Wt. Allocco

Environmental Services Division

BROOKHAVEN
NATIONAL LABORATORY

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

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January 9, 2003

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

Dear Ms. Newcomer:

**SUBJECT: Monthly Water Treatment Plant Reports**
**Reference: Suffolk County Minimum Monitoring Requirements for December 2002**

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2002 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 and Bacteriological Reports for December. |
| Attachment II: | December 2002 Biweekly Water Quality Monitoring Data for the BNL Potable Water Wells, and Fourth Quarter Water Quality Data for the BNL Distribution System. |
| Attachment III: | 2002 Fourth Quarter Radiological Analyses for the BNL Potable Wells. |
| Attachment IV: | 2002 Fourth Quarter Principal Organic Compound Analyses for the 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 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. Should there be any questions regarding this report or the analytical or operational data contained herein, please call either R. Lee at (631) 344-3148, M. Allocco at (631) 344-3166, or W. Chaloupka at (631) 344-7136.

Sincerely,

Robert Lee (for)

E. A. Zimmerman, CEP, REM, CEA, CESM
Interim Division Manager

EZ/MA:cr
Attachments: As noted

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

EC61ER.03

# ATTACHMENT I

## Brookhaven National Laboratory
## Potable Water Supply

## Monthly Operational and Bacteriological Reports for December 2002 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: December 2002 |
|---|---|---|---|

LOCATION: **Water Treatment Facility**

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

| | CHLORINATION | | | | pH | |
|---|---|---|---|---|---|---|
| | Treated | Liquid Sodium Hypochlorite | | Free Cl2 | __ Lime | Totalizer |
| Day of | Water | Gallons | Cl2 use | Residual | __ Sodium | Daily Totalizer |
| month | K Gals | 190 | per 24hrs | mg/l | Hydroxide | 12730656 |
| 1 | 0 | | | | | |
| 2 | 1,445 | 175+25 | 15 | 1.09 | 7.2 | 12732101 |
| 3 | 777 | 195 | 20 | 0.75 | 7.3 | 12732878 |
| 4 | 847 | 185 | 10 | 0.4 | 7.3 | 12733725 |
| 5 | 763 | 180 | 5 | 0.8 | 7.4 | 12734488 |
| 6 | 822 | 170+30 | 10 | 1 | 7.5 | 12735310 |
| 7 | 0 | | | | | |
| 8 | 0 | | | | | |
| 9 | 1,169 | 180 | 20 | 0.98 | 8 | 12736479 |
| 10 | 721 | 173 | 7 | 0.85 | 7.5 | 12737200 |
| 11 | 843 | 162 | 11 | 0.91 | 7.4 | 12738043 |
| 12 | 845 | 154+46 | 8 | 1.1 | 7.5 | 12738888 |
| 13 | 0 | 200 | 0 | NR | NR | 12738888 |
| 14 | 0 | | | | | |
| 15 | 0 | | | | | |
| 16 | 36 | 200 | 0 | 1.08 | 7.7 | 12738924 |
| 17 | 51 | 200 | 0 | 0.86 | 7.8 | 12738975 |
| 18 | 0 | 200 | 0 | 1.2 | 7.8 | 12738975 |
| 19 | 43 | 200 | 0 | 1.1 | 7.8 | 12739018 |
| 20 | 0 | 200 | 0 | 0.52 | 7.1 | 12739018 |
| 21 | 0 | | | | | |
| 22 | 0 | | | | | |
| 23 | 107 | 200 | 0 | 0.6 | 7.1 | 12739125 |
| 24 | 20 | 200 | 0 | 0.32 | 7.1 | 12739145 |
| 25 | 0 | | | | | |
| 26 | 65 | 198 | 2 | 0.71 | 7.1 | 12739210 |
| 27 | 999 | 187 | 11 | 0.74 | 7.1 | 12740209 |
| 28 | 0 | | | | | |
| 29 | 0 | | | | | |
| 30 | 3,137 | 150 | 27 | 0.71 | 7.2 | 12743346 |
| 31 | 1,082 | 135 | 15 | 0.9 | 7.2 | 12744428 |
| TOT | 13,772 | | 161 | | | |
| AVG. | 444.26 | | 5.19 | No. Days: | 31 | |

**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: [signature]

Date: 1-3-03

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: December 2002 |
|---|---|---|---|

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 ✓

| | CHLORINATION | | | | pH | |
|---|---|---|---|---|---|---|
| | Treated | Liquid Sodium Hypochlorite | | Free Cl2 | __ Lime | Totalizer |
| Day of | Water | Gallons | Cl2 use | Residual | __ Sodium | Daily Totalizer |
| month | K Gals | 120 | per 24hrs | mg/l | Hydroxide | 1510466 |
| 1 | 0 | | | | | |
| 2 | 648 | 75 | 45 | 0.28 | 5.8 | 1511114 |
| 3 | 296 | 72 | 3 | 0.26 | 5.9 | 1511410 |
| 4 | 382 | 72 | 0 | 0.4 | 5.7 | 1511792 |
| 5 | 343 | 72+39 | 0 | 0.04 | 5.9 | 1512135 |
| 6 | 263 | 105 | 6 | 0.1 | 6 | 1512398 |
| 7 | 0 | | | | | |
| 8 | 0 | | | | | |
| 9 | 119 | 105 | 0 | NR | NR | 1512517 |
| 10 | 103 | 102 | 3 | 0.36 | 6 | 1512620 |
| 11 | 447 | 96 | 6 | 0.016 | 5.9 | 1513067 |
| 12 | 491 | 87 | 9 | 0.13 | 6 | 1513558 |
| 13 | 0 | 87 | 0 | NR | NR | 1513558 |
| 14 | 0 | | | | | |
| 15 | 0 | | | | | |
| 16 | 1 | 87 | 0 | NR | NR | 1513559 |
| 17 | 0 | 87 | 0 | NR | NR | 1513559 |
| 18 | 0 | 87 | 0 | NR | NR | 1513559 |
| 19 | 0 | 87+63 | 0 | NR | NR | 1513559 |
| 20 | 0 | 150 | 0 | NR | NR | 1513559 |
| 21 | 0 | | | | | |
| 22 | 0 | | | | | |
| 23 | 1 | 150 | 0 | NR | NR | 1513560 |
| 24 | 0 | 150 | 0 | NR | NR | 1513560 |
| 25 | 0 | | | | | |
| 26 | 0 | 150 | 0 | NR | NR | 1513560 |
| 27 | 532 | 130 | 20 | 0.05 | 5.8 | 1514092 |
| 28 | 0 | | | | | |
| 29 | 0 | | | | | |
| 30 | 1,568 | 125 | 6 | 0.03 | 5.9 | 1515660 |
| 31 | 622 | 105 | 10 | 0.01 | 5.8 | 1516282 |
| TOT | 5,816 | | 108 | | | |
| AVG. | 187.61 | | 3.48 | No. Days: | 31 | |

**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: 1-3-03

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: December** 2002 |
|---|---|---|---|

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 ✓

| | CHLORINATION | | | | pH | |
|---|---|---|---|---|---|---|
| | Treated | Liquid Sodium Hypochlorite | | Free Cl2 | __ Lime | Totalizer |
| Day of | Water | Gallons | Cl2 use | Residual | __ Sodium | Daily Totalizer |
| month | K Gals | 195 | per 24hrs | mg/l | Hydroxide | 360288 |
| 1 | 0 | | | | | |
| 2 | 127 | 200 | 0 | 0.28 | 5.8 | 360415 |
| 3 | 76 | 200 | 0 | 0.26 | 5.9 | 360491 |
| 4 | 67 | 200 | 0 | 0.4 | 5.7 | 360558 |
| 5 | 168 | 200 | 0 | 0.04 | 5.9 | 360726 |
| 6 | 50 | 200 | 0 | 0.1 | 6 | 360776 |
| 7 | 0 | | | | | |
| 8 | 0 | | | | | |
| 9 | 60 | 200 | 0 | 0.02 | 6 | 360836 |
| 10 | 30 | 200 | 0 | 0.36 | 6 | 360866 |
| 11 | 167 | 200 | 0 | NR | NR | 361033 |
| 12 | 87 | 200 | 0 | NR | NR | 361120 |
| 13 | 0 | 200 | 0 | NR | NR | 361120 |
| 14 | 0 | | | | | |
| 15 | 0 | | | | | |
| 16 | 0 | 0 | 0 | NR | NR | 361120 |
| 17 | 0 | 0 | 0 | NR | NR | 361120 |
| 18 | 0 | 0 | 0 | NR | NR | 361120 |
| 19 | 0 | 0 | 0 | NR | NR | 361120 |
| 20 | 0 | 0 | 0 | NR | NR | 361120 |
| 21 | 0 | | | | | |
| 22 | 0 | | | | | |
| 23 | 0 | 150 | 0 | NR | NR | 361120 |
| 24 | 0 | 150 | 0 | NR | NR | 361120 |
| 25 | 0 | | | | | |
| 26 | 0 | 150 | 0 | NR | NR | 361120 |
| 27 | 119 | 132 | 18 | 0.05 | 5.8 | 361239 |
| 28 | 0 | | | | | |
| 29 | 0 | | | | | |
| 30 | 254 | 132 | 0 | 0.03 | 5.9 | 361493 |
| 31 | 202 | 125 | 7 | 0.01 | 5.8 | 361695 |
| TOT | 1,407 | | 25 | | | |
| AVG | 45.39 | | 0.81 | No. Days: | 31 | |

**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: 1-3-03

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: December 2002 |
|---|---|---|---|

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 ✓

| | CHLORINATION | | | | pH | |
|---|---|---|---|---|---|---|
| | Treated | Liquid Sodium Hypochlorite | | Free Cl2 | _ Lime | Totalizer |
| Day of | Water | Gallons | Cl2 use | Residual | _ Sodium | Daily Totalizer |
| month | K Gals | 170 | per 24hrs | mg/l | Hydroxide | 947174 |
| 1 | 0 | | | | | |
| 2 | 1.583 | 150 | 20 | 0.28 | 5.8 | 948757 |
| 3 | 831 | 140 | 10 | 0.26 | 5.8 | 949588 |
| 4 | 1.115 | 122 | 18 | 0.4 | 5.7 | 950703 |
| 5 | 863 | 110+90 | 12 | 0.04 | 5.9 | 951566 |
| 6 | 942 | 197 | 3 | 0.1 | 6 | 952508 |
| 7 | 0 | | | | | |
| 8 | 0 | | | | | |
| 9 | 1.617 | 197 | 0 | 0.02 | 6 | 954125 |
| 10 | 955 | 187 | 10 | 0.36 | 6 | 955080 |
| 11 | 938 | 170 | 17 | 0.016 | 5.9 | 956018 |
| 12 | 959 | 160 | 10 | 0.13 | 6 | 956977 |
| 13 | 0 | 160 | 0 | NR | NR | 956977 |
| 14 | 0 | | | | | |
| 15 | 0 | | | | | |
| 16 | 0 | 0 | 0 | NR | NR | 956977 |
| 17 | 0 | 0 | 0 | NR | NR | 956977 |
| 18 | 0 | 0 | 0 | NR | NR | 956977 |
| 19 | 0 | 0 | 0 | NR | NR | 956977 |
| 20 | 0 | 0 | 0 | NR | NR | 956977 |
| 21 | 0 | | | | | |
| 22 | 0 | | | | | |
| 23 | 0 | 150 | 0 | NR | NR | 956977 |
| 24 | 0 | 150 | 0 | NR | NR | 956977 |
| 25 | 0 | | | | | |
| 26 | 0 | 150 | 0 | NR | NR | 956977 |
| 27 | 1.012 | 120 | 30 | 0.05 | 5.8 | 957989 |
| 28 | 0 | | | | | |
| 29 | 0 | | | | | |
| 30 | 3.467 | 66 | 54 | 0.03 | 5.9 | 961456 |
| 31 | 1.174 | 50 | 16 | 0.01 | 5.8 | 962630 |
| [illegible] | [illegible] | | 200 | | | |
| [illegible] | [illegible] | | 6.45 | No. days | 31 | |

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 futurb) 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: 1-3-03

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: December 2002 |
|---|---|---|---|

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 ✓

| | CHLORINATION | | | | pH | |
|---|---|---|---|---|---|---|
| | Treated | Liquid Sodium Hypochlorite | | Free Cl2 | __ Lime | Totalizer |
| Day of | Water | Gallons | Cl2 use | Residual | __ Sodium | Daily Totalizer |
| month | K Gals | 83 | per 24hrs | mg/l | Hydroxide | 764719 |
| 1 | 0 | | | | | |
| 2 | 0 | 83 | 0 | NR | NR | 764719 |
| 3 | 0 | 83 | 0 | NR | NR | 764719 |
| 4 | 0 | 83 | 0 | NR | NR | 764719 |
| 5 | 0 | 83 | 0 | NR | NR | 764719 |
| 6 | 0 | 83 | 0 | NR | NR | 764719 |
| 7 | 0 | | | | | |
| 8 | 0 | | | | | |
| 9 | 0 | 83 | 0 | NR | NR | 764719 |
| 10 | 0 | 83 | 0 | NR | NR | 764719 |
| 11 | 0 | 83 | 0 | NR | NR | 764719 |
| 12 | 0 | 83 | 0 | NR | NR | 764719 |
| 13 | 0 | 83 | 0 | NR | NR | 764719 |
| 14 | 0 | | | | | |
| 15 | 0 | | | | | |
| 16 | 0 | 83 | 0 | NR | NR | 764719 |
| 17 | 0 | 83 | 0 | NR | NR | 764719 |
| 18 | 0 | 83 | 0 | NR | NR | 764719 |
| 19 | 0 | 83 | 0 | NR | NR | 764719 |
| 20 | 0 | 83 | 0 | NR | NR | 764719 |
| 21 | 0 | | | | | |
| 22 | 0 | | | | | |
| 23 | 0 | 83 | 0 | NR | NR | 764719 |
| 24 | 0 | 83 | 0 | NR | NR | 764719 |
| 25 | 0 | | | | | |
| 26 | 0 | 83 | 0 | NR | NR | 764719 |
| 27 | 0 | 83 | 0 | NR | NR | 764719 |
| 28 | 0 | | | | | |
| 29 | 0 | | | | | |
| 30 | 0 | 83 | 0 | NR | NR | 764719 |
| 31 | 0 | 83 | 0 | NR | NR | 764719 |
| TOT | 0 | | 0 | | | |
| AVG. | 0.00 | | 0.00 | No. Days: | 31 | |

**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: 1-3-03

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: December 2002 |
|---|---|---|---|

LOCATION: **WELL NO. 11**

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 ✓

| | CHLORINATION | | | | pH | |
|---|---|---|---|---|---|---|
| | Treated | Liquid Sodium Hypochlorite | | Free Cl2 | __ Lime | Totalizer |
| Day of | Water | Gallons | Cl2 use | Residual | __ Sodium | Daily Totalizer |
| month | K Gals | 40 | per 24hrs | mg/l | Hydroxide | 462912 |
| 1 | 0 | | | | | |
| 2 | 0 | 40 | 0 | 0.9 | 7.2 | 462912 |
| 3 | 0 | 40 | 0 | 0.71 | 7 | 462912 |
| 4 | 0 | 40 | 0 | NR | NR | 462912 |
| 5 | 0 | 40 | 0 | NR | NR | 462912 |
| 6 | 0 | 40 | 0 | 0.7 | 6.9 | 462912 |
| 7 | 0 | | | | | |
| 8 | 0 | | | | | |
| 9 | 0 | 40 | 0 | NR | NR | 462912 |
| 10 | 0 | 40 | 0 | NR | NR | 462912 |
| 11 | 0 | 40 | 0 | NR | NR | 462912 |
| 12 | 0 | 40+110 | 0 | NR | NR | 462912 |
| 13 | 68 | 150 | 0 | 1 | 8 | 462980 |
| 14 | 0 | | | | | |
| 15 | 0 | | | | | |
| 16 | 51 | 150 | 0 | 1.3 | 6.9 | 463031 |
| 17 | 7 | 150 | 0 | 1.2 | 7.2 | 463038 |
| 18 | 3 | 150 | 0 | NR | NR | 463041 |
| 19 | 0 | 150 | 0 | 0.95 | 7.3 | 463041 |
| 20 | 5 | 150 | 0 | 1.3 | 6.7 | 463046 |
| 21 | 0 | | | | | |
| 22 | 0 | | | | | |
| 23 | 319 | 150 | 0 | 1.6 | 6.7 | 463365 |
| 24 | 25 | 150 | 0 | 1.2 | 6.8 | 463390 |
| 25 | 0 | | | | | |
| 26 | 46 | 150 | 0 | 1.3 | 7.1 | 463436 |
| 27 | 158 | 150 | 0 | 1.07 | NR | 463594 |
| 28 | 0 | | | | | |
| 29 | 0 | | | | | |
| 30 | 0 | 150 | 0 | NR | NR | 463594 |
| 31 | 0 | 150 | 0 | 0.32 | 7.1 | 463594 |
| TOT | 682 | | 0 | | | |
| AVG | 22.00 | | 0.00 | No. Days: | 31 | |

**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 bituib) 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: 1-3-03

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: December 2002 |
|---|---|---|---|

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 ✓

| | CHLORINATION | | | | pH | |
|---|---|---|---|---|---|---|
| | Treated | Liquid Sodium Hypochlorite | | Free Cl2 | __ Lime | Totalizer |
| Day of | Water | Gallons | Cl2 use | Residual | __ Sodium | Daily Totalizer |
| month | K Gals | 82 | per 24hrs | mg/l | Hydroxide | 582153 |
| 1 | 0 | | | | | |
| 2 | 0 | 82 | 0 | 0.92 | 7.4 | 582153 |
| 3 | 7 | 82 | 0 | 0.84 | 7.4 | 582160 |
| 4 | 217 | 82 | 0 | NR | NR | 582377 |
| 5 | 128 | 82 | 0 | 7.3 | 0.72 | 582505 |
| 6 | 0 | 82 | 0 | 0.76 | 7.3 | 582505 |
| 7 | 0 | | | | | |
| 8 | 0 | | | | | |
| 9 | 1,578 | 82+50 | 0 | NR | NR | 584083 |
| 10 | 218 | 129 | 3 | 0.27 | 8.5 | 584301 |
| 11 | 0 | 129 | 0 | 0.25 | 7 | 584301 |
| 12 | 11 | 129 | 0 | 0.65 | 8.8 | 584312 |
| 13 | 1,092 | 117 | 12 | 0.79 | 8.2 | 585404 |
| 14 | 0 | | | | | |
| 15 | 0 | | | | | |
| 16 | 3,283 | 81 | 36 | 0.97 | 7.5 | 588687 |
| 17 | 1,125 | 69 | 12 | 0.94 | 7.3 | 589812 |
| 18 | 1,254 | 54 | 15 | 0.92 | 7.9 | 591066 |
| 19 | 1,111 | 42+108 | 12 | 0.97 | 7.8 | 592177 |
| 20 | 1,363 | 129 | 21 | 0.83 | 7 | 593540 |
| 21 | 0 | | | | | |
| 22 | 0 | | | | | |
| 23 | 3,944 | 85 | 44 | 0.78 | 8.6 | 597484 |
| 24 | 1,380 | 85 | 0 | 0.22 | 8 | 598864 |
| 25 | 0 | | | | | |
| 26 | 2,778 | 58 | 27 | 0.91 | 8.2 | 601642 |
| 27 | 145 | 55 | 3 | 0.43 | 8 | 601787 |
| 28 | 0 | | | | | |
| 29 | 0 | | | | | |
| 30 | 391 | 54 | 1 | NR | NR | 602178 |
| 31 | 778 | 54 | 0 | 0.45 | 8.1 | 602956 |
| TOT | 20,803 | | 186 | | | |
| AVG | 671.06 | | 6.00 | No. Days: | 31 | |

**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: 1-3-03

Title: Water Systems Supervisor

Certification No. NY0031941

12/31/02
Pump Data

# MONTHLY GALLONAGE REPORT
## 2002 DECEMBER.xls

| Date | Well 4 | Well 6 | Well 7 | Well10 | Well11 | Well12 | Daily Total |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 648 | 127 | 1,583 | 0 | 0 | 0 | 2,358 |
| 3 | 296 | 76 | 831 | 0 | 0 | 7 | 1,210 |
| 4 | 382 | 67 | 1,115 | 0 | 0 | 217 | 1,781 |
| 5 | 343 | 168 | 863 | 0 | 0 | 128 | 1,502 |
| 6 | 263 | 50 | 942 | 0 | 0 | 0 | 1,255 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 119 | 60 | 1,617 | 0 | 0 | 1,578 | 3,374 |
| 10 | 103 | 30 | 955 | 0 | 0 | 218 | 1,306 |
| 11 | 447 | 167 | 938 | 0 | 0 | 0 | 1,552 |
| 12 | 491 | 87 | 959 | 0 | 0 | 11 | 1,548 |
| 13 | 0 | 0 | 0 | 0 | 68 | 1,092 | 1,160 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 1 | 0 | 0 | 0 | 51 | 3,283 | 3,335 |
| 17 | 0 | 0 | 0 | 0 | 7 | 1,125 | 1,132 |
| 18 | 0 | 0 | 0 | 0 | 3 | 1,254 | 1,257 |
| 19 | 0 | 0 | 0 | 0 | 0 | 1,111 | 1,111 |
| 20 | 0 | 0 | 0 | 0 | 5 | 1,363 | 1,368 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 1 | 0 | 0 | 0 | 319 | 3,944 | 4,264 |
| 24 | 0 | 0 | 0 | 0 | 25 | 1,380 | 1,405 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 46 | 2,778 | 2,824 |
| 27 | 532 | 119 | 1,012 | 0 | 158 | 145 | 1,966 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 1,568 | 254 | 3,467 | 0 | 0 | 391 | 5,680 |
| 31 | 622 | 202 | 1,174 | 0 | 0 | 778 | 2,776 |
| Total | 5,816 | 1,407 | 15,456 | 0 | 682 | 20,803 | 44,164 |

| | Totalizer This Month | Totalizer Last Month | Total(x1,000) Gallons |
|---|---|---|---|
| Well 4 | 1,516,282 | 1,510,466 | 5,816 |
| Well 6 | 361,695 | 360,288 | 1,407 |
| Well 7 | 962,630 | 947,174 | 15,456 |
| Well 10 | 764,719 | 764,719 | 0 |
| Well 11 | 463,594 | 462,912 | 682 |
| Well 12 | 602,956 | 582,153 | 20,803 |
| WTS Water Supply Meter | 416,199 | 413,036 | 3163.00 |
| [illegible] Reactor - Well 105 | 0 | 0 | 0.00 |
| [illegible] Well 9 | 6,708,380 | 6,691,430 | 16.95 |

# 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 : Tony Ross

Lab No. : **0212157-002**

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

Federal ID 5111891
Collected 12/5/2002 8:45:00 AM Point No 076-408
Received 12/6/2002 10:10:00 AM Location: B-640 Water Tower
Collected By CLIENT
Copies To M. Allocco

**Client ID. : 14856-002**

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| Total Coliform | Negative | | Negative | M9223 | 12/6/2002 11:00:00 AM |
| E_Coliform | Absent | | Absent | M9223 | 12/6/2002 11:00:00 AM |
| Total Residual Chlorine | 0.8 | mg/L | | M4500-Cl G | 12/5/2002 |

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

Date Reported : 12 9 2002

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 : Tony Ross

Lab No. : 0212157-003

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

Federal ID 5111891
Client ID. : 14856-003
Collected 12/5/2002 9:30:00 AM Point No 045-12
Received 12/6/2002 10:10:00 AM Location: B-1005 Rhic
Collected By CLIENT
Copies To M. Allocco

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| Total Coliform | Negative | | Negative | M9223 | 12/6/2002 11:00:00 AM |
| E_Coliform | Absent | | Absent | M9223 | 12/6/2002 11:00:00 AM |
| Total Residual Chlorine | 0.4 | mg/L | | M4500-Cl G | 12/5/2002 |

Not meeting Regulatory Limit(s)
Meet + Exceed Regulatory Limit(s) Limit noted

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 : Tony Ross

Lab No. : 0212157-004

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

Federal ID 5111891
Client ID. : 14856-004
Collected 12/5/2002 9:05:00 AM Point No 109-19
Received 12/6/2002 10:10:00 AM Location: B-363 Apt.Laundry
Collected By CLIENT
Copies To M. Allocco

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| Total Coliform | Negative | | Negative | M9223 | 12/6/2002 11:00:00 AM |
| E_Coliform | Absent | | Absent | M9223 | 12/6/2002 11:00:00 AM |
| Total Residual Chlorine | 0.7 | mg/L | | M4500-Cl G | 12/5/2002 |

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

Date Reported : 12/9/2002

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 : Tony Ross

Lab No. : 0212157-005

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

Federal ID 5111891
Client ID. : 14856-005
Collected 12/5/2002 10:48:00 AM Point No 075-602
Received 12/6/2002 10:10:00 AM Location: B-725 Nsls
Collected By CLIENT
Copies To M. Allocco

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| Total Coliform | Negative | | Negative | M9223 | 12/6/2002 11:00:00 AM |
| E_Coliform | Absent | | Absent | M9223 | 12/6/2002 11:00:00 AM |
| Total Residual Chlorine | 1.2 | mg/L | | M4500-Cl G | 12/5/2002 |

reported meet(s) Regulatory Limit(s)
flagged with * Exceed Regulatory Limit(s) Limit notice

Joann M. Slavin
Laboratory Manager

2002

# 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 : Tony Ross

Lab No. : **0212157-006**

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

Federal ID 5111891
Collected 12/5/2002 10:30:00 AM Point No 084-69
Received 12/6/2002 10:10:00 AM Location: B-490 Block 1 Afc
Collected By CLIENT
Copies To M. Allocco

**Client ID. : 14856-006**

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| Total Coliform | Negative | | Negative | M9223 | 12/6/2002 11:00:00 AM |
| E_Coliform | Absent | | Absent | M9223 | 12/6/2002 11:00:00 AM |
| Total Residual Chlorine | 0.6 | mg/L | | M4500-Cl G | 12/5/2002 |

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

Joann M. Slavin

Date Reported : 12/9/2002

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 : Tony Ross

Lab No. : 0212157-007

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

Federal ID 5111891
Client ID. : 14856-007
Collected 12/5/2002 10:40:00 AM Point No 084-68
Received 12/6/2002 10:10:00 AM Location: B-490 Block 4 Mrc
Collected By CLIENT
Copies To M. Allocco

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| Total Coliform | Negative | | Negative | M9223 | 12/6/2002 11:00:00 AM |
| E_Coliform | Absent | | Absent | M9223 | 12/6/2002 11:00:00 AM |
| Total Residual Chlorine | 1.1 | mg/L | | M4500-Cl G | 12/5/2002 |

[illegible] Regulatory Limit(s)
[illegible] * Exceed Regulatory Limit(s) Limit noted

Joann M. Slavin
Laboratory Manager

12/9/2002

# 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 : Tony Ross

Lab No. : **0212157-008**

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

Federal ID 5111891
Collected 12/5/2002 10:40:00 AM Point No 084-68
Received 12/6/2002 10:10:00 AM Location: B-490 Block 4 Mrc
Collected By CLIENT
Copies To M. Allocco

**Client ID. : 14856-008**

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| Total Coliform | Negative | | Negative | M9223 | 12/6/2002 11:00:00 AM |
| E Coliform | Absent | | Absent | M9223 | 12/6/2002 11:00:00 AM |
| Total Residual Chlorine | 1.1 | mg/L | | M4500-Cl G | 12/5/2002 |

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

Date Reported : 12/9/2002

Joann M. Slavin
Laboratory Manager

# ATTACHMENT II

## Brookhaven National Laboratory
## Potable Water Supply

## December 2002 Biweekly Water Quality Monitoring Data for the BNL Potable Water Wells

## and Fourth Quarter Water Quality Data for the BNL Distribution System

**Attachment II**
**Table 1 - Summary of Water Quality Analyses**
**for the BNL Potable Water System**
**December 2002**

| Sample Location | Sample Date | pH (SU) | Temperature (Degrees F) | Conductivity (μmhos) | Alkalinity (mg/L) | Calcium (mg/L) |
|---|---|---|---|---|---|---|
| WTP | 12/3/02 | 7.3 | 53 | 139 | NR | NR |
| WTP | 12/5/02 | 7.4 | 52 | 149 | NR | NR |
| WTP | 12/10/02 | 7.5 | 52 | 229 | NR | NR |
| WTP | 12/12/02 | 7.5 | 54 | 143 | NR | NR |
| WTP | 12/07/02 | 7.8 | 56 | 180 | NR | NR |
| WTP | 12/19/02 | 7.8 | 54 | 199 | NR | NR |
| WTP | 12/24/02 | 7.1 | 55 | 186 | NR | NR |
| WTP | 12/26/02 | 7.1 | 55 | 185 | NR | NR |
| WTP | 12/31/02 | 7.2 | 53 | 139 | NR | NR |
| Well 12 | 12/3/02 | 7.4 | 55 | 148 | NR | NR |
| Well 12 | 12/5/02 | 7.3 | 56 | 155 | NR | NR |
| Well 12 | 12/10/02 | 8.5 | 56 | 180 | NR | NR |
| Well 12 | 12/12/02 | 8.8 | 56 | 214 | NR | NR |
| Well 12 | 12/07/02 | 7.3 | 56 | 186 | NR | NR |
| Well 12 | 12/19/02 | 7.8 | 56 | 180 | NR | NR |
| Well 12 | 12/24/02 | 8.0 | 55 | 211 | NR | NR |
| Well 12 | 12/26/02 | 8.2 | 55 | 208 | NR | NR |
| Well 12 | 12/31/02 | 8.1 | 55 | 211 | NR | NR |
| Bldg. 49 | 10/10/02 | NR | NR | NR | 23.8 | 7.57 |
| Bldg. 640 | 10/10/02 | NR | NR | NR | 25.0 | 7.82 |
| Bldg. 363 | 10/10/02 | NR | NR | NR | 27.9 | 9.59 |

**NR** - Analysis Not Required or Not Reported
**WTP** – Water Treatment Plant
**Note:** Field parameters are only conducted for facilities that are in operation on the day of measurement.

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 :** Tony Ross

**Lab No. : 0210345-030**

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

Federal ID 5111891
Collected 10/10/2002 12:30:00 PM Point No 094-273
Received 10/10/2002 3:00:00 PM Location: B-49 Water Tower
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-029**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Alkalinity, Total (As CaCO3) | 23.8 | J | mg/L | | M2320 B | 10/18/2002 1:24:00 PM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported :



BNLM127S68

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# INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

14859-029

I Name: H2M_LABS,_INC._____ Contract: _____

Lab Code: 10478_ Case No.: _____ SAS No.: _____ SDG No.: BNLM127

Matrix (soil/water): WATER__ Lab Sample ID: 0210345-030_

Level (low/med): LOW____ Date Received: 10/10/02_

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | 7570 | | | P |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | | | | NR |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| | Cyanide | | | | NR |

Color Before: COLORLESS_ Clarity Before: CLEAR__ Texture: _____

Color After: COLORLESS_ Clarity After: CLEAR__ Artifacts: _____

Comments:

DATE_REPORTED_11/4/02_____



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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 :** Tony Ross

**Lab No. : 0210345-031**

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

Federal ID 5111891
**Client ID. : 14859-030**
Collected 10/10/2002 9:05:00 AM Point No 076-408
Received 10/10/2002 3:00:00 PM Location: B-640 Water Tower
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Alkalinity, Total (As CaCO3) | 25.0 | J | mg/L | | M2320 B | 10/18/2002 1:27:00 PM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported :



BNLM1127 S 70

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# INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

14859-030

Name: H2M_LABS,_INC. Contract: _____

Lab Code: 10478_ Case No.: _____ SAS No.: _____ SDG No.: BNLM127

Matrix (soil/water): WATER__ Lab Sample ID: 0210345-031_

Level (low/med): LOW___ Date Received: 10/10/02_

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | 7820 | | | P |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | | | | NR |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| | Cyanide | | | | NR |

Color Before: COLORLESS_ Clarity Before: CLEAR__ Texture: _____

Color After: COLORLESS_ Clarity After: CLEAR__ Artifacts: _____

Comments:

DATE_REPORTED_11/4/02



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# 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 : Tony Ross

Lab No. : 0210345-032

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

Federal ID 5111891
Client ID. : 14859-031
Collected 10/10/2002 9:30:00 AM Point No 109-19
Received 10/10/2002 3:00:00 PM Location: B-363 Apt.Laundry
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Alkalinity, Total (As CaCO3) | 27.9 | J | mg/L | | M2320 B | 10/18/2002 1:30:00 PM |

pH

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

Joann M. Slavin

Laboratory Manager

Data Reported :



BNLM127 S 72

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# INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

14859-031

L Name: H2M_LABS,_INC. Contract: _____

Lab Code: 10478_ Case No.: _____ SAS No.: _____ SDG No.: BNLM127

Matrix (soil/water): WATER__ Lab Sample ID: 0210345-032_

Level (low/med): LOW____ Date Received: 10/10/02_

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L_

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | NR |
| 7440-36-0 | Antimony | | | | NR |
| 7440-38-2 | Arsenic | | | | NR |
| 7440-39-3 | Barium | | | | NR |
| 7440-41-7 | Beryllium | | | | NR |
| 7440-43-9 | Cadmium | | | | NR |
| 7440-70-2 | Calcium | 9590 | | | P |
| 7440-47-3 | Chromium | | | | NR |
| 7440-48-4 | Cobalt | | | | NR |
| 7440-50-8 | Copper | | | | NR |
| 7439-89-6 | Iron | | | | NR |
| 7439-92-1 | Lead | | | | NR |
| 7439-95-4 | Magnesium | | | | NR |
| 7439-96-5 | Manganese | | | | NR |
| 7439-97-6 | Mercury | | | | NR |
| 7440-02-0 | Nickel | | | | NR |
| 7440-09-7 | Potassium | | | | NR |
| 7782-49-2 | Selenium | | | | NR |
| 7440-22-4 | Silver | | | | NR |
| 7440-23-5 | Sodium | | | | NR |
| 7440-28-0 | Thallium | | | | NR |
| 7440-62-2 | Vanadium | | | | NR |
| 7440-66-6 | Zinc | | | | NR |
| | Cyanide | | | | NR |

Color Before: COLORLESS_ Clarity Before: CLEAR__ Texture: _____

Color After: COLORLESS_ Clarity After: CLEAR__ Artifacts: _____

Comments:

DATE_REPORTED_11/4/02



BNLM127 S 71

# ATTACHMENT III

## Brookhaven National Laboratory
## Potable Water Supply

## 2002 Fourth Quarter Radiological Analyses for the BNL Potable Water Wells

**ATTACHMENT III**
**Table 2**
**Brookhaven National Laboratory**
**Potable Water Supply**

| Summary of Radiological Results for the BNL Potable Water Wells 2002 Fourth Quarter Monitoring Results | | | | |
|---|---|---|---|---|
| **Well ID** | **Gross Alpha pCi/L** | **Gross Beta pCi/L** | **Tritium pCi/L** | **Sr-90 pCi/L** |
| Well # 4 | < 0.58 | < 1.69 | < 286 | < 1.0 |
| Well # 6 | 0.81 | < 1.69 | < 286 | < 1.0 |
| Well # 7 | 2.86 | 1.72 | < 286 | < 1.0 |
| Well # 11 | 0.87 | < 1.69 | < 286 | < 1.0 |
| Well #12 | < 0.58 | < 1.69 | <286 | < 1.0 |
| Well # 4 (Duplicate) | < 0.58 | < 1.69 | < 286 | < 1.0 |

| ASL Prefix No. |
|---|
| 22102307 |

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION

SAMPLING CHAIN OF CUSTODY

| Chain of Custody No. |
|---|
| 15700 |

No. of Pages: 1

Requires EDD [X]
DOL

Carrier/Waybill #:
P.O. #:

| Analysis Requested By | | | Sampling Contractor | Analytical Laboratory | |
|---|---|---|---|---|---|
| Name: | D. Paquette | | Name: ESD Field Sampling | Name: | ASL |
| Life No. | 14314 | Ext. 7046 | Contact | Address: | |
| Acct. No. | 07089 | Dept. | Phone: | City: | St: Zip: |
| Email Reports to: | | | Email / Fax: | Contact: | |
| 1. | D. Paquette | | Sampler: L. Lettieri/B. Metz | Phone: | |
| 2 | | | | Email/Fax: | |
| Project Name | | | Project Manager | Field Engineer | |
| F-Wells | | | D. Paquette | | |

COMMENTS

| Type | | | | Sample Information | | | | | | Container | | | | Analysis Requested | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L.I.D. | U.I.D. | Smp | Col | Site I.D - Bldg. - Life # | Depth - RWP | Date | Time | Matrix | Description | Vol. / Units | Type | No. | Preservative | Alpha / Beta | Tritium | Gamma | Strontium | 524.2 | 624 | Nuclide Specific Alpha | PCB'x | Metals | |
| 01 | 001 | e | g | 056-401 | 92-137 | 10/23/02 | 1425 | W | Well #12 | 4.25 L. | | 2 | | X | X | X | | | | | | | |
| 02 | 002 | e | g | 056-400 | 93-142 | 10/23/02 | 1431 | W | Well #11 | 4.25 L. | | 2 | | X | X | X | | | | | | | |
| 03 | 003 | e | g | 093-400 | 98-150 | 10/23/02 | 1418 | W | Well #6 | 4.25 L. | | 2 | | X | X | X | | | | | | | |
| 04 | 004 | e | g | 092-400 | 99-150 | 10/23/02 | 1357 | W | Well #7 | 4.25 L. | | 2 | | X | X | X | | | | | | | |
| 05 | 005 | e | g | BD-1 | | 10/23/02 | | W | BD-1 - View Field Duplicate | 4.25 L. | | 2 | | X | X | X | | | | | | | |
| 06 | 006 | e | g | 083-400 | 99-147 | 10/23/02 | 1405 | W | Well #~~6~~ 4 MA 1-7-03 | 4.25 L. | | 2 | | X | X | X | | | | | | | |

| 1. Relinquished by / Date / Time | | 2. Relinquished by / Date / Time | 3. Relinquished by / Date / Time | Contractor Lab Sample Disposal |
|---|---|---|---|---|
| Signature: | L. Lettieri | Signature: | Signature: | Return to Client: ___ Disposal by lab: ___ |
| Date / Time: | 10/23/02 1440 | Date / Time: | Date / Time: | Archive for ___ Months |
| **1. Received by / Date / Time** | | **2. Received by / Date / Time** | **3. Received by / Date / Time** | **Turn Around Time Required:** |
| Signature: | P. Heotis | Signature: | Signature: | Rush 1 Day: ___ 14 Days ___ 30 Days ___ |
| Date / Time: | 10/23/02 1445 | Date / Time: | Date / Time: | 7 Days: ___ Other: ___ Days |

ASL Prefix No.
22102307

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION
Analytical Services Laboratory

RADIOLOGICAL REPORT

Reviewed by: Robert R. Gaschott 10/28/02

| SAMPLE I.D. NUMBER | ALPHA uCi/mL | ALPHA Error | BETA uCi/mL | BETA Error | TRITIUM uCi/mL | TRITIUM Error | MDL - uCi/mL Alpha | Beta | Tritium |
|---|---|---|---|---|---|---|---|---|---|
| 01 | 3.82E-10 | 3.59E-10 | 1.25E-09 | 1.05E-09 | -5.32E-08 | 2.04E-07 | 5.75E-10 | 1.69E-09 | 2.86E-07 |
| 02 | 8.68E-10 | 4.31E-10 | 1.41E-09 | 1.05E-09 | -1.25E-07 | 2.00E-07 | 5.75E-10 | 1.69E-09 | 2.86E-07 |
| 03 | 8.09E-10 | 4.19E-10 | 1.40E-09 | 1.05E-09 | 5.61E-08 | 2.12E-07 | 5.75E-10 | 1.69E-09 | 2.86E-07 |
| 04 | 2.86E-09 | 6.41E-10 | 1.72E-09 | 1.07E-09 | -1.00E-07 | 2.02E-07 | 5.75E-10 | 1.69E-09 | 2.86E-07 |
| 05 | 3.34E-10 | 3.52E-10 | 6.99E-10 | 1.02E-09 | 1.16E-07 | 2.14E-07 | 5.75E-10 | 1.69E-09 | 2.86E-07 |
| 06 | 1.55E-10 | 3.20E-10 | 1.48E-09 | 1.06E-09 | 2.27E-08 | 2.10E-07 | 5.75E-10 | 1.69E-09 | 2.86E-07 |
| | | | | | | | | | |
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ASL Prefix No.
22102307

Brookhaven National Laboratory
Radiological Control Division
Analytical Services Laboratory

GAMMA RESULTS

Reviewed by: Robert R. Gaschott 10/30/02

| Sample I.D. | Nuclide Name | Activity uCi/mL | 2-Sigma % Error |
|---|---|---|---|
| 01 | BI-214 | 7.08E-09 | 42.32 |
| | PB-214 | 8.32E-09 | 45.60 |
| 02 | PB-214 | 1.13E-08 | 27.17 |
| 03 | PB-214 | 1.19E-08 | 27.55 |
| 04 | There are no nuclides meeting summary criteria | | |
| 05 | PB-214 | 9.60E-09 | 43.95 |
| 06 | PB-214 | 6.34E-09 | 50.02 |

ASL Prefix No. 22102308

Page 1 of 1

**BROOKHAVEN** NATIONAL LABORATORY

Carrier/Waybill # _____

P.O.# 37572

Chain of Custody No. 15701

Requires EDD ☑ DQL ____

# SAMPLING CHAIN OF CUSTODY

| Analysis Requested By | Sampling Contractor | Analytical Laboratory |
|---|---|---|
| Name: D Paquette 7046 | Name: ESD Field Sampling | Name: GEL |
| Life No: 14314 Ext. ~~314~~ | Contact: | Address: |
| Acct. No: 07089 Dept: ES | Phone: | City: St: Zip: |
| Email Reports To: | Email/Fax: | Contact: |
| 1 D Paquette | Sampler: L Lettieri / B Metz | Phone: |
| 2 | | Email/Fax: |
| Project Name: F Wells | Project Manager: D Paquette | Field Engineer: |

Comments: 69346%

| Type: LID | Type: UID | Type: Smp | Type: Col | Sample Information: Site ID/Bldg/Life # | Depth/RWP | Date | Time | Hazard | Additional Sample Information: Name/Description | Cont.Vol./Units | Cont. Type | # of Cont. | Preservative | Alpha/Beta | Tritium | Gamma | Strontium 90 (EPA 905) | 524.2 | 624 | Nuclide-specific Alpha | PCBs | Metals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 | 001 | e | G | 056.401 | 92-137 | 10/23/02 | 1425 | W | Well #12 | 4l | P | 1 | HNO3 | | | | X | | | | | |
| 002 | 002 | e | G | 056-400 | 93-142 | 10/23/02 | 1431 | W | Well #11 | 4l | P | 1 | HNO3 | | | | X | | | | | |
| 003 | 003 | e | G | 093-400 | 98-150 | 10/23/02 | 1418 | W | Well #6 | 4l | P | 1 | HNO3 | | | | X | | | | | |
| 004 | 004 | e | G | 092-400 | 99-150 | 10/23/02 | 1357 | W | Well #7 | 4l | P | 1 | HNO3 | | | | X | | | | | |
| 005 | 005 | e | G | BD-1 | — | 10/23/02 | — | W | BD-1 | 4l | P | 1 | HNO3 | | | | X | | | | | |
| 006 | 006 | e | G | 083-400 | 95-147 | 10/23/02 | 1405 | W | Well #4 | 4l | P | 1 | HNO3 | | | | X | | | | | |

| 1 Relinquished By/Date/Time | 2 Relinquished By/Date/Time | 3 Relinquished By/Date/Time |
|---|---|---|
| Print L Lettieri 10/23/02 | Print | Print |
| Signature [signature] 1445 | Signature | Signature |
| **1 Received By/Date/Time** | **2 Received By/Date/Time** | **3 Received By/Date/Time** |
| Print J. Harley 10/24/02 | Print | Print |
| Signature J M Harley 0900 | Signature | Signature |

Contractor Lab Sample Disposal:
☐ Return To Client ☐ Disposal by Lab
☐ Archive For _____ Months

Data Package: ☐ Full ☐ Summary

Turn-Around Time Required:
☐ Rush (1 Day) ☐ 14 Days ☐ 30 Days
☐ 7 Days ☐ Other ( )

BNL F 3101C

Distribution WHITE (1) - Stays with Sample; PINK (2) - Lab or Other GREEN (3) - Returned to Client with Report GOLDENROD (4) - Field Copy - (Sampler)

# GENERAL ENGINEERING LABORATORIES

*Meeting today's needs with a vision for tomorrow.*

## Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: November 12, 2002

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

| | | | |
|---|---|---|---|
| Client Sample ID: | 15701-006 | Project: | BRKL00101 |
| Sample ID: | 69346006 | Client ID: | BRKL002 |
| Matrix: | Water | COC: | 22102308/15701 |
| Collect Date: | 23-OCT-02 14:05 | Samp Recv.: | 22102308/15701 |
| Receive Date: | 24-OCT-02 09:00 | Client Desc.: | 083-400 |
| Collector: | Client | | |

| Parameter | Qualifier | Result | | DL | RL | Units | DF | AnalystDate | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rad Gas Flow** | | | | | | | | | | | |
| *GFPC, Sr90, liquid* | | | | | | | | | | | |
| Strontium-90 | U | 0.00157 | +/-0.327 | 0.754 | 1.00 | pCi/L | | AB2 | 11/06/02 2327 | 211467 | 1 |

**The following Analytical Methods were performed**

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 905.0 Modified | |

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Drum
Reviewed by

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(843) 556-8171 • Fax (843) 766-1178

Printed on Recycled Paper.

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Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: November 12, 2002

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID: 15701-005
Sample ID: 69346005
Matrix: Water
Collect Date: 23-OCT-02 00:00
Receive Date: 24-OCT-02 09:00
Collector: Client

Project: BRKL00101
Client ID: BRKL002
COC: 22102308/15701
Samp Recv.: 22102308/15701
Client Desc.: BD-1

| Parameter | Qualifier | Result | | DL | RL | Units | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rad Gas Flow** | | | | | | | | | | | | |
| *GFPC, Sr90, liquid* | | | | | | | | | | | | |
| Strontium-90 | U | 0.119 | +/-0.334 | 0.753 | 1.00 | pCi/L | | AB2 | 11/06/02 | 2327 | 211467 | 1 |

**The following Analytical Methods were performed**

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 905.0 Modified | |

Notes:
The Qualifiers in this report are defined as follows :

Potable Well #4
Duplicate

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

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Reviewed by

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Upton, New York 11973

Report Date: November 12, 2002

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID: 15701-003
Sample ID: 69346003
Matrix: Water
Collect Date: 23-OCT-02 14:18
Receive Date: 24-OCT-02 09:00
Collector: Client

Project: BRKL00101
Client ID: BRKL002
COC: 22102308/15701
Samp Recv.: 22102308/15701
Client Desc.: 093-400

| Parameter | Qualifier | Result | | DL | RL | Units | DF | AnalystDate | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rad Gas Flow** | | | | | | | | | | | |
| *GFPC, Sr90, liquid* | | | | | | | | | | | |
| Strontium-90 | U | 0.0707 | +/-0.288 | 0.657 | 1.00 | pCi/L | | AB2 11/06/02 | 2327 | 211467 | 1 |

**The following Analytical Methods were performed**

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 905.0 Modified | |

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

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Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: November 12, 2002

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

| | | | |
|---|---|---|---|
| Client Sample ID: | 15701-004 | Project: | BRKL00101 |
| Sample ID: | 69346004 | Client ID: | BRKL002 |
| Matrix: | Water | COC: | 22102308/15701 |
| Collect Date: | 23-OCT-02 13:57 | Samp Recv.: | 22102308/15701 |
| Receive Date: | 24-OCT-02 09:00 | Client Desc.: | 092-400 |
| Collector: | Client | | |

| Parameter | Qualifier | Result | | DL | RL | Units | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rad Gas Flow** | | | | | | | | | | | | |
| *GFPC, Sr90, liquid* | | | | | | | | | | | | |
| Strontium-90 | U | 0.232 | +/-0.321 | 0.706 | 1.00 | pCi/L | | AB2 | 11/06/02 | 2327 | 211467 | 1 |

**The following Analytical Methods were performed**

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 905.0 Modified | |

Potable Well #7

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, Inc. standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Drum
Reviewed by

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## Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: November 12, 2002

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID: 15701-002
Sample ID: 69346002
Matrix: Water
Collect Date: 23-OCT-02 14:31
Receive Date: 24-OCT-02 09:00
Collector: Client

Project: BRKL00101
Client ID: BRKL002
COC: 22102308/15701
Samp Recv.: 22102308/15701
Client Desc.: 056-400

| Parameter | Qualifier | Result | | DL | RL | Units | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rad Gas Flow** | | | | | | | | | | | | |
| *GFPC, Sr90, liquid* | | | | | | | | | | | | |
| Strontium-90 | U | 0.161 | +/-0.333 | 0.765 | 1.00 | pCi/L | | AB2 | 11/07/02 | 1244 | 211467 | 1 |

**The following Analytical Methods were performed**

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 905.0 Modified | |

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

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Valerie Drum
Reviewed by

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## Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: November 12, 2002

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

| | | | |
|---|---|---|---|
| Client Sample ID: | 15701-001 | Project: | BRKL00101 |
| Sample ID: | 69346001 | Client ID: | BRKL002 |
| Matrix: | Water | COC: | 22102308/15701 |
| Collect Date: | 23-OCT-02 14:25 | Samp Recv.: | 22102308/15701 |
| Receive Date: | 24-OCT-02 09:00 | Client Desc.: | 056-401 |
| Collector: | Client | | |

| Parameter | Qualifier | Result | | DL | RL | Units | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rad Gas Flow** | | | | | | | | | | | | |
| *GFPC, Sr90, liquid* | | | | | | | | | | | | |
| Strontium-90 | U | 0.157 | +/-0.335 | 0.751 | 1.00 | pCi/L | | AB2 | 11/06/02 | 2308 | 211467 | 1 |

**The following Analytical Methods were performed**

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 905.0 Modified | |

Potable Well #12

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

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Valerie Davis
Reviewed by

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# ATTACHMENT IV

## Brookhaven National Laboratory
## Potable Water Supply

## 2002 Fourth Quarter Principal Organic Compound Analyses for the BNL Potable Water Wells

# 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 :** Tony Ross

**Lab No. : 0210345-021**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
Collected 10/10/2002 12:50:00 PM Point No 8
Received 10/10/2002 3:00:00 PM Location: Well #4 Raw
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-020**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 2:13:16 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Bromochloromethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Chloroform | 7.0 | J | µg/L | 50 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,1,1-Trichloroethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 2:13:16 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 2:13:16 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 2:13:16 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,4-Dichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |

VPA

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 49

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 :** Tony Ross

**Lab No. : 0210345-021**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
Collected 10/10/2002 12:50:00 PM Point No 8
Received 10/10/2002 3:00:00 PM Location: Well #4 Raw
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-020**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 2:13:16 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |
| n-Butylbenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 2:13:16 AM |

RH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 50

# 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 :** Tony Ross

**Lab No. : 0210345-022**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
**Client ID. : 14859-021**
Collected 10/10/2002 1:05:00 PM Point No 9
Received 10/10/2002 3:00:00 PM Location: Well #6 Raw
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | U5 | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 3:10:39 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 3:10:39 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 3:10:39 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 3:10:39 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,4-Dichlorobenzene | < 0.5 | U5 | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 51

# 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 :** Tony Ross

**Lab No. : 0210345-022**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
Collected 10/10/2002 1:05:00 PM Point No 9
Received 10/10/2002 3:00:00 PM Location: Well #6 Raw
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-021**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 3:10:39 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |
| n-Butylbenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 3:10:39 AM |

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127S52

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 :** Tony Ross

**Lab No. : 0210345-023**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
Collected 10/10/2002 1:15:00 PM Point No 10
Received 10/10/2002 3:00:00 PM Location: Well #7 Raw
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-022**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 4:07:59 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 4:07:59 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 4:07:59 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 4:07:59 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,4-Dichlorobenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 53

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 :** Tony Ross

**Lab No. : 0210345-023**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
Collected 10/10/2002 1:15:00 PM Point No 10
Received 10/10/2002 3:00:00 PM Location: Well #7 Raw
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-022**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 4:07:59 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |
| n-Butylbenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 4:07:59 AM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 54

# 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 :** Tony Ross

**Lab No. : 0210345-024**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
Collected 10/10/2002 10:30:00 AM Point No 11
Received 10/10/2002 3:00:00 PM Location: Well #10 Raw
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-023**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 5:05:45 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 5:05:45 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 5:05:45 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 5:05:45 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,4-Dichlorobenzene | < 0.5 | UJ RK | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 55

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 :** Tony Ross

**Lab No. : 0210345-024**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
**Client ID. : 14859-023**
Collected 10/10/2002 10:30:00 AM Point No 11
Received 10/10/2002 3:00:00 PM Location: Well #10 Raw
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 5:05:45 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |
| n-Butylbenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 5:05:45 AM |

RH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 56

**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 :** Tony Ross

**Lab No. : 0210345-026**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
**Client ID. : 14859-025**
Collected 10/10/2002 11:00:00 AM Point No 12
Received 10/10/2002 3:00:00 PM Location: Well #11 Raw
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 7:03:25 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 7:03:25 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 7:03:25 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 7:03:25 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,4-Dichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |

RH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 59

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 :** Tony Ross

**Lab No. : 0210345-026**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
**Client ID. : 14859-025**
Collected 10/10/2002 11:00:00 AM Point No 12
Received 10/10/2002 3:00:00 PM Location: Well #11 Raw
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 7:03:25 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |
| n-Butylbenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 7:03:25 AM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 60

# 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 :** Tony Ross

**Lab No. : 0210345-028**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
**Client ID. : 14859-027**
Collected 10/10/2002 10:45:00 AM Point No 13
Received 10/10/2002 3:00:00 PM Location: Well #12 Raw
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | U | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 9:02:08 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 9:02:08 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 9:02:08 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 9:02:08 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,4-Dichlorobenzene | < 0.5 | U | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 63

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 :** Tony Ross

**Lab No. : 0210345-028**

**Sample Information...**
Type : Potable Water
Origin: Raw Well

Federal ID 5111891
**Client ID. : 14859-027**
Collected 10/10/2002 10:45:00 AM Point No 13
Received 10/10/2002 3:00:00 PM Location: Well #12 Raw
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 9:02:08 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |
| n-Butylbenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 9:02:08 AM |

RH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 64

**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 :** Tony Ross

**Lab No. : 0210345-025**

**Sample Information...**
Type : Potable Water
Origin: Treated Well

Federal ID 5111891
**Client ID. : 14859-024**
Collected 10/10/2002 10:30:00 AM Point No 055-36
Received 10/10/2002 3:00:00 PM Location: Well #10 Gac Filter 654
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 6:04:57 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 6:04:57 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 6:04:57 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 6:04:57 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,4-Dichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 57

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 :** Tony Ross

**Lab No. : 0210345-025**

**Sample Information...**
Type : Potable Water
Origin: Treated Well

Federal ID 5111891
**Client ID. : 14859-024**
Collected 10/10/2002 10:30:00 AM Point No 055-36
Received 10/10/2002 3:00:00 PM Location: Well #10 Gac Filter 654
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 6:04:57 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |
| n-Butylbenzene | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 6:04:57 AM |

RH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 58

# 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 : Tony Ross

Lab No. : 0210345-027

Sample Information...
Type : Potable Water
Origin: Treated Well

Federal ID 5111891
Client ID. : 14859-026
Collected 10/10/2002 11:00:00 AM Point No 056-31
Received 10/10/2002 3:00:00 PM Location: Well #11 Gac Filter 655
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 8:01:42 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Chloroform | < 0.5 | UJ | µg/L | 50 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,1,1-Trichloroethane | 0.7 | J | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Carbon tetrachloride | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 8:01:42 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 8:01:42 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 8:01:42 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,4-Dichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |

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

Date Reported : 11/7/2002

Joann M. Slavin
Laboratory Manager



BNLM127 S 61

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 :** Tony Ross

**Lab No. : 0210345-027**

**Sample Information...**
Type : Potable Water
Origin: Treated Well

Federal ID 5111891
**Client ID. : 14859-026**
Collected 10/10/2002 11:00:00 AM Point No 056-31
Received 10/10/2002 3:00:00 PM Location: Well #11 Gac Filter 655
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 8:01:42 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |
| n-Butylbenzene | < 0.5 | UJ PH | µg/L | 5 | E502.2 | 10/23/2002 8:01:42 AM |

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 62

# 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 :** Tony Ross

**Lab No. : 0210345-029**

**Sample Information...**
Type : Potable Water
Origin: Treated Well

Federal ID 5111891 **Client ID. : 14859-028**
Collected 10/10/2002 10:45:00 AM Point No 056-32
Received 10/10/2002 3:00:00 PM Location: Well #12 Gac Filter 657
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 10:03:47 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 10:03:47 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 10:03:47 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 10:03:47 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,4-Dichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |

RH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 65

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 :** Tony Ross

**Lab No. : 0210345-029**

**Sample Information...**
Type : Potable Water
Origin: Treated Well

Federal ID 5111891
**Client ID. : 14859-028**
Collected 10/10/2002 10:45:00 AM Point No 056-32
Received 10/10/2002 3:00:00 PM Location: Well #12 Gac Filter 657
Collected By CLIENT
Copies To Tony Ross

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Hexachlorobutadiene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Benzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Toluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Ethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| m,p-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| o-Xylene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Styrene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Isopropylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| n-Propylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| Methyl tert-butyl ether | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 10:03:47 AM |
| tert-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| 4-Isopropyltoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| sec-Butylbenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |
| n-Butylbenzene | < 0.5 | UJ | µg/L | 5 | E502.2 | 10/23/2002 10:03:47 AM |

RH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



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# 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 :** Tony Ross

**Lab No. : 0210345-020**

**Sample Information...**
Type : Potable Water
Origin: Treated Well

Federal ID 5111891
Collected 10/10/2002 11:30:00 AM Point No 22
Received 10/10/2002 3:00:00 PM Location: Bldg. 624 Wtp
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-019**

| Parameter(s) | Results | | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | < 0.5 | U J | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Chloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Vinyl chloride | < 0.5 | | µg/L | 2 | E502.2 | 10/23/2002 1:15:49 AM |
| Bromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Chloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Trichlorofluoromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,1-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Methylene chloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| trans-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,1-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| cis-1,2-Dichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 2,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Bromochloromethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Chloroform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,1,1-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Carbon tetrachloride | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,1-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,2-Dichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Trichloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,2-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Dibromomethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Bromodichloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 1:15:49 AM |
| trans-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| cis-1,3-Dichloropropene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,1,2-Trichloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Tetrachloroethene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,3-Dichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Dibromochloromethane | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 1:15:49 AM |
| Chlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,1,1,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Bromoform | < 0.5 | | µg/L | 50 | E502.2 | 10/23/2002 1:15:49 AM |
| Bromobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,1,2,2-Tetrachloroethane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,2,3-Trichloropropane | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 2-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 4-Chlorotoluene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,2-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,3-Dichlorobenzene | < 0.5 | | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,4-Dichlorobenzene | < 0.5 | U J PH | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



BNLM127 S 47

**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 :** Tony Ross

Lab No. : **0210345-020**

**Sample Information...**
Type : Potable Water
Origin: Treated Well

Federal ID 5111891
Collected 10/10/2002 11:30:00 AM Point No 22
Received 10/10/2002 3:00:00 PM Location: Bldg. 624 Wtp
Collected By CLIENT
Copies To Tony Ross

**Client ID. : 14859-019**

| Parameter(s) | Results | Units | Limit | Method Number | Analyzed |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | < 0.5 U J | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Hexachlorobutadiene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,2,3-Trichlorobenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Benzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Toluene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Ethylbenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| m,p-Xylene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| o-Xylene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Styrene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Isopropylbenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| n-Propylbenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,3,5-Trimethylbenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| Methyl tert-butyl ether | < 0.5 | µg/L | 50 | E502.2 | 10/23/2002 1:15:49 AM |
| tert-Butylbenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 1,2,4-Trimethylbenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| 4-Isopropyltoluene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| sec-Butylbenzene | < 0.5 | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |
| n-Butylbenzene | < 0.5 U J | µg/L | 5 | E502.2 | 10/23/2002 1:15:49 AM |

PH

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

Joann M. Slavin
Laboratory Manager

Date Reported : 11/7/2002



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