



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

July 10, 2007

Ms. Kathleen Newcomer  
Suffolk County Department of Health Services  
Office of Water Resources  
Bureau of Drinking Water  
Suite 1C  
360 Yaphank Avenue  
Yaphank, New York 11980

Dear Ms. Kathleen Newcomer:

**Subject: Monthly Water Treatment Plant Reports**  
**Reference: Suffolk County Minimum Monitoring Requirements for June 2007**

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2007 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 2007 Biweekly Water Quality Monitoring Data for the BNL Distribution System and Potable Water Wells.
- Attachment III: June 2007 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.



Registered to  
ISO 14001

July 10, 2007

Should there be any questions regarding this report or the analytical or operational data contained herein, please call either 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

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

File: EC61ER.07

**ATTACHMENT I**

**Brookhaven National Laboratory**

**Potable Water Supply**

**Monthly Operational Data for June 2007**

**for the BNL Potable Water System**



Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	6/07	6/29/2007	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Ground <input type="checkbox"/> GWUDI
Public Water System ID	County	Town, Village, or City	<input type="checkbox"/> Purchase with subsequent chlorination
5111891	Suffolk	Upton, New York 11973	<input type="checkbox"/> Purchase w/out subsequent chlorination

DATE	Source(s) in Use Well(s) No.:	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings			Daily Totalizer
			Gaseous		Liquid	Free chlorine residual at entry point (mg/l) (WTF-624)	Hypochlorite used/day (WTF - 624)	pH Lime Softening (WTF-624)	pH (Incoming RAW Water)	
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)					
					150					684,409
1	7+4+6	1,324			130+40	0.73	20	7.5	6	685,733
2		-								
3		-								
4	7+6+4	3,406			150	0.98	40	7.3	6	689,139
5	7+6+4	1,295			130	1.30	20	7.8	6.2	690,434
6	7+6+4	1,301			115	0.72	15	7.3	6	691,735
7		855			105	0.86	10	7.4	6	692,590
8		1,203			90	0.92	15	7.3	6	693,793
9		-								
10		-								
11	4+7+6	3,650			30+160	1.00	60	7.5	6.1	697,443
12	4+7+6	1,314			170	1.10	20	7.4	6.1	698,757
13	4+7+6	1,341			160	1.00	10	7.5	6.1	700,098
14	4+7+6	1,163			145	0.68	15	7.4	6.2	701,261
15	4+7+6	696			135	0.52	10	7.4	6.2	701,957
16		-								
17		-								
18	7+4+6	2,975			95	0.98	40	7	6.1	704,932
19	7+4+6	1,278			80	0.65	15	7	6.1	706,210
20	7+4+6	1,330			65	0.83	15	7.4	6.2	707,540
21	7+4+6	1,343			56+64	1.20	9	7.2	6.2	708,883
22	7+4+6	1,315			110	0.70	10	7.1	6.1	710,198
23		-								
24		-								
25	7+4+6	2,224			85+115	0.80	25	7.5	6.1	712,422
26	7+4+6	1,261			180	0.63	20	7.5	6.1	713,683
27	7+4+6	1,322			170	0.95	10	7.8	6.1	715,005
28	7+4+6	1,219			155	1.26	15	7.6	6	716,224
29	7+4+6	1,249			145	0.75	10	7.8	6.1	717,473
30		-								
31		-								
<b>Total</b>		33,064	DAYS	30	2200		404	155.7	128	
<b>AVG.</b>		1,066.58			129.4117647	0.88	19.23809524	7.414285714	6.095238095	

Chlorine Mix Ratio = \_\_\_\_\_ quarts/gallons of \_\_\_\_\_ % chlorine added to \_\_\_\_\_ gallons of water in crock

Reported by: William L. Chaloupka Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0030392  
 Signature: W L Chaloupka Date: 2 July 07 Operator Grade Level: 1A-SW/GUI

Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	6/07	6/29/2007	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Ground <input type="checkbox"/> GWUDI
Public Water System ID	County	Town, Village, or City	<input type="checkbox"/> Purchase with subsequent chlorination
5111891	Suffolk	Upton, New York 11973	<input type="checkbox"/> Purchase w/out subsequent chlorination

DATE	Source(s) in Use Well No.: 4	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings		Daily Totalizer
			Gaseous		Liquid	Free chlorine residual at entry point (mg/l)	Hypochlorite used/day		
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)				
					84				1,708,097
1	4	724			75+75	0.03	9		1,708,821
2		-							
3		-							
4		1,865			117	0.04	33		1,710,686
5		741			111	0.02	6		1,711,427
6		617			108	0.02	3		1,712,044
7		391				0.10			1,712,435
8		1,326			96+54	0.04	12		1,713,761
9		-							
10		-							
11	4	4,317			115	0.04	35		1,718,078
12	4	1,461			105	0.06	10		1,719,539
13	4	1,555			95	0.02	10		1,721,094
14	4	1,381			86	0.01	9		1,722,475
15	4	877			80	0.01	6		1,723,352
16		-							
17		-							
18	4	3,715			54	0.02	26		1,727,067
19	4	616			51	0.05	3		1,727,683
20	4	625			45	0.01	6		1,728,308
21	4	949			38+106	0.02	6		1,729,257
22	4	1,132			138	0.01	6		1,730,389
23		-							
24		-							
25	4	848			138	0.21	NR		1,731,237
26	4	448			123	0.10	NR		1,731,685
27	4	472			150	0.08	6		1,732,157
28	4	505			144	0.06	6		1,732,662
29	4	602			136	0.16	6		1,733,264
30		-							
31		-							
<b>Total</b>		25,167	DAYS	30	1796		198		
<b>AVG.</b>		811.84			105.6470588	0.05	11		

Chlorine Mix Ratio = \_\_\_\_\_ quarts/gallons of \_\_\_\_\_ % chlorine added to \_\_\_\_\_ gallons of water in crock

Reported by: William L. Chaloupka Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0030392

Signature: *William L. Chaloupka* Date: 2 July 07 Operator Grade Level: 1A-SW/GUI



Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	6/07	6/29/2007	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Ground <input type="checkbox"/> GWUDI
Public Water System ID	County	Town, Village, or City	<input type="checkbox"/> Purchase with subsequent chlorination
5111891	Suffolk	Upton, New York 11973	<input type="checkbox"/> Purchase w/out subsequent chlorination

DATE	Source(s) in Use Well No.: 6	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings		
			Gaseous		Liquid		Free chlorine residual at entry point (mg/l)	Hypochlorite used/day	Daily Totalizer
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)				
					108				684,335
1	6	154			105	0.03	3		684,489
2		-							
3		-							
4		390			90	0.04	15		684,879
5		247			90	0.02			685,126
6		140			87	0.03	3		685,266
7		-				0.10			685,266
8		74			87+38	0.04			685,340
9		-							
10		-							
11	6	137			125	0.04			685,477
12	6	-			125	0.06			685,477
13	6	41			122	0.02	3		685,518
14	6	76			122	0.01			685,594
15	6	-			122	0.01			685,594
16		-							
17		-							
18	6	91			122	0.02			685,685
19	6	49			122	0.05			685,734
20	6	56			121	0.01	1		685,790
21	6	588			106+35	0.02	15		686,378
22	6	781			122	0.01	19		687,159
23		-							
24		-							
25	6	537			108	0.21	14		687,696
26	6	82			108	NR	NR		687,778
27	6	55			150	0.08	6		687,833
28	6	230			144	0.06	6		688,063
29	6	142			141	0.16	3		688,205
30		-							
31		-							
<b>Total</b>		3,870	DAYS	30	2126		88		
<b>AVG.</b>		124.84			118.1111111	0.05	6.769230769		

Chlorine Mix Ratio = \_\_\_\_\_ quarts/gallons of \_\_\_\_\_ % chlorine added to \_\_\_\_\_ gallons of water in crock

Reported by: William L. Chaloupka Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0030392

Signature: *William L. Chaloupka* Date: 2 July 07 Operator Grade Level 1A-SW/GUI

Well No. 7 - Supply to Water Treatment Facility

Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	6/07	6/29/2007	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Ground <input type="checkbox"/> GWUDI
Public Water System ID	County	Town, Village, or City	<input type="checkbox"/> Purchase with subsequent chlorination
5111891	Suffolk	Upton, New York 11973	<input type="checkbox"/> Purchase w/out subsequent chlorination

DATE	Source(s) in Use Well No.: 7	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings			Daily Totalizer
			Gaseous		Liquid		Free chlorine residual at entry point (mg/l)	Hypochlorite used/day		
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)					
					48					2,287,162
1		1,213			25+125	0.03	23			2,288,375
2		-								
3		-								
4		3,340			96	0.04	54			2,291,715
5		1,281			78	0.02	18			2,292,996
6		1,181			63	0.03	15			2,294,177
7		949				0.10				2,295,126
8		383			45+105	0.04	18			2,295,509
9		-								
10		-								
11	7	695			130	0.04	20			2,296,204
12	7	333			128	0.06	2			2,296,537
13	7	502			120	0.02	8			2,297,039
14	7	406			117	0.01	3			2,297,445
15	7	118			114	0.01	3			2,297,563
16		-								
17		-								
18	7	666			100	0.02	14			2,298,229
19	7	1,211			81	0.05	19			2,299,440
20	7	1,219			60	0.01	19			2,300,659
21	7	1,364			36+111	0.02	24			2,302,023
22	7	1,244			124	0.01	23			2,303,267
23		-								
24		-								
25	7	2,749			84	0.21	40			2,306,016
26	7	1,228			66	0.10	18			2,307,244
27	7	1,384			150	0.08	24			2,308,628
28	7	1,130			138	0.06	12			2,309,758
29	7	1,143			120	0.16	18			2,310,901
30		-								
31		-								
<b>Total</b>		23,739	DAYS	30	1769		375			
<b>AVG.</b>		765.77			104.0588235	0.05	18.75			

Chlorine Mix Ratio = \_\_\_\_\_ quarts/gallons of \_\_\_\_\_ % chlorine added to \_\_\_\_\_ gallons of water in crock

Reported by: William L. Chaloupka Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0030392

Signature: William L. Chaloupka Date: 2 July 07 Operator Grade Level 1A-SW/GUI



Public Water System Name		Reporting Month/Year		Date Report Submitted			Source Water Type(s)		
Brookhaven National Laboratory		6/07		6/29/2007			<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Ground <input type="checkbox"/> GWUDI <input type="checkbox"/> Purchase with subsequent chlorination <input type="checkbox"/> Purchase w/out subsequent chlorination		
Public Water System ID		County		Town, Village, or City					
5111891		Suffolk		Upton, New York 11973					
DATE	Source(s) in Use Well No.: 10	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings		
			Gaseous		Liquid		Free chlorine residual at entry point (mg/l)	Hypochlorite used/day	pH Sodium Hypochlorite
Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)							
									772,460
1	10	-	NR	NR		NR	NR	NR	772,460
2		-							
3		-							
4	10	-	NR	NR		NR	NR	NR	772,460
5	10	-	NR	NR		NR	NR	NR	772,460
6	10	-	NR	NR		NR	NR	NR	772,460
7	10	-	NR	NR		NR	NR	NR	772,460
8	10	-	NR	NR		NR	NR	NR	772,460
9		-							
10		-							
11	10	-	NR	NR		NR	NR	NR	772,460
12	10	-	NR	NR		NR	NR	NR	772,460
13	10	-	NR	NR		NR	NR	NR	772,460
14	10	-	NR	NR		NR	NR	NR	772,460
15	10	-	NR	NR		NR	NR	NR	772,460
16		-							
17		-							
18	10	-	NR	NR		NR	NR	NR	772,460
19	10	-	NR	NR		NR	NR	NR	772,460
20	10	-	NR	NR		NR	NR	NR	772,460
21	10	-	NR	NR		NR	NR	NR	772,460
22	10	-	NR	NR		NR	NR	NR	772,460
23		-							
24		-							
25	10	-	NR	NR		NR	NR	NR	772,460
26	10	-	NR	NR		NR	NR	NR	772,460
27	10	-	NR	NR		NR	NR	NR	772,460
28	10	-	NR	NR		NR	NR	NR	772,460
29	10	-	NR	NR		NR	NR	NR	772,460
30		-							
31		-							
<b>Total</b>		-	DAYS	30					
<b>AVG.</b>		-							

Chlorine Mix Ratio = \_\_\_\_\_ quarts/gallons of \_\_\_\_\_ % chlorine added to \_\_\_\_\_ gallons of water in crock

Reported by: William L. Chaloupka Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0030392

Signature: William L. Chaloupka Date: 2 July 07 Operator Grade Level 1A-SW/GUI



Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	6/07	6/29/2007	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Ground <input type="checkbox"/> GWUDI
Public Water System ID	County	Town, Village, or City	<input type="checkbox"/> Purchase with subsequent chlorination
5111891	Suffolk	Upton, New York 11973	<input type="checkbox"/> Purchase w/out subsequent chlorination

DATE	Source(s) in Use Well No.: 11	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings			Daily Totalizer
			Gaseous		Liquid	Free chlorine residual at entry point (mg/l)	Hypochlorite used/day	pH Sodium Hypochloride		
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)					
					99				736,058	
1	11	-	NR	NR	99	NR	NR	NR	736,058	
2		-								
3		-								
4	11	-	NR	NR	99	NR	NR	NR	736,058	
5	11	-	NR	NR	99	NR	NR	NR	736,058	
6	11	422	NR	NR	57	NR	NR	NR	736,480	
7	11	-	NR	NR		NR	NR	NR	736,480	
8	11	29	NR	NR	57	NR	NR	NR	736,509	
9		-								
10		-								
11	11	154	NR	NR	57+27		NR	NR	736,663	
12	11	193	NR	NR	75		9	NR	736,856	
13	11	85	NR	NR	73		2	NR	736,941	
14	11	14	NR	NR	73			NR	736,955	
15	11	524	NR	NR	50		23	NR	737,479	
16		-								
17		-								
18	11	1,074	NR	NR	18	NR	32	NR	738,553	
19	11	-	NR	NR	18+48	NR		NR	738,553	
20	11	250	NR	NR	51	NR	2	NR	738,803	
21	11	145	NR	NR	45+33	NR	6	NR	738,948	
22	11	130	NR	NR	74	NR	4	NR	739,078	
23		-								
24		-								
25	11	1,444	NR	NR	18	NR	56	NR	740,522	
26	11	-	NR	NR	18	NR	NR	NR	740,522	
27	11	22	NR	NR	18	NR	NR	NR	740,544	
28	11	224	NR	NR	5+120	NR	13	NR	740,768	
29	11	1	NR	NR	120	NR	5	NR	740,769	
30		-								
31		-								
<b>Total</b>		4,711	DAYS	30	999		152			
<b>AVG.</b>		151.97			62.4375		13.81818182			

Chlorine Mix Ratio = \_\_\_\_\_ quarts/gallons of \_\_\_\_\_ % chlorine added to \_\_\_\_\_ gallons of water in crock

Reported by: **William L. Chaloupka**

Title: **Water Systems Supervisor**

NYS DOH Operator Certification Number: **NY0030392**

Signature: *William L. Chaloupka*

Date: *2 July 07*

Operator Grade Level **1A-SW/GUI**

Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	6/07	6/29/2007	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Ground <input type="checkbox"/> GWUDI
Public Water System ID	County	Town, Village, or City	<input type="checkbox"/> Purchase with subsequent chlorination
5111891	Suffolk	Upton, New York 11973	<input type="checkbox"/> Purchase w/out subsequent chlorination

DATE	Source(s) in Use Well No.: 12	Treated water volume (1,000 gallons/day)	Chlorination				Other Treatments / Readings			Daily Totalizer
			Gaseous		Liquid	Free chlorine residual at entry point (mg/l)	Hypochlorite used/day	pH Sodium Hypochloride		
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)					
					42				843,015	
1	12	-	NR	NR	42	NR	NR	NR	843,015	
2		-								
3		-								
4		-	NR	NR	42	NR	NR	NR	843,015	
5		-	NR	NR	42	NR	NR	NR	843,015	
6	12	-	NR	NR	42	NR	NR	NR	843,015	
7	12	-	NR	NR		NR	NR	NR	843,015	
8	12	24	NR	NR	42	NR	NR	NR	843,039	
9		-								
10		-								
11	12	17	NR	NR	42	NR	NR	NR	843,056	
12	12	-	NR	NR	39	NR	3	NR	843,056	
13	12	284	NR	NR	39	NR		NR	843,340	
14	12	1	NR	NR	39	NR		NR	843,341	
15	12	60	NR	NR	39	NR		NR	843,401	
16		-								
17		-								
18	12	-	NR	NR	30+15	NR	9	NR	843,401	
19	12	-	NR	NR	45	NR		NR	843,401	
20	12	-	NR	NR	45	NR		NR	843,401	
21	12	-	NR	NR	45	NR		NR	843,401	
22	12	-	NR	NR	45	NR		NR	843,401	
23		-								
24		-								
25	12	63	NR	NR	45	NR	NR	NR	843,464	
26	12	22	NR	NR	45	NR	NR	NR	843,486	
27	12	-	NR	NR	45	NR	NR	NR	843,486	
28	12	-	NR	NR	45	NR	NR	NR	843,486	
29	12	-	NR	NR	45	NR	NR	NR	843,486	
30		-								
31		-								
<b>Total</b>		471	DAYS	30	813		12			
<b>AVG.</b>		15.19			42.78947368		6			

Chlorine Mix Ratio = \_\_\_\_\_ quarts/gallons of \_\_\_\_\_ % chlorine added to \_\_\_\_\_ gallons of water in crock

Reported by: William L. Chaloupka Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0030392  
 Signature: [Handwritten Signature] Date: 2 July 07 Operator Grade Level: 1A-SW/GUI



Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	724	154	1,213	0	0	0	2,091
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	1,865	390	3,340	0	0	0	5,595
5	741	247	1,281	0	0	0	2,269
6	617	140	1,181	0	422	0	2,360
7	391	0	949	0	0	0	1,340
8	1,326	74	383	0	29	24	1,836
9	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0
11	4,317	137	695	0	154	17	5,320
12	1,461	0	333	0	193	0	1,987
13	1,555	41	502	0	85	284	2,467
14	1,381	76	406	0	14	1	1,878
15	877	0	118	0	524	60	1,579
16	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0
18	3,715	91	666	0	1,074	0	5,546
19	616	49	1,211	0	0	0	1,876
20	625	56	1,219	0	250	0	2,150
21	949	588	1,364	0	145	0	3,046
22	1,132	781	1,244	0	130	0	3,287
23	0	0	0	0	0	0	0
24	0	0	0	0	0	63	63
25	848	537	2,749	0	1,444	0	5,578
26	448	82	1,228	0	0	22	1,780
27	472	55	1,384	0	22	0	1,933
28	505	230	1,130	0	224	0	2,089
29	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0
Total	24,565	3,728	22,596	0	4,710	471	56,070

Totalizer This Month	Totalizer Last Month	Total(x1,000) Gallons
-------------------------	-------------------------	--------------------------

Well 4	1,732,662	1,708,097	24,565
Well 6	688,063	684,335	3,728
Well 7	2,309,758	2,287,162	22,596
Well 10	772,460	772,460	0
Well 11	740,768	736,058	4,710
Well 12	843,486	843,015	471

AGS Water Supply Meter	644,538	631,012	13526.00
------------------------	---------	---------	----------

Biology Building - Well 9	6,793,150	6,793,140	0.01
---------------------------	-----------	-----------	------

CELL # DATE	#1	#2	#3	#4	#5	#6	#7	#8	TOTAL B'WASH
1	1	0	0	1	1	1	0	0	4
2									0
3									0
4	3	0	0	1	3	0	2	2	11
5	1	0	0	1	1	0	1	1	5
6	0	0	0	1	1	0	1	1	4
7	1	0	0	0	1	0	0	0	2
8	0	0	0	0	1	0	1	1	3
9									0
10									0
11	1	0	0	1	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0
13	1	0	0	0	1	0	1	1	4
14	0	1	0	1	1	1	0	0	4
15	0	0	0	0	0	0	0	0	0
16									0
17									0
18	1	0	0	1	2	0	1	2	7
19	1	0	0	0	1	0	1	0	1
20	0	1	0	1	1	1	0	0	4
21	1	1	0	0	1	1	1	2	7
22	2	0	0	1	2	1	1	7	14
23									0
24									0
25	2	1	0	2	2	1	1	1	10
26	1	0	0	0	1	0	0	4	2
27	0	1	0	0	1	1	1	3	7
28	1	1	0	1	1	0	1	5	10
29	1	oos	oos	1	1	1	0	5	9
30									0
31									0
TOTAL	18	6	0	13	23	8	13	35	110

TOTAL BACKWASHES

Gallons per Backwash

Total Backwash Gallons  (x1000Gallons)

Readings are recorded at 0800 Hours and Totalizers are reset



**Microbiological Samples and Free Chlorine Residual**

Sample Location	Date of Sample	Sample Type 1.Routine 2.Repeat	Total Coliform Positive	E.coli Positive	Free Chlorine Residual (mg/l)	Population Served: <u>3,500</u>
B-49 WATER TOWER 094-273	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.83	Number of microbiological monitoring samples required: <span style="border: 1px solid black; padding: 2px;">4</span>
B-640 WATER TOWER 076-408	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.5	Number of microbiological monitoring samples taken: <span style="border: 1px solid black; padding: 2px;">7</span>
B 1005 RHIC 045-12	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.46	Did an M&R violation occur? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B 363 APART. LAUNDRY 109-19	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.58	If "Yes," check reason (s) below: <input type="checkbox"/> Actual number of samples is fewer than required. <input type="checkbox"/> Did not collect/analyze repeat sample. <input type="checkbox"/> Did not collect/analyze for E. coli for positive total coliform from routine/repeat sample.
B-725 NSLS 075-602	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.85	
B 490 BLOCK 1 ACF 084-69	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.58	Did an MCL violation occur? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B490 BLOCK 4 MRC 084-68	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.72	If "Yes," check reason(s) below (see also Part 5, Table 6 for additional information). <input type="checkbox"/> For systems collecting less than 40 samples per month: two or more of the samples (routine and/or repeat) are positive for total coliform (= total coliform MCL violation). <input type="checkbox"/> For systems collecting 40 or more samples per month: more than 5% of the samples (routine and/or repeat) are positive for total coliform (= total coliform MCL violation).
FIELD DUP. BLDG. 725 075-602	6/8/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.85	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		The original sample was E.coli positive and at least 1 repeat sample was positive for total coliform (= E.coli MCL violation).
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		Reminder: System must collect a minimum of five (5) routine microbiological monitoring samples during the month following a repeat sample collection.
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		As required by S-1.72, "Operation of a Public Water System," a copy of this form shall be sent to your local health department by the 10th calendar day of the next reporting period.
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Sample Collector(s): JOHN KULESA

Name of NYSDOH Certified Laboratory: H2M Labs 575 Broad Hollow Road; Melville, N.Y. 11747

Did any MCL violation occur? If so, please describe: No

Did an emergency or low pressure problem occur? Did source water bypass an existing treatment process in the system? If so, please explain.

No

Comments: \_\_\_\_\_

**ATTACHMENT II**

**Brookhaven National Laboratory**

**Potable Water Supply**

**June 2007 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 2007**

<b>Sample Location</b>	<b>Sample Date</b>	<b>pH (SU)</b>	<b>Temperature (Degrees F)</b>	<b>Conductivity (µmhos)</b>	<b>Alkalinity (mg/L)</b>	<b>Calcium (mg/L)</b>
WTP	6/5/07	7.8	58	217	ANR	ANR
WTP	6/7/07	7.4	57	149	ANR	ANR
WTP	6/12/07	7.4	56	249	ANR	ANR
WTP	6/14/07	7.4	55	240	ANR	ANR
WTP	6/19/07	7	58	301	ANR	ANR
WTP	6/21/07	7.2	58	274	ANR	ANR
WTP	6/26/07	7.5	58	152	ANR	ANR
WTP	6/28/07	7.6	57	153	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 2007 Stage 1 Disinfectants & Disinfection Byproduct Rule**

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

**Attachment III**

**June 2007 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data  
Table II - Maximum Residual Disinfectant Level (MRDL) Compliance**

Location	Total Residual Chlorine (mg/L)											
	July 06	Aug. 06	Sept. 06	Oct. 06	Nov. 06	Dec. 06	Jan. 07	Feb. 07	Mar. 07	Apr. 07	May 07	June 07
Bldg. 49 Water Tower	0.6	0.6	0.5	0.8	0.6	1	0.7	0.7	0.6	0.6	0.9	0.8
Bldg. 640 Water Tower	0.8	0.6	0.5	1.4	0.5	0.5	0.3	0.6	0.6	0.6	0.8	0.5
Bldg. 363 Apt. Laundry	0.5	0.6	0.5	0.5	0.5	0.5	0.3	0.5	0.3	0.5	0.3	0.6
Bldg. 1005 RHIC	0.7	0.5	0.6	0.6	0.6	0.7	0.3	0.7	0.6	0.6	0.9	0.5
Bldg. 930 LINAC	0.6	NS	0.6	NS	1.0	NS	0.3	NS	0.8	NS	1.5	NS
Bldg. 725 NSLS	NS	0.7	NS	0.5	NS	0.3	NS	0.8	NS	0.8	NS	0.8
Bldg. 490 Outpatient Clinic	0.6	NS	0.5	NS	0.7	NS	0.5	NS	0.7	NS	0.5	NS
Bldg. 490 Block 11	0.5	NS	0.6	NS	0.5	NS	0.4	NS	0.3	NS	0.5	NS
Bldg. 490 Block 1 ACF	NS	0.5	NS	0.5	NS	0.3	NS	0.4	NS	0.5	NS	0.6
Bldg. 490 Block 4 MRC	NS	0.6	NS	0.6	NS	0.4	NS	0.6	NS	0.5	NS	0.7
<b>Monthly Average</b>	0.6	0.6	0.5	0.7	0.6	0.5	0.4	0.6	0.6	0.6	0.8	0.6

NA - Not Applicable

NS- Not Scheduled for sampling

**Running Annual Average (mg/L) 0.6 (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

## LABORATORY RESULTS

Brookhaven National Lab.-BNLM

70 Bell Ave.

Upton, NY 11973

Attn To : Bob Lee

Lab No. : 0706711-001A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Federal ID : 5111891

Client ID. : 23208-001

Collected : 6/8/07 8:59:00 AM

Point No : 094-273

Received : 6/8/07 3:15:00 PM

Location : B-49 Water Tower

Collected By : CLIENT

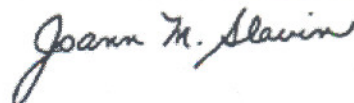
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.8		1	mg/L		M4500-Cl G	06/08/2007

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

Date Reported :



# 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 : Bob Lee

Lab No. : 0706711-002A

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

Federal ID : 5111891  
Collected : 6/8/07 7:44:00 AM  
Received : 6/8/07 3:15:00 PM  
Collected By : CLIENT  
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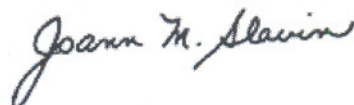
Client ID. : 23208-002

Point No : 076-408  
Location : B-640 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	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.5		1	mg/L		M4500-Cl G	06/08/2007

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

Date Reported :



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 : Bob Lee

Lab No. : 0706711-003A

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

Federal ID 5111891

Client ID : 23208-003

Collected : 6/8/07 7:28:00 AM

Point No : 109-19

Received : 6/8/07 3:15:00 PM

Location : B-363 Apt.Laundry

Collected By : CLIENT

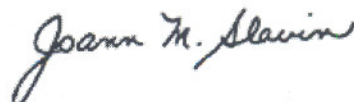
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Total Coliform	Negative		1	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.6		1	mg/L		M4500-Cl G	06/08/2007

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

Date Reported :





# 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 : Bob Lee

Lab No. : 0706711-004A

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

Federal ID : 5111891  
Collected : 6/8/07 7:53:00 AM  
Received : 6/8/07 3:15:00 PM  
Collected By : CLIENT  
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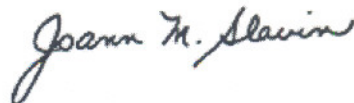
Client ID. : 23208-004

Point No : 045-12  
Location : B-1005 RHIC

<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	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.5		1	mg/L		M4500-Cl G	06/08/2007

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

Date Reported :



# 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 : Bob Lee

Lab No. : 0706711-005A

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

Federal ID : 5111891  
Collected : 6/8/07 8:06:00 AM  
Received : 6/8/07 3:15:00 PM  
Collected By : CLIENT  
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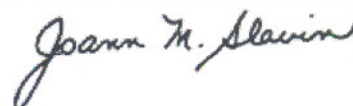
Client ID. : 23208-005

Point No : 075-602  
Location : B-725 NSLS

<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	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.8		1	mg/L		M4500-Cl G	06/08/2007

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

Date Reported :



# 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 : Bob Lee

Lab No. : 0706711-006A

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

Federal ID 5111891  
Collected : 6/8/07 10:20:00 AM  
Received : 6/8/07 3:15:00 PM  
Collected By : CLIENT

Client ID. : 23208-006

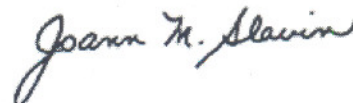
Point No : 084-69  
Location : B-490 Block 1 ACF

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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	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.6		1	mg/L		M4500-Cl G	06/08/2007

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

Date Reported :





# 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 : Bob Lee

Federal ID 5111891

Collected : 6/8/07 10:37:00 AM

Received : 6/8/07 3:15:00 PM

Collected By : CLIENT

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Lab No. : 0706711-007A

Client ID. : 23208-007

Sample Information...

Type : Potable Water

Origin : Distribution

Routine

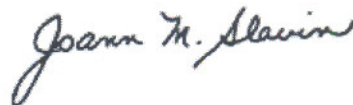
Point No : 084-68

Location : B-490 Block 4 MRC

<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	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.7		1	mg/L		M4500-Cl G	06/08/2007

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

Date Reported :



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 : Bob Lee

Lab No. : 0706711-014A

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

Federal ID : 5111891  
Collected : 6/8/07 8:06:00 AM  
Received : 6/8/07 3:15:00 PM  
Collected By : CLIENT

Client ID. : 23208-014

Point No : 075-602  
Location : B-725 NSLS

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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	N/A	Negative	M9223	06/09/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	06/09/2007 12:00 PM
Total Residual Chlorine	0.8		1	mg/L		M4500-CI G	06/08/2007

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

Date Reported :

