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for the U.S. Department of Energy

July 7, 2005

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

Dear Ms. Kathleen Newcomer:

**Subject: Monthly Water Treatment Plant Reports**  
**Reference: Suffolk County Minimum Monitoring Requirements for June 2005**

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2005 SCDHS Minimum Monitoring Requirements for the BNL Potable Water Supply, included please find the following attachments for your records:

- Attachment I: BNL Potable Water Monthly Operational Data for June.
- Attachment II: June 2005 Biweekly Water Quality Monitoring Data for the BNL Distribution System and Potable Water Wells.
- Attachment III: June 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data and Bacteriological Analyses for the BNL Distribution System.

Collection and analysis of these samples is performed in accordance with the guidelines of the BNL Quality Assurance program, the SCDHS Community Water Supply Monitoring Requirements, and the BNL Potable Water System Sampling Plan. Plant Engineering Division personnel using standard operating procedures collect routine monitoring samples; a contractor laboratory using standard methods of analysis performs the subsequent analyses. The Quality Assurance documentation is available from the Environmental and Waste Management Services Division and Plant Engineering Divisions. Based on this information, we believe the values contained in these reports are representative of the BNL potable water system.



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Registrar Accreditation Board

to Newcomer

Should there be any questions regarding this report or the analytical or operational data contained herein, please call either M. Allocco at (631) 344-3166, J. Higbie at (631) 344-5919, R. Lee at (631) 344-3148, or W. Chaloupka at (631) 344-7136.

Sincerely,



George A. Goode  
Environmental & Waste Management Services  
Division Manager

GAG/JB:car

Attachments: As noted

M. Allocco  
L. Ambroszkiewicz, SCDHS  
W. Chaloupka  
J. Granzen  
G. Goode  
R. Lee  
E. Murphy  
P. Ponturo, SCDHS  
L. Ross  
J. Tarpinian

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File: EC61ER.05

**ATTACHMENT I**

**Brookhaven National Laboratory**

**Potable Water Supply**

**Monthly Operational Data for June 2005  
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: JUNE

2005

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
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl <sub>2</sub> Residual mg/l	Lime	Sodium Hydroxide	
		Gallons	Cl <sub>2</sub> use per 24hrs		Sodium		
1	731	135	5	0.55	7.7	68579	
2	801	130	5	1.22	7.7	69380	
3	722	120	10	0.66	7.7	70102	
4	0						
5	0						
6	2,706	100	20	1.20	7.7	72808	
7	1,053	85	15	0.86	7.8	73861	
8	999	78	7	1.47	7.7	74860	
9	1,025	65	13	0.60	7.7	75885	
10	1,125	55+55=110	10	0.66	7.7	77010	
11	0						
12	0						
13	3,221	80+110	20	1.00	7.5	80231	
14	1,264	170	30	0.95	7.7	81495	
15	321	162	8	0.93	7.4	81816	
16	83	120	42	0.53	7.7	81899	
17	867	110	10	0.67	7.6	82766	
18	0						
19	0						
20	2,458	70	40	1.20	7.6	85224	
21	807	54	16	0.80	7.9	86031	
22	823	35	19	1.10	7.6	86854	
23	885	190	10	0.53	7.7	87739	
24	825	180	10	1.26	7.7	88564	
25	0						
26	0						
27	2,513	153	27	0.97	7.7	91077	
28	915	142	11	0.73	7.7	91992	
29	1,359	129	13	0.70	7.7	93351	
30	1,150	117	12	1.20	7.6	94501	
31	0						
TOT	26,653		353				
AVG.	888.43		11.77	No. Days:	30		

Population Served **3,500**

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

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

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

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

Reported by: *[Signature]*

Date: 7-1-05

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: JUNE 2005
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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 1648622
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide		
		Gallons	Cl2 use per 24hrs				
1	0	0	0	NR	NR	1648622	
2	0	0	0	NR	NR	1648622	
3	0	0	0	NR	NR	1648622	
4	0						
5	0						
6	0	0	0	NR	NR	1648622	
7	0	0	0	NR	NR	1648622	
8	0	0	0	NR	NR	1648622	
9	0	0	0	NR	NR	1648622	
10	0	0	0	NR	NR	1648622	
11	0						
12	0						
13	0	0	0	NR	NR	1648622	
14	0	0	0	NR	NR	1648622	
15	0	0	0	NR	NR	1648622	
16	0	0	0	NR	NR	1648622	
17	0	0	0	NR	NR	1648622	
18	0						
19	0						
20	0	0	0	NR	NR	1648622	
21	0	0	0	NR	NR	1648622	
22	0	0	0	NR	NR	1648622	
23	0	0	0	NR	NR	1648622	
24	0	0	0	NR	NR	1648622	
25	0						
26	0						
27	0	0	0	NR	NR	1648622	
28	0	0	0	NR	NR	1648622	
29	0	0	0	NR	NR	1648622	
30	0	0	0	NR	NR	1648622	
31	0						
TOT	0		0				
AVG.	0.00		0.00	No. Days:	30		

Population Served **3,500**

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

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

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

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

Reported by: J. A. [Signature]

Date: 7-1-05

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: JUNE 2005
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LOCATION: WELL NO. 6

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

Source: Ground Water

Does the system have a chlorination waiver? YES  NO

Day of month	CHLORINATION				pH		Totalizer Daily Totalizer
	Treated Water	Liquid Sodium Hypochlorite		Free Cl2 Residual	Lime	Sodium Hydroxide	
		K Gals	Gallons		Cl2 use per 24hrs		
1	121	125	1	0.12	6.1	549875	
2	123	120	5	0.10	6	549998	
3	155	120	0	0.08	6.1	550153	
4	0						
5	0						
6	547	112	8	0.00	6.1	550700	
7	181	112	0	0.30	6.1	550881	
8	241	112	0	0.08	6.2	551122	
9	204	111	1	0.03	6.1	551326	
10	308	108+42=150	3	0.03	6.2	551634	
11	0						
12	0						
13	775	150	0	0.03	6.1	552409	
14	517	129	21	0.04	6.1	552926	
15	228	117+33	12	NR	NR	553154	
16	127	144	6	NR	NR	553281	
17	136	132	12	0.01	6	553417	
18	0						
19	0						
20	188	126	6	0.00	6.1	553605	
21	121	120	6	0.02	6.1	553726	
22	81	117	3	0.18	6.1	553807	
23	14	117	0	0.06	6.1	553821	
24	82	117	0	0.19	6.1	553903	
25	0						
26	0						
27	519	93	24	0.37	6.1	554422	
28	187	81	12	0.20	6.1	554609	
29	322	69	12	0.20	6.1	554931	
30	260	57	12	0.20	6.1	555191	
31	0						
TOT	5,437		144				
AVG.	181.23		4.80	No. Days:	30		

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

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

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

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

Reported by: *SQ Perry*

Date: 7-1-05

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: JUNE 2005
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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
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl2 use per 24hrs				
1	744	90	9	0.12	6.1	1690081	
2	839	75	15	0.10	6	1690920	
3	750	65+85	10	0.08	6.1	1691670	
4	0						
5	0						
6	2,471	120	30	0.00	6.1	1694141	
7	946	105	15	0.30	6.1	1695087	
8	878	90	15	0.08	6.2	1695965	
9	894	84	6	0.03	6.1	1696859	
10	931	69+81=150	15	0.03	6.2	1697790	
11	0						
12	0						
13	2,952	105	45	0.03	6.1	1700742	
14	824	90	15	0.04	6.1	1701566	
15	175	87+63	3	NR	NR	1701741	
16	16	150	0	NR	NR	1701757	
17	931	132	18	0.01	6	1702688	
18	0						
19	0						
20	2,513	96	36	0.00	6.1	1705201	
21	820	81	15	0.02	6.1	1706021	
22	835	69+81	12	0.02	6.1	1706856	
23	957	135	15	0.06	6.1	1707813	
24	801	126	7	0.19	6.1	1708614	
25	0						
26	0						
27	2,639	75	51	0.37	6.1	1711253	
28	835	60	15	0.20	6.1	1712088	
29	1,132	42+108	18	0.20	6.1	1713220	
30	1,076	138	12	0.20	6.1	1714296	
31	0						
TOT	24,959		377				
AVG.	831.97		12.57	No. Days:	30		

Population Served **3,500**

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

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

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

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

Reported by: *J. A. [Signature]*

Date: 7-1-05

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: JUNE 2005
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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 771139
	Treated Water K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime Sodium Hydroxide	Totalizer	
		Gallons	Cl2 use per 24hrs				
1	0	0	0	NR	NR	771139	
2	0	0	0	NR	NR	771139	
3	0	0	0	NR	NR	771139	
4	0						
5	0						
6	192	0	0	NR	NR	771331	
7	0	0	0	NR	NR	771331	
8	0	0	0	NR	NR	771331	
9	0	0	0	NR	NR	771331	
10	0	0	0	NR	NR	771331	
11	0						
12	0						
13	0	0	0	NR	NR	771331	
14	0	0	0	NR	NR	771331	
15	0	0	0	NR	NR	771331	
16	0	0	0	NR	NR	771331	
17	0	0	0	NR	NR	771331	
18	0						
19	0						
20	0	0	0	NR	NR	771331	
21	0	0	0	NR	NR	771331	
22	0	0	0	NR	NR	771331	
23	0	0	0	NR	NR	771331	
24	0	0	0	NR	NR	771331	
25	0						
26	0						
27	0	0	0	NR	NR	771331	
28	0	0	0	NR	NR	771331	
29	0	0	0	NR	NR	771331	
30	0	0	0	NR	NR	771331	
31	0						
TOT	192		0				
AVG.	6.40		0.00	No. Days:	30		

Population Served **3,500**

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

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

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

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

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

Reported by: J. D. King

Date: 7-1-05

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: JUNE 2005
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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 K. Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime	Sodium Hydroxide	
		Gallons	Cl2 use per 24hrs		Sodium		
1	669	80	13	1.20	7.3		642962
2	732	63	17	NR	NR		644363
3	662	54+91	9	NR	NR		645025
4	0						
5	0						
6	2,511	87	58	0.87	6.7		647536
7	970	73	14	0.83	NR		648506
8	909	60	13	0.50	NR		649415
9	227	57	3	NR	NR		649642
10	0	57	0	NR	NR		649642
11	0						
12	0						
13	0	57	0	NR	NR		649642
14	64	54	3	NR	NR		649706
15	864	45+60	10	NR	NR		650570
16	279	100	5	NR	NR		650849
17	0	100	0	NR	NR		650849
18	0						
19	0						
20	0	100	0	NR	NR		650849
21	641	90	10	NR	NR		651490
22	758	78+72	12	NR	NR		652248
23	809	138	12	0.95	6.3		653057
24	751	126	12	0.73	6.7		653808
25	0						
26	0						
27	2,302	90	36	NR	NR		656110
28	837	78	12	0.20	6.2		656947
29	1,230	60+75	18	0.82	6.2		658177
30	1,030	126	9	0.70	6.2		659207
31	0						
TOT	16,245		266				
AVG.	541.50		8.87	No. Days:	30		

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.

Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.

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

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

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

Reported by: J.A. Harris

Date: 7-1-05

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: JUNE 2005
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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 K Gals	Liquid Sodium Hypochlorite		Free Cl2 Residual mg/l	Lime	Sodium Hydroxide	
		Gallons	Cl2 use per 24hrs		Sodium		
1	0	69	0	NR	NR	737155	
2	0	69	0	NR	NR	737155	
3	0	69	0	NR	NR	737155	
4	0						
5	0						
6	29	69	0	NR	NR	737184	
7	0	69	0	0.40	6.5	737184	
8	3	69	0	NR	NR	737187	
9	774	57	12	0.20	7.5	737961	
10	1,125	36+89=125	21	NR	NR	739086	
11	0						
12	0						
13	3,225	78	47	1.00	8.3	742311	
14	1,359	57	21	1.00	7.9	743670	
15	1,443	33+117	24	0.90	7.9	745113	
16	1,492	129	21	0.90	8	746605	
17	890	117	12	NR	NR	747495	
18	0						
19	0						
20	2,405	87	20	NR	NR	749900	
21	89	84	3	NR	NR	749989	
22	0	84	0	NR	NR	749989	
23	0	84	0	NR	NR	749989	
24	0	84	0	NR	NR	749989	
25	0						
26	0						
27	0	84	0	NR	NR	749989	
28	0	84	0	NR	NR	749989	
29	0	84	0	NR	NR	749989	
30	0	84	0	NR	NR	749989	
31	0						
TOT	12,834		181				
AVG.	427.80		6.03	No. Days:	30		

Population Served 3,500

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

Number of actual routine samples 7

Does a M&AR violation exist? YES  NO

If yes, check reason's below.  
 Actual number of samples fewer than required.

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

Failure to analyze repeat samples.

Does an MCL violation exist? YES  NO

If yes, check reason(s) below.  
 Two or more positive total coliform samples for systems collecting 40 or more samples (routine, repeat or hiturb) per month.

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

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

Reported by: Jill Kelly

Date: 7-1-05

Title: Water Systems Supervisor

Certification No. NY0031941

6/30/2005  
 Pump Data

MONTHLY GALLONAGE REPORT  
 JUNE2005.XLS

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	0	121	744	0	669	0	1,534
2	0	123	839	0	732	0	1,694
3	0	155	750	0	662	0	1,567
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	547	2,471	192	2,511	29	5,750
7	0	181	946	0	970	0	2,097
8	0	241	878	0	909	3	2,031
9	0	204	894	0	227	774	2,099
10	0	308	931	0	0	1,125	2,364
11	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0
13	0	775	2,952	0	0	3,225	6,952
14	0	517	824	0	64	1,359	2,764
15	0	228	175	0	864	1,443	2,710
16	0	127	16	0	279	1,492	1,914
17	0	136	931	0	0	890	1,957
18	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0
20	0	188	2,513	0	0	2,405	5,106
21	0	121	820	0	641	89	1,671
22	0	81	835	0	758	0	1,674
23	0	14	957	0	809	0	1,780
24	0	82	801	0	751	0	1,634
25	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0
27	0	519	2,639	0	2,302	0	5,460
28	0	187	835	0	837	0	1,859
29	0	322	1,132	0	1,230	0	2,684
30	0	260	1,076	0	1,030	0	2,366
31	0	0	0	0	0	0	0
Total	0	5,437	24,959	192	16,245	12,834	59,667
			Totalizer		Totalizer		Total(x1,000)
			This Month		Last Month		Gallons
	Well 4		1,648,622		1,648,622		0
	Well 6		555,191		549,754		5,437
	Well 7		1,714,296		1,689,337		24,959
	Well 10		771,331		771,139		192
	Well 11		659,207		642,962		16,245
	Well 12		749,989		737,155		12,834
AGS Water Supply Meter			550,047		538,011		12036.00
Medical Reactor - Well 105			0		0		0.00
Biology Building - Well 9			679,277		679,277		0.00

**ATTACHMENT II**

**Brookhaven National Laboratory**

**Potable Water Supply**

**June 2005 Biweekly Water Quality Monitoring Data**

**for the BNL Distribution System**

**and Potable Water Wells**

**Attachment II**  
**Table 1 - Summary of Water Quality Analyses**  
**for the BNL Potable Water System**  
**June 2005**

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity ( $\mu$ mhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	6/2/05	7.7	53	144	ANR	ANR
WTP	6/9/05	7.8	57	152	ANR	ANR
WTP	6/14/05	7.7	56	140	ANR	ANR
WTP	6/16/05	7.7	58	155	ANR	ANR
WTP	6/21/05	7.9	57	148	ANR	ANR
WTP	6/23/05	7.7	55	149	ANR	ANR
WTP	6/28/05	7.7	56	148	ANR	ANR
WTP	6/30/05	7.6	56	147	ANR	ANR
Well 11	6/21/05	6.4	54	134	ANR	ANR
Well 11	6/23/05	6.3	55	135	ANR	ANR
Well 11	6/28/05	6.2	55	143	ANR	ANR
Well 11	6/30/05	6.2	55	163	ANR	ANR
Well 12	6/9/05	6.5	56	151	ANR	ANR
Well 12	6/14/05	7.5	56	150	ANR	ANR
Well 12	6/16/05	8	56	215	ANR	ANR
Well 12	6/30/05	7.2	55	184	ANR	ANR

**ANR-** Analysis Not Required

**NR-** Not Reported

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

**ATTACHMENT III**

**Brookhaven National Laboratory**

**Potable Water Supply**

**June 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule**

**Monitoring Data and Bacteriological Analyses for the BNL Distribution System**

**Attachment III**

**June 2005 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data  
Table II - Maximum Residual Disinfectant Level (MRDL) Compliance**

Location	Total Residual Chlorine (mg/L)											
	July 04	Aug. 04	Sept. 04	Oct. 04	Nov. 04	Dec. 04	Jan. 05	Feb. 05	Mar. 05	Apr. 05	May 05	June 05
Bldg. 49 Water Tower	0.8	1.0	0.7	0.8	0.8	0.5	0.7	2.0	0.9	0.7	0.9	0.9
Bldg. 640 Water Tower	0.5	0.5	0.3	0.6	0.5	0.5	0.6	0.6	0.9	0.8	0.9	1.5
Bldg. 363 Apt. Laundry	0.6	0.5	0.6	0.5	0.5	0.4	0.6	0.7	0.9	0.7	0.7	0.7
Bldg. 1005 RHIC	0.6	0.5	0.5	0.5	0.5	0.4	0.5	0.6	1.1	0.7	1.0	1.2
Bldg. 930 LINAC	0.8	NS	0.9	NS	0.8	NS	0.6	NS	1.0	NS	0.8	NS
Bldg. 725 NSLS	NS	0.9	NS	0.7	NS	0.5	NS	0.7	NS	1	NS	1.3
Bldg. 490 Outpatient Clinic	0.8	NS	0.7	NS	0.7	NS	0.7	NS	0.5	NS	1.0	NS
Bldg. 490 Block 11	0.6	NS	0.3	NS	0.8	NS	0.6	NS	0.4	NS	0.3	NS
Bldg. 490 Block 1 ACF	NS	0.4	NS	0.8	NS	0.5	NS	0.5	NS	0.3	NS	0.6
Bldg. 490 Block 4 MRC	NS	0.9	NS	0.7	NS	0.5	NS	0.7	NS	0.8	NS	1.1
<b>Monthly Average</b>	0.7	0.7	0.6	0.7	0.7	0.5	0.6	0.8	0.8	0.7	0.8	1.0

NA - Not Applicable

NS- Not Scheduled for sampling

**Running Annual Average (mg/L) 0.7 (Total Residual Chlorine)**  
**MRDL (mg/L) 4.0**

**H2M LABS, INC.**

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

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Federal ID 5111891

Collected : 6/3/05 11:02:00 AM

Received : 6/3/05 3:00:00 PM

Collected By : CLIENT

Copy : Original

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**LABORATORY RESULTS**

Lab No. : 0506117-001A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Client ID. : 19608-001

Point No : 094-273

Location : B-49 Water Tower

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	0.9		1	mg/L		M4500-Cl G	06/03/2005

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

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

D.F. = Dilution Factor

Date Reported : 6/29/05



Laboratory Manager



**H2M LABS, INC.**

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

**LABORATORY RESULTS**

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

Lab No. : 0506117-002A

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

Federal ID 5111891

Client ID. : 19608-002

Collected : 6/3/05 9:00:00 AM

Point No : 076-408

Received : 6/3/05 3:00:00 PM

Location : B-640 Water Tower

Collected By : CLIENT

Copy : Original

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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.5		1	mg/L		M4500-Cl G	06/03/2005

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

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

D.F. = Dilution Factor

Date Reported : 6/29/05



**H2M LABS, INC.**

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

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

**LABORATORY RESULTS**

Lab No. : 0506117-003A

**Sample Information...**

Type : Potable Water  
 Origin : Distribution  
 Routine

Federal ID 5111891

Client ID. : 19608-003

Collected : 6/3/05 10:05:00 AM

Point No : 109-19

Received : 6/3/05 3:00:00 PM

Location : B-363 Apt.Laundry

Collected By : CLIENT

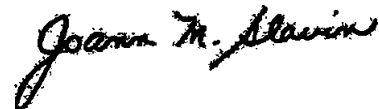
Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	0.7		1	mg/L		M4500-Cl G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s).  
 Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.  
 D.F. = Dilution Factor

Date Reported : 6/29/05



**H2M LABS, INC.**

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

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

**LABORATORY RESULTS**Lab No. : **0506117-004A****Sample Information...**

Type : Potable Water  
 Origin : Distribution  
 Routine

Federal ID 5111891

Client ID. : 19608-004

Collected : 6/3/05 9:20:00 AM

Point No : 045-12

Received : 6/3/05 3:00:00 PM

Location : B-1005 RHIC

Collected By : CLIENT

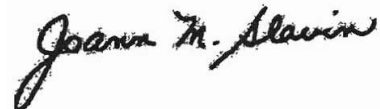
Copy : **Original**

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.2		1	mg/L		M4500-CI G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s).  
 Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted  
 D.F. = Dilution Factor

Date Reported : 6/29/05



**H2M LABS, INC.**

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

**Brookhaven National Lab.-BNLM**  
 70 Bell Ave.  
 Upton, NY 11973  
 Attn To : Marcia Allocco

**LABORATORY RESULTS**Lab No. : **0506117-005A****Sample Information...**

Type : Potable Water  
 Origin : Distribution  
 Routine

Federal ID 5111891

Client ID. : 19608-005

Collected : 6/3/05 10:45:00 AM

Point No : 075-602

Received : 6/3/05 3:00:00 PM

Location : B-725 NSLS

Collected By : CLIENT

Copy : Original

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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.3		1	mg/L		M4500-Cl G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s).  
 Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted  
 D.F. = Dilution Factor

Date Reported : 6/29/05



**H2M LABS, INC.**575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID#10478**Brookhaven National Lab.-BNLM**

70 Bell Ave.

Upton, NY 11973

Attn To : Marcia Allocco

Federal ID 5111891

Collected : 6/3/05 1:05:00 PM

Received : 6/3/05 3:00:00 PM

Collected By : CLIENT

Copy : Original

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**LABORATORY RESULTS**

Lab No. : 0506117-006A

Client ID. : 19608-006

Point No : 084-69

Location : B-490 Block 1 ACF

**Sample Information...**

Type : Potable Water

Origin : Distribution

Routine

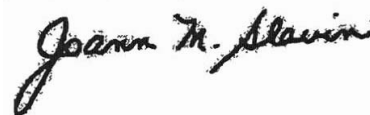
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	0.6		1	mg/L		M4500-CI G	06/03/2005

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

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

D.F. = Dilution Factor

Date Reported : 6/29/05



Laboratory Manager

**H2M LABS, INC.**575 Broad Hollow Road, Melville NY 11747  
(631) 694-3040 . FAX: (631) 420-8436 NYSDOH ID# 10478Brookhaven National Lab.-BNLM  
70 Bell Ave.  
Upton, NY 11973  
Attn To : Marcia Allocco**LABORATORY RESULTS**

Lab No. : 0506117-007A

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

Federal ID : 5111891

Client ID. : 19608-007

Collected : 6/3/05 1:00:00 PM

Point No : 084-68

Received : 6/3/05 3:00:00 PM

Location : B-490 Block 4 MRC

Collected By : CLIENT

Copy : Original

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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.1		1	mg/L		M4500-Cl G	06/03/2005

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

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

D.F. = Dilution Factor

Date Reported : 6/29/05



**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 : Marcia Allocco

Lab No. : 0506117-013A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Federal ID 5111891

Client ID. : 19608-014

Collected : 6/3/05 10:45:00 AM

Point No : 075-602

Received : 6/3/05 3:00:00 PM

Location : B-725 NSLS

Collected By : CLIENT

Copy : Original

CC

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1		Negative	M9223	06/04/2005 11:30 AM
E_Coliform	Absent		1		Absent	M9223	06/04/2005 11:30 AM
Total Residual Chlorine	1.3		1	mg/L		M4500-Cl G	06/03/2005

Result(s) reported meet(s) Regulatory Limit(s).  
 Result(s) flagged with \* Exceed Regulatory Limit(s). Limit noted.  
 D.F. = Dilution Factor

Date Reported : 6/29/05

