             |                            |                               |           |          |                  |  |
| 28           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 29           | 0             |                            |                               |           |          |                  |  |
| 30           | 0             | 38                         | 0                             | NR        | NR       | 768856           |  |
| 31           | 0             |                            |                               |           |          |                  |  |
| TOT          | 0             |                            | 0                             |           |          |                  |  |
| AVG.         | 0.00          |                            | 0.00                          | No. Days: | 30       |                  |  |

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by *J.A. R...*

Date 12-04-03

Title: Water Systems Supervisor

Certification No. NY0031941



# BROOKHAVEN NATIONAL LABORATORY

## WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

|                  |                  |                |                            |
|------------------|------------------|----------------|----------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD: NOV 2003 |
|------------------|------------------|----------------|----------------------------|

LOCATION: WELL NO. 11

Did an emergency occur in any part of the water system? YES \_\_\_\_\_ NO X

Source: Ground Water

Does the system have a chlorination waiver? YES \_\_\_\_\_ NO X

| Day of month | CHLORINATION            |                            |                      |                              | pH                          |           | Totalizer<br>Daily Totalizer |
|--------------|-------------------------|----------------------------|----------------------|------------------------------|-----------------------------|-----------|------------------------------|
|              | Treated Water<br>K Gals | Liquid Sodium Hypochlorite |                      | Free Cl2<br>Residual<br>mg/l | Lime<br>Sodium<br>Hydroxide | Totalizer |                              |
|              |                         | Gallons                    | Cl2 use<br>per 24hrs |                              |                             |           |                              |
| 1            | 0                       |                            |                      |                              |                             |           |                              |
| 2            | 0                       |                            |                      |                              |                             |           |                              |
| 3            | 0                       | 82                         | 0                    | NR                           | NR                          | 508337    |                              |
| 4            | 0                       | 82                         | 0                    | 0.37                         | NR                          | 508337    |                              |
| 5            | 22                      | 78                         | 4                    | NR                           | NR                          | 508359    |                              |
| 6            | 0                       | 81                         | 0                    | 0.35                         | 7.5                         | 508359    |                              |
| 7            | 2                       | 80                         | 1                    | NR                           | NR                          | 508361    |                              |
| 8            | 0                       |                            |                      |                              |                             |           |                              |
| 9            | 0                       |                            |                      |                              |                             |           |                              |
| 10           | 0                       | 80                         | 0                    | NR                           | NR                          | 508361    |                              |
| 11           | 0                       |                            |                      |                              |                             |           |                              |
| 12           | 1                       | 80                         | 0                    | NR                           | NR                          | 508362    |                              |
| 13           | 0                       | 80                         | 0                    | NR                           | NR                          | 508362    |                              |
| 14           | 0                       | 80                         | 0                    | NR                           | NR                          | 508362    |                              |
| 15           | 0                       |                            |                      |                              |                             |           |                              |
| 16           | 0                       |                            |                      |                              |                             |           |                              |
| 17           | 5                       | 81                         | 0                    | NR                           | NR                          | 508367    |                              |
| 18           | 80                      | 80+20                      | 1                    | NR                           | NR                          | 508447    |                              |
| 19           | 648                     | 90                         | 10                   | NR                           | NR                          | 509095    |                              |
| 20           | 116                     | 87                         | 3                    | NR                           | NR                          | 509211    |                              |
| 21           | 280                     | 81                         | 6                    | NR                           | NR                          | 509491    |                              |
| 22           | 0                       |                            |                      |                              |                             |           |                              |
| 23           | 0                       |                            |                      |                              |                             |           |                              |
| 24           | 373                     | 81                         | 0                    | NR                           | NR                          | 509864    |                              |
| 25           | 125                     | 81                         | 0                    | NR                           | NR                          | 509989    |                              |
| 26           | 141                     | 81                         | 0                    | NR                           | NR                          | 510130    |                              |
| 27           | 0                       |                            |                      |                              |                             |           |                              |
| 28           | 284                     | 81                         | 0                    | NR                           | NR                          | 510414    |                              |
| 29           | 0                       |                            |                      |                              |                             |           |                              |
| 30           | 485                     | 81                         | 0                    | NR                           | NR                          | 510899    |                              |
| 31           | 0                       |                            |                      |                              |                             |           |                              |
| TOT          | 2,562                   |                            | 25                   |                              |                             |           |                              |
| AVG.         | 85.40                   |                            | 0.83                 | No. Days:                    | 30                          |           |                              |

Population Served 3,500

Number of routine samples 4

(Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES \_\_\_\_\_ NO X

If yes, check reason's below.

\_\_\_\_\_ Actual number of samples fewer than required.

\_\_\_\_\_ Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

\_\_\_\_\_ Failure to analyze repeat samples.

Does an MCL violation exist? YES \_\_\_\_\_ NO X

If yes, check reason(s) below.

\_\_\_\_\_ Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

\_\_\_\_\_ Positive E. Coli result followed by a positive total coliform repeat sample.

\_\_\_\_\_ Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by: JL Math

Date: 12-4-03

Title: Water Systems Supervisor

Certification No. NY0031941

# BROOKHAVEN NATIONAL LABORATORY

## WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

|                  |                  |                |                            |
|------------------|------------------|----------------|----------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD: NOV 2003 |
|------------------|------------------|----------------|----------------------------|

LOCATION: WELL NO. 12

Did an emergency occur in any part of the water system? YES  NO

Source: Ground Water

Does the system have a chlorination waiver? YES  NO

| Day of month | CHLORINATION            |                            |                      |                  | pH   |                  | Totalizer<br>Daily Totalizer<br>648223 |
|--------------|-------------------------|----------------------------|----------------------|------------------|------|------------------|--|
|              | Treated Water<br>K Gals | Liquid Sodium Hypochlorite |                      | Free Cl2         | Lime | Sodium Hydroxide |  |
|              |                         | Gallons                    | Cl2 use<br>per 24hrs | Residual<br>mg/l |      |                  |  |
| 1            | 0                       |                            |                      |                  |      |                  |  |
| 2            | 0                       |                            |                      |                  |      |                  |  |
| 3            | 0                       | 69                         | 0                    | NR               | NR   |                  | 648223                                 |
| 4            | 0                       | 69                         | 0                    | NR               | NR   |                  | 648223                                 |
| 5            | 20                      | 69                         | 0                    | NR               | NR   |                  | 648243                                 |
| 6            | 0                       | 69                         | 0                    | 0.66             | 7.4  |                  | 648243                                 |
| 7            | 2                       | 69                         | 0                    | NR               | NR   |                  | 648245                                 |
| 8            | 0                       |                            |                      |                  |      |                  |  |
| 9            | 0                       |                            |                      |                  |      |                  |  |
| 10           | 0                       | 69                         | 0                    | NR               | NR   |                  | 648245                                 |
| 11           | 0                       |                            |                      |                  |      |                  |  |
| 12           | 0                       | 69                         | 0                    | NR               | NR   |                  | 648245                                 |
| 13           | 0                       | 69                         | 0                    | NR               | NR   |                  | 648245                                 |
| 14           | 0                       | 69                         | 0                    | NR               | NR   |                  | 648245                                 |
| 15           | 0                       |                            |                      |                  |      |                  |  |
| 16           | 0                       |                            |                      |                  |      |                  |  |
| 17           | 3                       | 69                         | 0                    | NR               | NR   |                  | 648248                                 |
| 18           | 72                      | 66                         | 3                    | NR               | NR   |                  | 648320                                 |
| 19           | 1                       | 66                         | 0                    | NR               | NR   |                  | 648321                                 |
| 20           | 53                      | 66                         | 0                    | NR               | NR   |                  | 648374                                 |
| 21           | 0                       | 66                         | 0                    | NR               | NR   |                  | 648374                                 |
| 22           | 0                       |                            |                      |                  |      |                  |  |
| 23           | 0                       |                            |                      |                  |      |                  |  |
| 24           | 0                       | 66                         | 0                    | NR               | NR   |                  | 648374                                 |
| 25           | 3                       | 66                         | 0                    | NR               | NR   |                  | 648377                                 |
| 26           | 0                       | 66                         | 0                    | NR               | NR   |                  | 648377                                 |
| 27           | 0                       |                            |                      |                  |      |                  |  |
| 28           | 0                       | 66                         | 0                    | NR               | NR   |                  | 648377                                 |
| 29           | 0                       |                            |                      |                  |      |                  |  |
| 30           | 0                       | 66                         | 0                    | NR               | NR   |                  | 648377                                 |
| 31           | 0                       |                            |                      |                  |      |                  |  |
| TOT          | 154                     |                            | 3                    |                  |      |                  |  |
| AVG.         | 5.13                    |                            | 0.10                 | No. Days:        | 30   |                  |  |

Population Served 3,500

Number of routine samples 4  
 (Must collect a minimum of 5 routine samples the month following a repeat sample collection)

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

Failure to analyze for E. Coli if there was a positive result for total coliform from routine, repeat of high turbidity sample.

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

Positive E. Coli result followed by a positive total coliform repeat sample.

Positive total coliform result followed by a positive E. Coli repeat sample.

Reported by *[Signature]*

Date 10-09-03

Title: Water Systems Supervisor

Certification No. NY0031941

12/1/2003  
Pump Data

MONTHLY GALLONAGE REPORT  
NOV 2003.xls

| Date                       | Well 4  | Well 6     | Well 7 | Well10     | Well11 | Well12        | Daily Total |
|----------------------------|---------|------------|--------|------------|--------|---------------|-------------|
| 1                          | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 2                          | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 3                          | 1,221   | 604        | 3,082  | 0          | 0      | 0             | 4,907       |
| 4                          | 462     | 188        | 1,260  | 0          | 0      | 0             | 1,910       |
| 5                          | 369     | 121        | 995    | 0          | 22     | 20            | 1,527       |
| 6                          | 327     | 40         | 1,240  | 0          | 0      | 0             | 1,607       |
| 7                          | 301     | 95         | 1,170  | 0          | 2      | 2             | 1,570       |
| 8                          | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 9                          | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 10                         | 971     | 288        | 2,494  | 0          | 0      | 0             | 3,753       |
| 11                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 12                         | 612     | 242        | 2,000  | 0          | 1      | 0             | 2,855       |
| 13                         | 387     | 165        | 919    | 0          | 0      | 0             | 1,471       |
| 14                         | 331     | 191        | 985    | 0          | 0      | 0             | 1,507       |
| 15                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 16                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 17                         | 543     | 1,128      | 3,608  | 0          | 5      | 3             | 5,287       |
| 18                         | 253     | 104        | 928    | 0          | 80     | 72            | 1,437       |
| 19                         | 288     | 269        | 650    | 0          | 648    | 1             | 1,856       |
| 20                         | 291     | 64         | 1,218  | 0          | 116    | 53            | 1,742       |
| 21                         | 459     | 271        | 1,232  | 0          | 280    | 0             | 2,242       |
| 22                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 23                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 24                         | 1,039   | 505        | 3,245  | 0          | 373    | 0             | 5,162       |
| 25                         | 393     | 245        | 1,102  | 0          | 125    | 3             | 1,868       |
| 26                         | 285     | 123        | 885    | 0          | 141    | 0             | 1,434       |
| 27                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 28                         | 836     | 345        | 1,769  | 0          | 284    | 0             | 3,234       |
| 29                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| 30                         | 935     | 486        | 2,990  | 0          | 485    | 0             | 4,896       |
| 31                         | 0       | 0          | 0      | 0          | 0      | 0             | 0           |
| Total                      | 10,303  | 5,474      | 31,772 | 0          | 2,562  | 154           | 50,265      |
|                            |         | Totalizer  |        | Totalizer  |        | Total(x1,000) |             |
|                            |         | This Month |        | Last Month |        | Gallons       |             |
|                            | Well 4  | 1,640,605  |        | 1,630,302  |        | 10,303        |             |
|                            | Well 6  | 414,173    |        | 408,699    |        | 5,474         |             |
|                            | Well 7  | 1,305,935  |        | 1,274,163  |        | 31,772        |             |
|                            | Well 10 | 768,856    |        | 768,856    |        | 0             |             |
|                            | Well 11 | 510,899    |        | 508,337    |        | 2,562         |             |
|                            | Well 12 | 648,377    |        | 648,223    |        | 154           |             |
| AGS Water Supply Meter     |         | 473,366    |        | 471,054    |        | 2312.00       |             |
| Medical Reactor - Well 105 |         |            |        | 0          |        | 0.00          |             |
| Biology Building - Well 9  |         | 6,790,390  |        | 6,789,910  |        | 0.48          |             |

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040, FAX: (631) 420-8436 NYSDOHID#10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM  
70 Bell Ave.  
Upton, NY 11973  
Attn To : S. Scarpitta

Lab No. : 0311158-001

Sample Information...  
Type : Potable Water  
Origin: Dist.

Federal ID 5111891

Client ID. : 17804-001

Collected 11/6/2003 8:46:00 AM Point No 094-273

Received 11/6/2003 3:30:00 PM Location: B-49 Water Tower

Collected By CLIENT

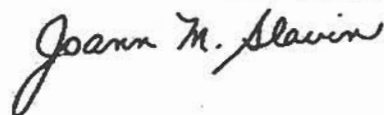
Copy : Original

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| <u>Parameter(s)</u>     | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|-------------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform          | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform              | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |
| Total Residual Chlorine | 0.9            | mg/L         |              | M4500-CI G           | 11/6/2003             |

Result(s) reported meet(s) Regulatory Limit(s).  
Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003



Laboratory Manager

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM  
70 Bell Ave.  
Upton, NY 11973  
Attn To : S. Scarpitta

Lab No. : 0311158-002

Sample Information...  
Type : Potable Water  
Origin: Dist.

Federal ID 5111891

Client ID. : 17804-002

Collected 11/6/2003 9:03:00 AM Point No 076-408

Received 11/6/2003 3:30:00 PM Location: B-640 Water Tower

Collected By CLIENT

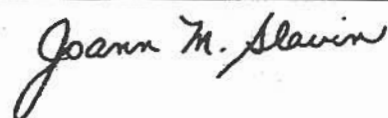
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| <u>Parameter(s)</u>     | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|-------------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform          | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform              | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |
| Total Residual Chlorine | 0.9            | mg/L         |              | M4500-Cl G           | 11/6/2003             |

Result(s) reported meet(s) Regulatory Limit(s).  
Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003



Laboratory Manager

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM  
70 Bell Ave.  
Upton, NY 11973  
Attn To : S. Scarpitta

Lab No. : 0311158-003

Sample Information...  
Type : Potable Water  
Origin: Dist.

Federal ID 5111891

Client ID. : 17804-003

Collected 11/6/2003 9:16:00 AM Point No 045-12

Received 11/6/2003 3:30:00 PM Location: B-1005 RHIC

Collected By CLIENT

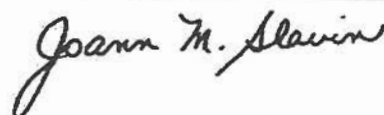
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| <u>Parameter(s)</u>     | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|-------------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform          | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform              | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |
| Total Residual Chlorine | 0.6            | mg/L         |              | M4500-Cl G           | 11/6/2003             |

Result(s) reported meet(s) Regulatory Limit(s).  
Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003



# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM  
70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Lab No. : 0311158-004

Sample Information...

Type : Potable Water

Origin: Dist.

Federal ID 5111891

Client ID. : 17804-004

Collected 11/6/2003 8:29:00 AM Point No 109-19

Received 11/6/2003 3:30:00 PM Location: B-363 Apt.Laundry

Collected By CLIENT

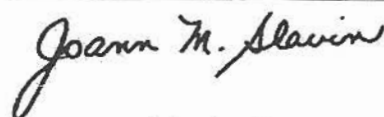
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| <u>Parameter(s)</u>     | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|-------------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform          | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform              | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |
| Total Residual Chlorine | 0.5            | mg/L         |              | M4500-Cl G           | 11/6/2003             |

Result(s) reported meet(s) Regulatory Limit(s).  
Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003



Laboratory Manager

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Federal ID 5111891

Collected 11/6/2003 9:26:00 AM

Point No 054-187

Received 11/6/2003 3:30:00 PM

Location: B-930 LINAC

Collected By CLIENT

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Lab No. : 0311158-005

Sample Information...

Type : Potable Water

Origin: Dist.

Client ID. : 17804-005

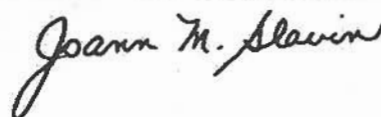
| <u>Parameter(s)</u>     | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|-------------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform          | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform              | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |
| Total Residual Chlorine | 0.9            | mg/L         |              | M4500-Cl G           | 11/6/2003             |

Result(s) reported meet(s) Regulatory Limit(s).

Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003

Laboratory Manager





# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040 . FAX: (631) 420-8436 NYSDOHID# 10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM  
70 Bell Ave.  
Upton, NY 11973  
Attn To : S. Scarpitta

Lab No. : 0311158-006

Sample Information...  
Type : Potable Water  
Origin: Dist.

Federal ID 5111891

Client ID. : 17804-006

Collected 11/6/2003 9:36:00 AM Point No 084-70

Received 11/6/2003 3:30:00 PM Location: B-490 Outpatient Clinic

Collected By CLIENT

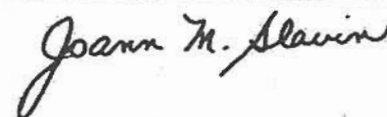
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| <u>Parameter(s)</u>     | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|-------------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform          | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform              | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |
| Total Residual Chlorine | 0.6            | mg/L         |              | M4500-Cl G           | 11/6/2003             |

Result(s) reported meet(s) Regulatory Limit(s).  
Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003



Laboratory Manager

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040 . FAX: (631) 420-8436 NYSDOHID# 10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : S. Scarpitta

Lab No. : 0311158-007

Sample Information...

Type : Potable Water

Origin: Dist.

Federal ID 5111891

Client ID. : 17804-007

Collected 11/6/2003 9:45:00 AM Point No 084-67

Received 11/6/2003 3:30:00 PM Location: B-490 Block 11

Collected By CLIENT

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| <u>Parameter(s)</u>     | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|-------------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform          | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform              | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |
| Total Residual Chlorine | 0.4            | mg/L         |              | M4500-CI G           | 11/6/2003             |

Result(s) reported meet(s) Regulatory Limit(s).  
Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003

*Joann M. Slavin*  
Laboratory Manager

# H2M LABS, INC.

575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040. FAX: (631) 420-8436 NYSDOH ID# 10478

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM  
70 Bell Ave.  
Upton, NY 11973  
Attn To : S. Scarpitta

Lab No. : 0311158-008

Sample Information...  
Type : Potable Water  
Origin: Dist.

Federal ID 5111891  
Collected 11/6/2003 Point No 1  
Received 11/6/2003 3:30:00 PM Location: Duplicate  
Collected By CLIENT  
Copy : Original  
CC

Client ID. : 17804-008

| <u>Parameter(s)</u> | <u>Results</u> | <u>Units</u> | <u>Limit</u> | <u>Method Number</u> | <u>Analyzed</u>       |
|---------------------|----------------|--------------|--------------|----------------------|-----------------------|
| Total Coliform      | Negative       |              | Negative     | M9223                | 11/7/2003 11:00:00 AM |
| E_Coliform          | Absent         |              | Absent       | M9223                | 11/7/2003 11:00:00 AM |

Result(s) reported meet(s) Regulatory Limit(s).  
Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.

Date Reported : 11/10/2003

*Joann M. Slavin*

Laboratory Manager

**ATTACHMENT II**

**Brookhaven National Laboratory**

**Potable Water Supply**

**November 2003 Biweekly Water Quality Monitoring Data for the**

**BNL Distribution System**

**Attachment II**  
**Table 1 - Summary of Water Quality Analyses**  
**for the BNL Potable Water System**  
**November 2003**

| Sample Location | Sample Date | pH (SU) | Temperature (Degrees F) | Conductivity (µmhos) | Alkalinity (mg/L) | Calcium (mg/L) |
|-----------------|-------------|---------|-------------------------|----------------------|-------------------|----------------|
| WTP             | 11/4/03     | 7.3     | 58                      | 185                  | ANR               | ANR            |
| WTP             | 11/6/03     | 7.8     | 56                      | 143                  | ANR               | ANR            |
| WTP             | 11/11/03    | Holiday |                         |                      | ANR               | ANR            |
| WTP             | 11/13/03    | 7.7     | 55                      | 150                  | ANR               | ANR            |
| WTP             | 11/18/03    | 7.6     | 54                      | 140                  | ANR               | ANR            |
| WTP             | 11/20/03    | 7.6     | 56                      | 140                  | ANR               | ANR            |
| WTP             | 11/25/03    | 7.6     | 55                      | 154                  | ANR               | ANR            |
| WTP             | 11/27/03    | Holiday |                         |                      | ANR               | ANR            |

**ANR-** Analysis Not Required

**NR-** Well Not Running

**WTP-** Water Treatment Plant

**Note:** Field parameters are only conducted for facilities that are in operation on the day of measurement.

**ATTACHMENT III**

**Brookhaven National Laboratory  
Potable Water Supply**

**2003 Fourth Quarter Radiological Analyses  
for the BNL Potable Water Wells**

Page 1

### ATTACHMENT III

**Table 2**  
**Summary of 2003 Fourth Quarter Radiological Analyses for the**  
**BNL Potable Water Wells**

| <b>Well ID</b>       | <b>Gross Alpha<br/>(pCi/L)</b> | <b>Gross Beta<br/>(pCi/L)</b> | <b>Tritium<br/>(pCi/L)</b> | <b>Sr-90<br/>(pCi/L)</b> |
|----------------------|--------------------------------|-------------------------------|----------------------------|--------------------------|
| Well # 4             | 2.62                           | 3.92                          | < 280                      | < 0.56                   |
| Well # 4 (Duplicate) | 0.68                           | < 1.40                        | < 275                      | < 0.55                   |
| Well # 6             | < 0.58                         | < 1.4                         | < 273                      | < 0.56                   |
| Well # 7             | < 0.58                         | < 1.4                         | < 280                      | < 0.61                   |
| Well # 11            | < 0.58                         | < 1.4                         | < 278                      | < 0.58                   |
| Well # 12            | 1.33                           | 2.67                          | < 280                      | < 0.36                   |











## BROOKHAVEN NATIONAL LABS

Client Sample ID: 17731-006

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3J230317-006  
 Work Order: F29ML  
 Matrix: W

Date Collected: 10/22/03 0939  
 Date Received: 10/23/03 0900

| Parameter                     | Result                | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | MDC           | Prep<br>Date | Analysis<br>Date    | Batch # | Yld % |
|-------------------------------|-----------------------|------|--------------------------------------|---------------|--------------|---------------------|---------|-------|
| SR-90 BY GFPC<br>Strontium 90 | EPA-905 MOD<br>-0.005 | U    | 0.33                                 | pCi/L<br>0.56 | 10/24/03     | 905 MOD<br>11/03/03 | 3297298 | 88    |

Potable Water #4

## NOTE(S)

Data are incomplete without the case narrative.  
 MDC is determined by instrument performance only.  
 Bold results are greater than the MDC  
 U Result is less than the sample detection limit.

## BROOKHAVEN NATIONAL LABS

Client Sample ID: 17731-005

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3J230317-005  
 Work Order: F29MK  
 Matrix: W

Date Collected: 10/22/03 0000  
 Date Received: 10/23/03 0900

| Parameter                     | Result             | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | MDC           | Prep<br>Date        | Analysis<br>Date | Batch # | Yld % |
|-------------------------------|--------------------|------|--------------------------------------|---------------|---------------------|------------------|---------|-------|
| SR-90 BY GFPC<br>Strontium 90 | EPA-905 MOD<br>0.1 | U    | 0.33                                 | pCi/L<br>0.55 | 905 MOD<br>10/24/03 | 11/03/03         | 3297298 | 97    |

Potable Well #4 - Duplicate

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

## BROOKHAVEN NATIONAL LABS

Client Sample ID: 17731-003

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3J230317-003  
 Work Order: F29MF  
 Matrix: W

Date Collected: 10/22/03 0947  
 Date Received: 10/23/03 0900

| Parameter     | Result      | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | MDC   | Prep<br>Date | Analysis<br>Date | Batch # | Yld % |
|---------------|-------------|------|--------------------------------------|-------|--------------|------------------|---------|-------|
| SR-90 BY GFPC | EPA-905 MOD |      |                                      | pCi/L |              | 905 MOD          |         |       |
| Strontium 90  | 0.17        | U    | 0.34                                 | 0.56  | 10/24/03     | 11/03/03         | 3297298 | 94    |

Potable Well #6

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

## BROOKHAVEN NATIONAL LABS

Client Sample ID: 17731-004

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3J230317-004  
Work Order: F29MJ  
Matrix: W

Date Collected: 10/22/03 0951  
Date Received: 10/23/03 0900

| Parameter     | Result      | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | MDC  | Prep<br>Date | Analysis<br>Date | Batch # | Yld % |
|---------------|-------------|------|--------------------------------------|------|--------------|------------------|---------|-------|
| SR-90 BY GFPC | EPA-905 MOD |      |                                      |      |              | 905 MOD          |         |       |
| Strontium 90  | 0.37        | U    | 0.38                                 | 0.61 | 10/24/03     | 11/03/03         | 3297298 | 87    |

Potable Well # 7

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

## BROOKHAVEN NATIONAL LABS

Client Sample ID: 17731-002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3J230317-002  
 Work Order: F29MD  
 Matrix: W

Date Collected: 10/22/03 1006  
 Date Received: 10/23/03 0900

| Parameter                     | Result              | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | MDC           | Prep<br>Date        | Analysis<br>Date | Batch # | Yld % |
|-------------------------------|---------------------|------|--------------------------------------|---------------|---------------------|------------------|---------|-------|
| SR-90 BY GFPC<br>Strontium 90 | EPA-905 MOD<br>0.26 | U    | 0.35                                 | pCi/L<br>0.58 | 905 MOD<br>10/24/03 | 11/03/03         | 3297298 | 89    |

Potable Well # 11

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.



## BROOKHAVEN NATIONAL LABS

Client Sample ID: 17731-001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F3J230317-001  
 Work Order: F29LW  
 Matrix: W

Date Collected: 10/22/03 1012  
 Date Received: 10/23/03 0900

| Parameter                     | Result              | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | MDC           | Prep<br>Date        | Analysis<br>Date | Batch # | Yld % |
|-------------------------------|---------------------|------|--------------------------------------|---------------|---------------------|------------------|---------|-------|
| SR-90 BY GFPC<br>Strontium 90 | EPA-905 MOD<br>0.35 | U    | 0.36                                 | pCi/L<br>0.57 | 905 MOD<br>10/24/03 | 11/03/03         | 3297298 | 91    |

Potable Well #12

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.