

A110000

Environmental Services Division

Building 120
P.O. Box 5000
Upton, NY 11973-5000
Phone 631 344-8370
Fax 631 344-6079
cunniff@bnl.gov

BROOKHAVEN
NATIONAL LABORATORY

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

www.bnl.gov

January 7, 2002

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 2001

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2001 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 December 2001.
- Attachment II: December 2001 Biweekly Water Quality Monitoring Data for the BNL Potable Water Wells and BNL Distribution System.

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.

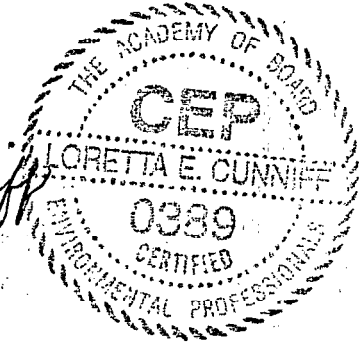
January 7, 2001

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,

Lori Cunniff

Lori Cunniff, CEP
Division Manager



LC/MA:rt

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.02

ATTACHMENT I

**Brookhaven National Laboratory
Potable Water Supply**

**Monthly Bacteriological and Operational
Reports for December 2001**

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: DECEMBER 2001
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LOCATION: Water Treatment Facility

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

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 12502807
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl ₂ Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl ₂ use per 24hrs				
1	0						
2	0						
3	0	200	0	0.65	6.4	12502807	
4	17	200	0	0.6	6.7	12502824	
5	5	200	0	0.6	7.3	12502829	
6	0	200	0	0.62	7.5	12502829	
7	0	200	0	0.68	8	12502829	
8	0						
9	0						
10	16	200	0	0.82	6.8	12502845	
11	10	200	0	0.82	6.4	12502855	
12	56	200	0	0.39	7.14	12502911	
13	0	200	0	0.76	6.4	12502911	
14	0	200	0	0.43	6.5	12502911	
15	0						
16	0						
17	0	200	0	0.66	6.5	12502911	
18	0	200	0	0.88	6.4	12502911	
19	0	200	0	0.8	6.5	12502911	
20	0	200	0	0.85	6.4	12502911	
21	0	200	0	0.97	6.6	12502911	
22	0						
23	0						
24	0	200	0	0.74	7.5	12502911	
25	0						
26	0	200	0	0.54	8	12502911	
27	14	200	0	0.63	7.9	12502925	
28	41	200	0	0.54	7.9	12502966	
29	0						
30	0						
31	0	200	0	0.85	7.6	12502966	
TOT	159		0				
AVG.	5.13		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 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: LC POW

Date: 1-4-02

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 2001
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LOCATION: **WELL NO. 4**

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

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite		Free Cl2 Residual	Lime		
		K Gals	Gallons		Cl2 use per 24hrs	mg/l	
1	0						1479844
2	0						
3	0	130	0	NR	NR		1479844
4	0	130	0	NR	NR		1479844
5	0	130	0	NR	NR		1479844
6	0	130	0	NR	NR		1479844
7	0	130	0	NR	NR		1479844
8	0						
9	0						
10	0	130	0	NR	NR		1479844
11	0	130	0	NR	NR		1479844
12	0	130	0	NR	NR		1479844
13	0	130	0	NR	NR		1479844
14	0	130	0	NR	NR		1479844
15	0						
16	0						
17	0	130	0	NR	NR		1479844
18	0	130	0	NR	NR		1479844
19	0	130	0	NR	NR		1479844
20	0	130	0	NR	NR		1479844
21	0	130	0	NR	NR		1479844
22	0						
23	0						
24	0	130	0	NR	NR		1479844
25	0						
26	0	130	0	NR	NR		1479844
27	0	130	0	NR	NR		1479844
28	0	130	0	NR	NR		1479844
29	0						
30	0						
31	0	130	0	NR	NR		1479844
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&R violation exist? YES NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES NO

If yes, check reason(s) below.

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

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

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

Reported by: *J. Brown*

Date: 1-4-02

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 2001
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LOCATION: WELL NO. 6

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	Totalizer	
		Gallons	Cl ₂ use per 24hrs				
1	0						
2	0						
3	0	200	0	NR	NR	273648	
4	0	200	0	NR	NR	273648	
5	0	200	0	NR	NR	273648	
6	0	200	0	NR	NR	273648	
7	0	200	0	NR	NR	273648	
8	0						
9	0						
10	0	200	0	NR	NR	273648	
11	0	200	0	NR	NR	273648	
12	0	200	0	NR	NR	273648	
13	0	200	0	NR	NR	273648	
14	0	200	0	NR	NR	273648	
15	0						
16	0						
17	0	200	0	NR	NR	273648	
18	0	200	0	NR	NR	273648	
19	0	200	0	NR	NR	273648	
20	0	200	0	NR	NR	273648	
21	0	200	0	NR	NR	273648	
22	0						
23	0						
24	0	200	0	NR	NR	273648	
25	0						
26	0	200	0	NR	NR	273648	
27	0	200	0	NR	NR	273648	
28	0	200	0	NR	NR	273648	
29	0						
30	0						
31	0	200	0	NR	NR	273648	
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: JR. Poon

Date: 1-4-02

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 2001
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LOCATION: WELL NO. 7

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

Source: Ground Water Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer 689547
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl2 use per 24hrs		---	---	
1	0						
2	0						
3	0	198	0	NR	NR	689547	
4	0	198	0	NR	NR	689547	
5	0	198	0	NR	NR	689547	
6	0	198	0	NR	NR	689547	
7	0	198	0	NR	NR	689547	
8	0						
9	0						
10	0	198	0	NR	NR	689547	
11	0	198	0	NR	NR	689547	
12	0	198	0	NR	NR	689547	
13	0	198	0	NR	NR	689547	
14	0	198	0	NR	NR	689547	
15	0						
16	0						
17	0	200	0	NR	NR	689547	
18	0	200	0	NR	NR	689547	
19	0	200	0	NR	NR	689547	
20	0	200	0	NR	NR	689547	
21	0	200	0	NR	NR	689547	
22	0						
23	0						
24	0	200	0	NR	NR	689547	
25	0						
26	0	200	0	NR	NR	689547	
27	0	200	0	NR	NR	689547	
28	0	200	0	NR	NR	689547	
29	0						
30	0						
31	0	200	0	NR	NR	689547	
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&R 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 *JC Ross*

Date: 1-4-02

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 2001

LOCATION: WELL NO. 10

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

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite		Free Cl ₂ Residual	Lime Sodium Hydroxide	764322	
	K Gals	Gallons	Cl ₂ use per 24hrs	mg/l			
1	0						
2	0						
3	0	58	0	NR	NR	764322	
4	4	58	0	NR	NR	764326	
5	0	58	0	NR	NR	764326	
6	0	58	0	NR	NR	764326	
7	0	58	0	NR	NR	764326	
8	0						
9	0						
10	0	58	0	NR	NR	764326	
11	0	58	0	NR	NR	764326	
12	0	58	0	NR	NR	764326	
13	0	58	0	NR	NR	764326	
14	0	58	0	NR	NR	764326	
15	0						
16	0						
17	0	58	0	NR	NR	764326	
18	0	58	0	NR	NR	764326	
19	0	58	0	NR	NR	764326	
20	0	58	0	NR	NR	764326	
21	0	58	0	NR	NR	764326	
22	0						
23	0						
24	0	58	0	NR	NR	764326	
25	0						
26	0	58	0	NR	NR	764326	
27	0	58	0	NR	NR	764326	
28	0	58	0	NR	NR	764326	
29	0						
30	0						
31	0	58	0	NR	NR	764326	
TOT	4		0				
AVG.	0.13		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: *SO [Signature]*

Date: 1-4-02

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 2001
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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

Day of month	CHLORINATION			pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite		Free Cl ₂ Residual	Lime Sodium Hydroxide	
	K Gals	Gallons	Cl ₂ use per 24hrs	mg/l		
1	0					
2	0					
3	1,159	170	6	NR	NR	376067
4	324	168	2	0.6	7.4	376391
5	295	162	6	0.76	7.5	376686
6	622	155+20	7	1.35	7.5	377308
7	604	175	0	0.6	9	377912
8	0					
9	0					
10	831	170	0	NR	NR	378743
11	637	162	8	NR	NR	379380
12	423	158	4	0.8	6.5	379803
13	849	152	6	0.79	6.5	380652
14	310	150	2	0.76	6.5	380962
15	0					
16	0					
17	1,084	140	10	0.74	5.9	382046
18	609	135	5	0.68	6	382655
19	477	130	5	0.71	0.6	383132
20	425	128	2	0.62	0.6	383557
21	235	127	1	6.3	6	383792
22	0					
23	0					
24	400	122	5	0.64	6.8	384192
25	0					
26	234	122	0	0.66	NR	384426
27	292	122	0	0.65	7.9	384718
28	0	122+70	0	NR	NR	384718
29	0					
30	0					
31	761	185	7	0.67	8.1	385479
TOT	10,571		76			
AVG.	341.00		2.45	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 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: *S. O. Hall*

Date 1-4-02

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

2001

LOCATION: WELL NO: 12

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

Source: Ground Water

Does the system have a chlorination waiver? YES NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite		Free Cl ₂ Residual	Lime Sodium	Totalizer	
	K Gals	Gallons	Cl ₂ use per 24hrs	mg/l	Hydroxide		
1	0						
2	0						
3	4,326	88	27	0.8	6.5	392777	
4	1,442	79	9	0.73	7.2	394219	
5	1,462	70	9	0.65	8	395681	
6	1,430	60+140	10	0.71	7.8	397111	
7	1,417	195	5	0.8	9.4	398528	
8	0						
9	0						
10	4,361	170	25	0.75	7.1	402889	
11	1,448	155	15	0.82	6.7	404337	
12	1,437	150	5	0.75	6.5	405774	
13	1,495	143	7	0.82	6.5	407269	
14	1,395	132	11	0.76	6.5	408664	
15	0						
16	0						
17	4,314	105	27	0.85	6	412978	
18	1,393	100	5	0.81	6	414371	
19	1,429	90	10	0.8	6.5	415800	
20	1,489	80+100	10	0.85	6.4	417289	
21	1,450	175	5	0.78	6	418739	
22	0						
23	0						
24	4,323	150	25	0.73	8.5	423062	
25	0						
26	2,908	132	18	0.82	8.6	425970	
27	1,405	122	10	0.83	8.6	427375	
28	1,437	115+88	7	0.54	7.9	428812	
29	0						
30	0						
31	4,322	180	23	0.81	8.1	433134	
TOT	44,683		263				
AVG.	1441.39		8.48	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: JA Ross

Date: 12-4-01

Title: Water Systems Supervisor

Certification No. NY0031941

12/31/01
Pump Data

MONTHLY GALLONAGE REPORT
2001DECEMBER

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	1,159	4,326	5,485
4	0	0	0	4	324	1,442	1,770
5	0	0	0	0	295	1,462	1,757
6	0	0	0	0	622	1,430	2,052
7	0	0	0	0	604	1,417	2,021
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	0	0	831	4,361	5,192
11	0	0	0	0	637	1,448	2,085
12	0	0	0	0	423	1,437	1,860
13	0	0	0	0	849	1,495	2,344
14	0	0	0	0	310	1,395	1,705
15	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0
17	0	0	0	0	1,084	4,314	5,398
18	0	0	0	0	609	1,393	2,002
19	0	0	0	0	477	1,429	1,906
20	0	0	0	0	425	1,489	1,914
21	0	0	0	0	235	1,450	1,685
22	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0
24	0	0	0	0	400	4,323	4,723
25	0	0	0	0	0	0	0
26	0	0	0	0	234	2,908	3,142
27	0	0	0	0	292	1,405	1,697
28	0	0	0	0	0	1,437	1,437
29	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
31	0	0	0	0	761	4,322	5,083
Total	0	0	0	4	10,571	44,683	55,258
		Totalizer		Totalizer		Total(x1,000)	
		This Month		Last Month		Gallons	
	Well 4	1,479,844		1,479,844		0	
	Well 6	273,648		273,648		0	
	Well 7	689,547		689,547		0	
	Well 10	764,326		764,322		4	
	Well 11	385,479		374,908		10,571	
	Well 12	433,134		388,451		44,683	
AGS Water Supply Meter		336,991		324,415			12576.00
Medical Reactor - Well 105		9,171,093		9,171,093			0.00

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. : 0112160-001A

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

Federal ID : 5111891
Collected : 12/6/01 9:00:00 AM
Received : 12/6/01 3:08:00 PM
Collected By : SB99
Copies To : BOB LEE

Client ID. : 11396-001

Point No : 1
Location : B-49 WATER TOWER

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	12/6/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	12/6/01 4:15:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	12/6/01

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12/11/2001 14:47 16314208436

H2M LABS, INC.

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

LABORATORY RESULTS

Lab No. : 0112160-002A

Sample Information...

Type : Potable Water

Origin : Dist.

Routine

BROOKHAVEN NATIONAL LAB.-BNLM

70 BELL AVE.

UPTON, NY 11973

Attn To : TONY ROSS

Client ID. : 11396-002

Federal ID 5111891

Collected : 12/6/01 9:20:00 AM

Point No : 2

Received : 12/6/01 3:08:00 PM

Location : B-640 WATER TOWER

Collected By : SB99

Copies To : BOB LEE

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	12/6/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	12/6/01 4:15:00 PM
Total Residual Chlorine	0.7	mg/L		M4500-Cl G	12/6/01

Joann M. Alavin

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. : 0112160-003A

Sample Information...

Type : Potable Water

Origin : Dist.

Routine

Federal ID 5111891

Client ID.: 11398-003

Collected : 12/6/01 9:45:00 AM

Point No : 3

Received : 12/6/01 3:08:00 PM

Location : B-1005 RHIC

Collected By : SB99

Copies To : BOB LEE

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	12/6/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	12/6/01 4:15:00 PM
Total Residual Chlorine	1.3	mg/L		M4500-Cl G	12/6/01

Joann M. Slavin

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. : 0112160-004A

Sample Information...

Type : Potable Water

Origin : Dist.

Routine

Federal ID 5111891

Client ID. : 11396-004

Collected : 12/8/01 10:20:00 AM

Point No : 4

Received : 12/6/01 3:08:00 PM

Location : B-363 APT.LAUNDRY

Collected By : SB99

Copies To : BOB LEE

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	12/6/01 4:15:00 PM
E Coliform	Absent		Absent	M9223	12/6/01 4:15:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	12/6/01

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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. : 0112160-005A

Sample Information...

Type : Potable Water

Origin : Dist.

Routine

Federal ID 5111891

Client ID. : 11396-005

Collected : 12/6/01 10:00:00 AM

Point No : 23

Received : 12/6/01 3:08:00 PM

Location : B-725 NSLS

Collected By : SB99

Copies To : BOB LEE

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	12/6/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	12/6/01 4:15:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	12/6/01

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

Date Reported:

Joann M. Slavin

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.-SNLM
70 BELL AVE.

UPTON, NY 11973

Attn To : TONY ROSS

Lab No. : 0112160-006A

Sample Information...

Type : Potable Water

Origin : Dist.

Routine

Federal ID 5111891

Client ID. : 11396-006

Collected : 12/6/01 8:50:00 AM

Point No : 24

Received : 12/6/01 3:08:00 PM

Location : B-490 BLOCK 1 AFC

Collected By : SB99

Copies To : BOB LEE

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	12/6/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	12/6/01 4:15:00 PM
Total Residual Chlorine	0.5	mg/L		M4500-Cl G	12/6/01

Anthony M. Brown

12/11/2001 14:47 16314208436

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PAGE 08

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. : 0112160-007A

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

Federal ID 5111891

Client ID. : 11396-007

Collected : 12/6/01 8:40:00 AM

Point No : 25

Received : 12/6/01 3:08:00 PM

Location : B-490 BLOCK 4 MRC

Collected By : SB99

Copies To : BOB LEE

<u>Parameter(s)</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		Negative	M9223	12/6/01 4:15:00 PM
E_Coliform	Absent		Absent	M9223	12/6/01 4:15:00 PM
Total Residual Chlorine	0.8	mg/L		M4500-Cl G	12/6/01

ATTACHMENT II

**Brookhaven National Laboratory
Potable Water Supply**

**December 2001 Biweekly Water Quality Monitoring Data for
the BNL Potable Water Wells and
the BNL Distribution System**

Attachment II
Table 1
Summary of Water Quality Analyses
for the BNL Potable Water System
December 2001

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
Well 11	12/4/01	7.4	55	181	NR	NR
Well 11	12/6/01	7.5	55	201	NR	NR
Well 11	12/11/01	NR	NR	NR	NR	NR
Well 11	12/13/01	NR	NR	NR	NR	NR
Well 11	12/18/01	6.0	55	176	NR	NR
Well 11	12/20/01	6.0	55	128	NR	NR
Well 11	12/27/01	7.9	56	200	NR	NR
Well 12	12/4/01	7.3	55	192	NR	NR
Well 12	12/6/01	7.8	55	189	NR	NR
Well 12	12/11/01	6.7	55	188	NR	NR
Well 12	12/13/01	6.5	55	187	NR	NR
Well 12	12/18/01	6.0	56	124	NR	NR
Well 12	12/20/01	6.0	56	114	NR	NR
Well 12	12/27/01	8.6	56	186	NR	NR

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.