

March 8, 2000

Ms. Kathleen Newcomer
Suffolk County Department
of Health Services
Drinking Water Supply Section
415 Oser Ave., Suite 3
Hauppauge, New York 11788

Dear Ms. Newcomer:

SUBJECT: Monthly Water Treatment Plant Reports

Reference: Suffolk County Minimum Monitoring Requirements for February 2000

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2000 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 Bacteriological and Operational Reports for February 2000;
- Attachment II: February 2000 Biweekly Water Quality Monitoring Data for BNL Well Water Samples and Quarterly Water Quality Data for the BNL Distribution System;
- Attachment III: 2000 Semi-Annual Inorganic Analyses for the BNL Potable Water Distribution System;
- Attachment IV: 2000 First Quarter Principal Organic Compound Analyses for the BNL Potable Water Wells;
- Attachment V: 2000 First Quarter Radiological Analyses for Well Water Samples.

March 8, 2000

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 (QA) program, the SCDHS Community Water Supply Monitoring Requirements, and the BNL Potable Water System Sampling Plan. Routine monitoring samples are collected by Plant Engineering Division (PE) personnel using standard operating procedures and analyses are performed by a contractor laboratory using standard methods of analysis. The QA documentation is available from the Environmental Services Division (ESD) and PE 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 (ESD) at (631) 344-3148 or W. Chaloupka (PE) at (631) 344-7136.

Sincerely,



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

EAZ/MA:rt

Attachments: As noted

cc: K. Brog w/o attachments
W. Chaloupka w/attachments
R. Lee w/attachments
E. Murphy w/attachments
P. Ponturo, SCDHS, w/o attachments
L. Ross w/o attachments
R. Simeone w/attachments

EC4120.00



ATTACHMENT I

**Brookhaven National Laboratory
Potable Water Supply**

**Monthly Bacteriological and Operational
Reports for February 2000**

2000 First Quarter Bacteriological Results for Well Water Samples

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD : **February 2000**

LOCATION: WATER TREATMENT PLANT

Did an emergency occur in any part of the water system? yes _____ no

Does the system have a chlorination waiver? yes _____ no

Source: Ground Water

| Day of month | CHLORINATION | | | | pH | | Totalizer Daily Totalizer 11767857 |
|-----------------|----------------------------|----------------------------|----------------------------------|--|-----------------------------|-----------|--|
| | Treated Water K Ga's | Liquid Sodium Hypochlorite | | Free Cl ₂ Residual mg/l | Lime Sodium Hydroxide | Totalizer | |
| | | Gallons | Cl ₂ use per 24hrs | | | | |
| 1 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 2 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 3 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 4 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 5 | 0 | | | | | | |
| 6 | 0 | | | | | | |
| 7 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 8 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 9 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 10 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 11 | 0 | 200/145 | 0 | NR | NR | 11767857 | |
| 12 | 0 | | | | | | |
| 13 | 0 | | | | | | |
| 14 | 2 | 200/145 | 0 | NR | NR | 11767859 | |
| 15 | 0 | 200/145 | 0 | NR | NR | 11767859 | |
| 16 | 0 | 200/145 | 0 | NR | NR | 11767859 | |
| 17 | 0 | 200/145 | 0 | NR | NR | 11767859 | |
| 18 | 0 | 200/145 | 0 | NR | NR | 11767859 | |
| 19 | 0 | 200/145 | 0 | NR | NR | 11767859 | |
| 20 | 0 | | | | | | |
| 21 | 0 | | | | | | |
| 22 | 6 | 200/145 | 0 | NR | NR | 11767865 | |
| 23 | 0 | 200/145 | 0 | NR | NR | 11767865 | |
| 24 | 0 | 200/145 | 0 | NR | NR | 11767865 | |
| 25 | 0 | 200/145 | 0 | NR | NR | 11767865 | |
| 26 | 0 | | | | | | |
| 27 | 0 | | | | | | |
| 28 | 0 | 200/145 | 0 | NR | NR | 11767865 | |
| 29 | 0 | 200/145 | 0 | NR | NR | 11767865 | |
| 30 | 0 | | | | | | |
| 31 | 0 | | | | | | |
| TOT | 8 | | 0 | | | | |
| AVG. | 0.28 | | 0.00 | No. Days: | 29 | | |

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? N/A

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: SLR ROBY

Date: 3-1-00

Title: WATER SYSTEMS SUPERVISOR

Cert. #: 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

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|------------------|------------------|----------------|--------------------|---------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD : | February 2000 |
|------------------|------------------|----------------|--------------------|---------------|

LOCATION: WELL NO. 4

Did an emergency occur in any part of the water system? yes no

Does the system have a chlorination waiver? yes no

Source: Ground Water

| Day of Month | CHLORINATION | | | | pH | | Totalizer Daily Totalizer 1324720 |
|-----------------|------------------|----------------------------|----------------------------------|--|-----------------------------|-----------|---|
| | Treated Water | Liquid Sodium Hypochlorite | | Free Cl ₂ Residual mg/l | Lime Sodium Hydroxide | Totalizer | |
| | | Gallons | Cl ₂ use per 24hrs | | | | |
| 1 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 2 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 3 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 4 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 5 | 0 | | | | | | |
| 6 | 0 | | | | | | |
| 7 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 8 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 9 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 10 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 11 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 12 | 0 | | | | | | |
| 13 | 0 | | | | | | |
| 14 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 15 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 16 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 17 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 18 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 19 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 20 | 0 | | | | | | |
| 21 | 0 | | | | | | |
| 22 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 23 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 24 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 25 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 26 | 0 | | | | | | |
| 27 | 0 | | | | | | |
| 28 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 29 | 0 | 145 | 0 | NR | NR | 1324720 | |
| 30 | 0 | | | | | | |
| 31 | 0 | | | | | | |
| TOT | 0 | | 0 | | | | |
| AVG | 0.00 | | 0.00 | No. Days: | 29 | | |

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? NO

If yes, check reason(s) below.

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

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

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

Reported by Lo Remy

Date: 3-1-00

Title WATER SYSTEMS SUPERVISOR

Cert. # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD : February 2000

LOCATION: WELL NO. 6

Did an emergency occur in any part of the water system? yes ___ no
 Does the system have a chlorination waiver? yes ___ no

Source: Ground Water

| Day of month | CHLORINATION | | | | pH | | Totalizer Daily Totalizer 6202 |
|-----------------|------------------|----------------------------|---------|--|-----------------------------|-----------|--------------------------------------|
| | Treated Water | Liquid Sodium Hypochlorite | | Free Cl ₂ Residual mg/l | Lime Sodium Hydroxide | Totalizer | |
| | | K Gals | Gallons | | | | |
| 1 | 0 | 160 | 0 | NR | NR | 6202 | |
| 2 | 0 | 160 | 0 | NR | NR | 6202 | |
| 3 | 0 | 160 | 0 | NR | NR | 6202 | |
| 4 | 0 | 160 | 0 | NR | NR | 6202 | |
| 5 | 0 | | | | | | |
| 6 | 0 | | | | | | |
| 7 | 0 | 160 | 0 | NR | NR | 6202 | |
| 8 | 0 | 160 | 0 | NR | NR | 6202 | |
| 9 | 0 | 160 | 0 | NR | NR | 6202 | |
| 10 | 0 | 160 | 0 | NR | NR | 6202 | |
| 11 | 0 | 160 | 0 | NR | NR | 6202 | |
| 12 | 0 | | | | | | |
| 13 | 0 | | | | | | |
| 14 | 0 | 160 | 0 | NR | NR | 6202 | |
| 15 | 0 | 160 | 0 | NR | NR | 6202 | |
| 16 | 0 | 160 | 0 | NR | NR | 6202 | |
| 17 | 0 | 160 | 0 | NR | NR | 6202 | |
| 18 | 0 | 160 | 0 | NR | NR | 6202 | |
| 19 | 0 | 160 | 0 | NR | NR | 6202 | |
| 20 | 0 | | | | | | |
| 21 | 0 | | | | | | |
| 22 | 0 | 160 | 0 | NR | NR | 6202 | |
| 23 | 0 | 160 | 0 | NR | NR | 6202 | |
| 24 | 0 | 160 | 0 | NR | NR | 6202 | |
| 25 | 0 | 160 | 0 | NR | NR | 6202 | |
| 26 | 0 | | | | | | |
| 27 | 0 | | | | | | |
| 28 | 0 | 160 | 0 | NR | NR | 6202 | |
| 29 | 0 | 160 | 0 | NR | NR | 6202 | |
| 30 | 0 | | | | | | |
| 31 | 0 | | | | | | |
| TOT | 0 | | 0 | | | 0 | |
| AVG. | 0.00 | | 0.00 | No. Days | 29 | | |

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? no

If yes, check reason(s) below.

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

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

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

Reported by J. Ross

Date 3-1-00

Title WATER SYSTEMS SUPERVISOR

Cert # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

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|------------------|------------------|----------------|--------------------|---------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD : | February 2000 |
|------------------|------------------|----------------|--------------------|---------------|

LOCATION: WELL NO. 7

Source: Ground Water

Did an emergency occur in any part of the water system? yes ___ no

Does the system have a chlorination waiver? yes ___ no

| Day of Month | CHLORINATION | | | pH | | Totalizer Daily Totalizer |
|--------------|-------------------------|----------------------------|----------------------------------|--|-----------------------------|------------------------------|
| | Treated Water K Gals | Liquid Sodium Hypochlorite | | Free Cl ₂ Residual mg/l | Lime Sodium Hydroxide | |
| | | Gallons | Cl ₂ use per 24hrs | | | |
| 1 | 0 | 170 | 0 | NR | NR | 7264 |
| 2 | 0 | 170 | 0 | NR | NR | 7264 |
| 3 | 0 | 170 | 0 | NR | NR | 7264 |
| 4 | 0 | 170 | 0 | NR | NR | 7264 |
| 5 | 0 | | | | | |
| 6 | 0 | | | | | |
| 7 | 0 | 170 | 0 | NR | NR | 7264 |
| 8 | 0 | 170 | 0 | NR | NR | 7264 |
| 9 | 70 | 170 | 0 | NR | NR | 7334 |
| 10 | 0 | 170 | 0 | NR | NR | 7334 |
| 11 | 0 | 170 | 0 | NR | NR | 7334 |
| 12 | 0 | | | | | |
| 13 | 0 | | | | | |
| 14 | 0 | 170 | 0 | NR | NR | 7334 |
| 15 | 0 | 170 | 0 | NR | NR | 7334 |
| 16 | 0 | 170 | 0 | NR | NR | 7334 |
| 17 | 0 | 170 | 0 | NR | NR | 7334 |
| 18 | 0 | 170 | 0 | NR | NR | 7334 |
| 19 | 0 | 170 | 0 | NR | NR | 7334 |
| 20 | 0 | | | | | |
| 21 | 0 | | | | | |
| 22 | 0 | 170 | 0 | NR | NR | 7334 |
| 23 | 0 | 170 | 0 | NR | NR | 7334 |
| 24 | 0 | 170 | 0 | NR | NR | 7334 |
| 25 | 0 | 170 | 0 | NR | NR | 7334 |
| 26 | 0 | | | | | |
| 27 | 0 | | | | | |
| 28 | 463 | 161 | 9 | NR | NR | 7797 |
| 29 | 399 | 160 | 1 | NR | NR | 8196 |
| 30 | 0 | | | | | |
| 31 | 0 | | | | | |
| TOT | 932 | | 10 | | | 0 |
| AVG | 32.14 | | 0.34 | No Days | 29 | |

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? no

If yes, check reason(s) below.

___ Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or turb) 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 JC Rose

Date 3-1-00

Title WATER SYSTEMS SUPERVISOR

Cert. # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

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|------------------|------------------|----------------|----------------------------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD : February 2000 |
|------------------|------------------|----------------|----------------------------------|

LOCATION: WELL NO. 10

Source: Ground Water

Did an emergency occur in any part of the water system? yes ___ no

Does the system have a chlorination waiver? yes ___ no

| Day of month | CHLORINATION | | | | pH | | Totalizer Daily Totalizer |
|--------------|---------------|----------------------------|-------------------------------|-------------------------------|------|------------------|------------------------------|
| | Treated Water | Liquid Sodium Hypochlorite | | Free Cl ₂ Residual | Lime | Sodium Hydroxide | |
| | | Gallons | Cl ₂ use per 24hrs | | mg/l | | |
| 1 | 0 | 190 | 0 | 0.64 | 7.5 | 763224 | |
| 2 | 0 | 190 | 0 | NR | NR | 763224 | |
| 3 | 11 | 190 | 0 | NR | NR | 763235 | |
| 4 | 0 | 190 | 0 | NR | NR | 763235 | |
| 5 | 0 | | | | | | |
| 6 | 0 | | | | | | |
| 7 | 0 | 190 | 0 | NR | NR | 763235 | |
| 8 | 7 | 189 | 1 | NR | NR | 763242 | |
| 9 | 220 | 185 | 4 | NR | NR | 763462 | |
| 10 | 0 | 185 | 0 | NR | NR | 763462 | |
| 11 | 0 | 185 | 0 | NR | NR | 763462 | |
| 12 | 0 | | | | | | |
| 13 | 0 | | | | | | |
| 14 | 0 | 185 | 0 | NR | NR | 763462 | |
| 15 | 0 | 185 | 0 | NR | NR | 763462 | |
| 16 | 0 | 185 | 0 | NR | NR | 763462 | |
| 17 | 0 | 185 | 0 | NR | NR | 763462 | |
| 18 | 0 | 185 | 0 | NR | NR | 763462 | |
| 19 | 0 | 185 | 0 | NR | NR | 763462 | |
| 20 | 0 | | | | | | |
| 21 | 0 | | | | | | |
| 22 | 0 | 185 | 0 | NR | NR | 763462 | |
| 23 | 35 | 185 | 0 | NR | NR | 763497 | |
| 24 | 0 | 185 | 0 | NR | NR | 763497 | |
| 25 | 0 | 185 | 0 | NR | NR | 763497 | |
| 26 | 0 | | | | | | |
| 27 | 0 | | | | | | |
| 28 | 0 | 185 | 0 | NR | NR | 763497 | |
| 29 | 0 | 185 | 0 | NR | NR | 763497 | |
| 30 | 0 | | | | | | |
| 31 | 0 | | | | | | |
| TOT | 273 | | 5 | | | 0 | |
| AVG. | 9.41 | | 0.17 | No Days | 29 | | |

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? no

If yes, check reason(s) below

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

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

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

Reported by Lo Rosa

Date: 3-1-00

Title WATER SYSTEMS SUPERVISOR

Cert # 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

PROGRAM CODE 169 STATION 11515100 SUFFOLK COUNTY REPORTING PERIOD : **February 2000**

LOCATION: WELL NO. 11

Did an emergency occur in any part of the water system? yes ___ no
 Does the system have a chlorination waiver? yes ___ no

Source: Ground Water

| Day of Month | CHLORINATION | | | | pH | | Totalizer Daily Totalizer |
|--------------|---------------|---------------------------------------|----------------------------------|---------------------|----------------|-----------|------------------------------|
| | Treated Water | Liquid Sodium Hypochlorite Gallons | Free Cl ₂ Residual | Cl ₂ use | Lime Sodium | Totalizer | |
| | K Gals | 80 | mg/l | per 24hrs | Hydroxide | 269299 | |
| 1 | 0 | 80 | 0 | 0.67 | 7 | 269299 | |
| 2 | 300 | 76 | 4 | 1 | 7 | 269599 | |
| 3 | 25 | 75 | 1 | NR | NR | 269624 | |
| 4 | 270 | 72 | 3 | NR | NR | 269894 | |
| 5 | 0 | | | | | | |
| 6 | 0 | | | | | | |
| 7 | 427 | 70 | 2 | NR | NR | 270321 | |
| 8 | 230 | 65 | 5 | NR | NR | 270551 | |
| 9 | 178 | 60+140 | 5 | NR | NR | 270729 | |
| 10 | 141 | 196 | 4 | 7.6 | 1.5 | 270870 | |
| 11 | 399 | 190 | 6 | NR | NR | 271269 | |
| 12 | 0 | | | | | | |
| 13 | 0 | | | | | | |
| 14 | 722 | 190 | 0 | 1 | 7.6 | 271991 | |
| 15 | 146 | 188 | 2 | NR | NR | 272137 | |
| 16 | 315 | 185 | 3 | NR | NR | 272452 | |
| 17 | 232 | 182 | 3 | NR | NR | 272684 | |
| 18 | 233 | 180 | 2 | NR | NR | 272917 | |
| 19 | 193 | 180 | 0 | NR | NR | 273110 | |
| 20 | 0 | | | | | | |
| 21 | 0 | | | | | | |
| 22 | 510 | 180 | 0 | NR | NR | 273520 | |
| 23 | 191 | 180 | 0 | NR | NR | 273811 | |
| 24 | 239 | 177 | 3 | NR | NR | 274050 | |
| 25 | 341 | 173 | 4 | 0 | 7.6 | 274391 | |
| 26 | 0 | | | | | | |
| 27 | 0 | | | | | | |
| 28 | 191 | 170 | 3 | NR | NR | 274582 | |
| 29 | 197 | 170 | 0 | NR | NR | 274779 | |
| 30 | 0 | | | | | | |
| 31 | 0 | | | | | | |
| TOT | 5,480 | | 50 | | | | |
| AVG | 188.97 | | 1.72 | No Days | 29 | | |

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? 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: SC Lopez

Date: 3-1-00

Title: WATER SYSTEMS SUPERVISOR

Cert #: 05650

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

Public Water Supply Protection

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|------------------|------------------|----------------|--------------------|---------------|
| PROGRAM CODE 169 | STATION 11515100 | SUFFOLK COUNTY | REPORTING PERIOD : | February 2000 |
|------------------|------------------|----------------|--------------------|---------------|

LOCATION: WELL NO. 12

Did an emergency occur in any part of the water system? yes ___ no

Does the system have a chlorination waiver? yes ___ no

Source: Ground Water

| Day of month | CHLORINATION | | | | pH | | Totalizer Daily Totalizer |
|-----------------|------------------|----------------------------|---------|---------------------------------|------|---------------------|------------------------------|
| | Treated Water | Liquid Sodium Hypochlorite | | Free Cl ₂ | Lime | Sodium Hydroxide | |
| | | K Gals | Gallons | Cl ₂ use Residual | mg/l | | |
| | | 80 | | | | | 141787 |
| 1 | 1,467 | 72 | 8 | 0.65 | 8.6 | | 143254 |
| 2 | 1,468 | 59 | 13 | 0.92 | 8.2 | | 144722 |
| 3 | 1,509 | 50+120 | 9 | 0.57 | 8.1 | | 146231 |
| 4 | 1,510 | 165 | 5 | 0.71 | 8.1 | | 147741 |
| 5 | 0 | | | | | | |
| 6 | 0 | | | | | | |
| 7 | 4,441 | 138 | 27 | 0.61 | 7.8 | | 152182 |
| 8 | 1,480 | 130 | 8 | 0.52 | 7.8 | | 153662 |
| 9 | 1,503 | 115+40 | 15 | 1 | 8 | | 155165 |
| 10 | 1,437 | 145 | 10 | 0.72 | 8 | | 156602 |
| 11 | 1,446 | 140 | 5 | | 8 | | 158048 |
| 12 | 0 | | | | | | |
| 13 | 0 | | | | | | |
| 14 | 4,292 | 118 | 22 | 0.77 | 7.9 | | 162340 |
| 15 | 1,450 | 110 | 8 | 0.53 | 8.3 | | 163790 |
| 16 | 1,463 | 100 | 10 | 0.6 | 8.3 | | 165253 |
| 17 | 1,578 | 93 | 7 | 0.6 | 8.3 | | 166831 |
| 18 | 1,316 | 85 | 8 | 0.6 | 8.3 | | 168147 |
| 19 | 1,397 | 75 | 10 | 0.5 | 8.6 | | 169544 |
| 20 | 0 | | | | | | |
| 21 | 0 | | | | | | |
| 22 | 4,416 | 45+160 | 30 | 0.7 | 7.6 | | 173960 |
| 23 | 1,448 | 192 | 13 | 0.46 | 7.5 | | 175408 |
| 24 | 1,455 | 180 | 12 | 1 | 7.6 | | 176863 |
| 25 | 1,438 | 170 | 10 | 0.6 | 7.9 | | 178301 |
| 26 | 0 | | | | | | |
| 27 | 0 | | | | | | |
| 28 | 4,367 | 150 | 20 | 0.77 | 8.4 | | 182668 |
| 29 | 1,439 | 141 | 9 | 0.62 | 8.7 | | 184107 |
| 30 | 0 | | | | | | |
| 31 | 0 | | | | | | |
| TOT | 42,320 | | 259 | | | | |
| AVG | 1459.31 | | 8.93 | No Days. | 29 | | |

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? NO

If yes, check reason(s) below.

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

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

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

Reported by J. P. Ross

Date 3-1-00

Title WATER SYSTEMS SUPERVISOR

Cert. # 056250

2/29/00
Pump Data

MONTHLY GALLONAGE REPORT
Feb2000

| Date | Well 4 | Well 6 | Well 7 | Well10 | Well11 | Well12 | Daily Total |
|----------------------------|---------|--------|------------|--------|------------|--------|---------------|
| 1 | 0 | 0 | 0 | 0 | 0 | 1,467 | 1,467 |
| 2 | 0 | 0 | 0 | 0 | 300 | 1,468 | 1,768 |
| 3 | 0 | 0 | 0 | 11 | 25 | 1,509 | 1,545 |
| 4 | 0 | 0 | 0 | 0 | 270 | 1,510 | 1,780 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 427 | 4,441 | 4,868 |
| 8 | 0 | 0 | 0 | 7 | 230 | 1,480 | 1,717 |
| 9 | 0 | 0 | 70 | 220 | 178 | 1,503 | 1,971 |
| 10 | 0 | 0 | 0 | 0 | 141 | 1,437 | 1,578 |
| 11 | 0 | 0 | 0 | 0 | 399 | 1,446 | 1,845 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 722 | 4,292 | 5,014 |
| 15 | 0 | 0 | 0 | 0 | 146 | 1,450 | 1,596 |
| 16 | 0 | 0 | 0 | 0 | 315 | 1,463 | 1,778 |
| 17 | 0 | 0 | 0 | 0 | 232 | 1,578 | 1,810 |
| 18 | 0 | 0 | 0 | 0 | 233 | 1,316 | 1,549 |
| 19 | 0 | 0 | 0 | 0 | 193 | 1,397 | 1,590 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 510 | 4,416 | 4,926 |
| 23 | 0 | 0 | 0 | 35 | 191 | 1,448 | 1,674 |
| 24 | 0 | 0 | 0 | 0 | 239 | 1,455 | 1,694 |
| 25 | 0 | 0 | 0 | 0 | 341 | 1,438 | 1,779 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 463 | 0 | 191 | 4,367 | 5,021 |
| 29 | 0 | 0 | 399 | 0 | 197 | 1,439 | 2,035 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 932 | 273 | 5,480 | 42,320 | 49,005 |
| | | | Totalizer | | | | Total(x1,000) |
| | | | This Month | | Last Month | | Gallons |
| | Well 4 | | 1,324,720 | | 1,324,720 | | 0 |
| | Well 6 | | 6,202 | | 6,202 | | 0 |
| | Well 7 | | 8,196 | | 7,264 | | 932 |
| | Well 10 | | 763,497 | | 763,224 | | 273 |
| | Well 11 | | 274,779 | | 269,299 | | 5,480 |
| | Well 12 | | 184,107 | | 141,787 | | 42,320 |
| AGS Water Supply Meter | | | 80,169 | | 70,607 | | 9562.00 |
| Medical Reactor - Well 105 | | | 7,965,250 | | 4,539,040 | | 3426.21 |
| Biology Building - Well 9 | | | 5,505,450 | | 5,492,700 | | 12.75 |

HLM LABS, INC.

575 Broad Hollow Road, Melville, NY 11747-5076
 (631)694-3040 . FAX:(631)420-8436 NYSDOH ID# 10478

BROOKHAVEN NATIONAL LAB.-BNLM
 70 BELL AVE.
 UPTON, NY 11973
 Federal ID : 5111891

Received : 03-FEB-2000 15:25
 Collected By : RL99
 Sample Type : Potable Water

Copies To : SCHID

| Lab Number | Collected | Location | Units Method Limits | I.COLL.BACT. | E.COLL. | CHLORINE RESIDUAL |
|---|----------------------|--------------------|---------------------------|-------------------------------|--|---|
| 20000203-097 ROUTINE DISTRIBUTION | 03-FEB-2000 06:45 | B-48 WATER TOWER | NONE SM#9223 ABSENT | NEGATIVE 04-FEB-2000 10:00 | NONE SM#9223 ABSENT ABSENT 04-FEB-2000 10:00 | mg/L SM#4500-C1G N/A 0.45 03-FEB-2000 |
| 20000203-098 ROUTINE DISTRIBUTION | 03-FEB-2000 06:10 | B-640 WATER TOWER | | NEGATIVE 04-FEB-2000 10:00 | ABSENT 04-FEB-2000 10:00 | 0.59 03-FEB-2000 |
| 20000203-099 ROUTINE DISTRIBUTION | 03-FEB-2000 07:25 | B-1005 RHC | | NEGATIVE 04-FEB-2000 10:00 | ABSENT 04-FEB-2000 10:00 | 0.64 03-FEB-2000 |
| 20000203-100 ROUTINE DISTRIBUTION | 03-FEB-2000 07:10 | B-363 APT. LAUNDRY | | NEGATIVE 04-FEB-2000 10:00 | ABSENT 04-FEB-2000 10:00 | 0.38 03-FEB-2000 |
| 20000203-101 ROUTINE DISTRIBUTION | 03-FEB-2000 07:35 | B-725 NSLS | | NEGATIVE 04-FEB-2000 10:00 | ABSENT 04-FEB-2000 10:00 | 0.80 03-FEB-2000 |
| 20000203-102 ROUTINE DISTRIBUTION | 03-FEB-2000 07:55 | B-490 BLOCK 1 ACF | | NEGATIVE 04-FEB-2000 10:00 | ABSENT 04-FEB-2000 10:00 | 0.55 03-FEB-2000 |
| 20000203-103 ROUTINE DISTRIBUTION | 03-FEB-2000 07:45 | B-490 BLOCK 4 MRC | | NEGATIVE 04-FEB-2000 10:00 | ABSENT 04-FEB-2000 10:00 | 0.54 03-FEB-2000 |

Date Issued : 02/08/2000

ORIGINAL
 Report for client information only

Joann M. Slavin
 Laboratory Director