



October 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 September 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 September.
- Attachment II: September 2007 Biweekly and Semi-Annual Water Quality Monitoring Data for the BNL Distribution System and Potable Water Wells.
- Attachment III: September 2007 Stage 1 Disinfectants & Disinfection Byproduct Rule Monitoring Data and Bacteriological Analyses for the BNL Distribution System.
- Attachment IV: 2007 Third Quarter Radiological Analyses for the BNL Potable Water Wells.

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



October 10, 2007

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.

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

File: EC61ER.07

ATTACHMENT I
Brookhaven National Laboratory
Potable Water Supply
Monthly Operational Data for September 2007
for the BNL Potable Water System

Public Water System Name		Reporting Month/Year		Date Report Submitted		Source Water Type(s)				
Brookhaven National Laboratory		9/07		9/30/2007		<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(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)					
					82				757,589	
1		-								
2		-								
3	7+4+6	2,058			55	0.07	27	7.5	6	759,647
4		-								
5	7+4+6	1,435			30+165	0.10	25	6.5	6	761,082
6	7+4+6	659			180	0.10	15	7.6	6	761,741
7	7+4+6	684			160	0.07	20	7.4	6	762,425
8		-								
9		-								
10	7+4+6	2,093	NR	NR	130	1.00	30	7.7	6.1	764,518
11	7+4+6	767	NR	NR	120+70=190	0.71	10	6.6	6	765,285
12	7+4+6	693	NR	NR	180	1.20	10	8	6.1	765,978
13	7+4+6	647	NR	NR	170	1.00	10	7.5	6	766,625
14	7+4+6	627	NR	NR	160	0.70	10	7.5	6	767,252
15		-								
16	774125	-								
17	7+4+6	1,573	NR	NR	140	0.58	20	7.7	6	768,825
18	7+4+6	537	NR	NR	132	0.65	8	7.7	6	769,362
19	7+4+6	523	NR	NR	125	0.72	7	7.6	6	769,885
20	7+4+6	563	NR	NR	115	0.85	10	7.7	6.1	770,448
21	7+4+6	618	NR	NR	110	0.41	5	7.8	6.1	771,066
22		-								
23		-								
24	7+4+6	1,766	NR	NR	85	0.60	25	7.6	6.1	772,832
25	7+4+6	622	NR	NR	75	1.14	10	7.7	6	773,454
26	7+4+6	671	NR	NR	65	0.59	10	7.8	6	774,125
27	7+4+6	678	NR	NR	55	0.80	10	7.8	6	774,803
28	7+4+6	654	NR	NR	45+105	1.00	10	7.8	6.1	775,457
29		-								
30		-								
31	7+4+6	-								
Total		17,868	DAYS	30	1937		272			
AVG.		576.39			121.1	0.65	14.31578947			

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

Reported by: Lowell Ross Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0031941
 Signature: [Signature] Date: 10-3-07 Operator Grade Level: 1A-SW/GUI

Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	9/07	9/30/2007	<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				Free chlorine residual at entry point (mg/l)	Hypochlorite used/day	Other Treatments / Readings	Daily Totalizer
			Gaseous		Liquid					
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons)	Hypochlorite in Tank				
					111				1,749,843	
1		-								
2		-								
3	4	254			108	0.07	3		1,750,097	
4		-								
5	4	37			108	0.10			1,750,134	
6	4	141			105	0.10			1,750,275	
7	4	48			105+45	0.07			1,750,323	
8		-								
9		-								
10	4	298	NR	NR	144	0.07	6		1,750,621	
11	4	115	NR	NR	140	0.03	4		1,750,736	
12	4	136	NR	NR	140				1,750,872	
13	4	102	NR	NR	135	0.07	5		1,750,974	
14	4	159	NR	NR	135	0.20			1,751,133	
15		-								
16		-								
17	4	223	NR	NR	132	0.11	3		1,751,356	
18	4	103	NR	NR	132	0.12			1,751,459	
19	4	23	NR	NR	132	0.10			1,751,482	
20	4	86	NR	NR	129	0.05			1,751,568	
21	4	62	NR	NR	129+21	0.08			1,751,630	
22		-								
23		-								
24	4	58	NR	NR	150	0.09			1,751,688	
25	4	60	NR	NR	150	0.07			1,751,748	
26	4	157	NR	NR	144	0.06	6		1,751,905	
27	4	99	NR	NR	144	0.12			1,752,004	
28	4	123	NR	NR	141	0.08	3		1,752,127	
29		-								
30		-								
31	4	-								
Total		2,284	DAYS	30	2269		30			
AVG.		73.68			133.4705882	0.09	3.75			

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

Reported by: Lowell Ross Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0031941
 Signature: *Lowell Ross* Date: 10-3-07 Operator Grade Level 1A-SW/GUI

NEW YORK STATE DEPARTMENT OF HEALTH

Bureau of Water Supply Protection

Water Systems Operation Report

Well No. 6 - Supply to Water Treatment Facility

Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	9/07	9/30/2007	<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				Free chlorine residual at entry point (mg/l)	Hypochlorite used/day	Other Treatments / Readings	Daily Totalizer
			Gaseous		Liquid					
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)					
					96				692,343	
1		-								
2		-								
3	6	-			96	0.07			692,343	
4		-								
5	6	97			96	0.10			692,440	
6	6	-			96	0.10			692,440	
7	6	34			96	0.07			692,474	
8		-								
9		-								
10	6	64	NR	NR	96	0.07			692,538	
11	6	-	NR	NR	96	0.03			692,538	
12	6	3	NR	NR	96				692,541	
13	6	47	NR	NR	96	0.07			692,588	
14	6	39	NR	NR	96	0.20			692,627	
15		-								
16		-								
17	6	59	NR	NR	150	0.11			692,686	
18	6	24	NR	NR	150	0.12			692,710	
19	6	-	NR	NR	150	0.10			692,710	
20	6	47	NR	NR	150	0.05			692,757	
21	6	-	NR	NR	150	0.08			692,757	
22		-								
23		-								
24	6	253	NR	NR	150	0.09			693,010	
25	6	41	NR	NR	150	0.07			693,051	
26	6	110	NR	NR	144	0.06	6		693,161	
27	6	37	NR	NR	144	0.12			693,198	
28	6	-	NR	NR	144	0.08			693,198	
29		-								
30		-								
31	6	-								
Total	69	855	DAYS	30	2346		6			
AVG.		27.58			123.4736842	0.09	3			

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

Reported by: Lowell Ross Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0031941
 Signature: *Lowell Ross* Date: 10-3-07 Operator Grade Level 1A-SW/GUI

Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	9-07	9/30/2007	<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)					
					135				2,343,651	
1		-								
2		-								
3	7	2,110			87	0.07	48		2,345,761	
4	7									
5	7	1,699			60	0.10	27		2,347,460	
6	7	672			48	0.10	12		2,348,132	
7	7	757			36+114	0.07	12		2,348,889	
8		-								
9		-								
10	7	2,396	NR	NR	105	0.07	45		2,351,285	
11	7	983	NR	NR	85+65	0.03	20		2,352,268	
12	7	705	NR	NR	141	0.12	9		2,352,973	
13	7	652	NR	NR	125	0.07	16		2,353,625	
14	7	656	NR	NR	117	0.20	8		2,354,281	
15		-								
16		-								
17	7	1,835	NR	NR	110	0.11	7		2,356,116	
18	7	518	NR	NR	104	0.10	6		2,356,634	
19	7	662	NR	NR	96	0.10	8		2,357,296	
20	7	614	NR	NR	87	0.05	9		2,357,910	
21	7	622	NR	NR	78+72	0.08	10		2,358,532	
22		-								
23		-								
24	7	1,950	NR	NR	112	0.09	38		2,360,482	
25	7	715	NR	NR	99	0.07	13		2,361,197	
26	7	707	NR	NR	90	0.06	9		2,361,904	
27	7	752	NR	NR	78+72	0.12	12		2,362,656	
28	7	700	NR	NR	141	0.08	9		2,363,356	
29		-								
30		-								
31	7	-								
Total		19,705	DAYS	30	1522		318			
AVG.		656.83			101.4666667	0.09	16.73684211			

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

Reported by: Lowell Ross Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0031941

Signature: [Signature] Date: 10-3-07 Operator Grade Level 1A-SW/GUI

NEW YORK STATE DEPARTMENT OF HEALTH

Bureau of Water Supply Protection

Water Systems Operation Report

Well No. 10 - Direct Supply to Distribution System

Public Water System Name	Reporting Month/Year	Date Report Submitted	Source Water Type(s)
Brookhaven National Laboratory	9/07	9/30/2007	<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.: 10	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)					
		-							772,460	
1		-								
2		-								
3	10	-				NR	NR	NR	772,460	
4		-								
5	10	-				NR	NR	NR	772,460	
6	10	-				NR	NR	NR	772,460	
7	10	-				NR	NR	NR	772,460	
8		-								
9		-								
10	10	-	NR	NR		NR	NR	NR	772,460	
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		-								
16		-								
17	10	-	NR	NR		NR	NR	NR	772,460	
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		-								
23		-								
24	10	-	NR	NR		NR	NR	NR	772,460	
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	-								
30	10	-								
31	10	-								
Total		-	DAYS	30						
AVG.		-								

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

Reported by: Lowell Ross Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0031941
 Signature: [Signature] Date: 10-3-07 Operator Grade Level 1A-SW/GUI

NEW YORK STATE DEPARTMENT OF HEALTH

Bureau of Water Supply Protection

Water Systems Operation Report

Well No. 11 - Direct Supply to Distribution System

Public Water System Name		Reporting Month/Year		Date Report Submitted		Source Water Type(s)			
Brookhaven National Laboratory		9/07		9/30/2007		<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.: 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	
			Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)				
					105				741,100
1		-							
2		-							
3	11	-			105	NR	NR	NR	741,100
4		-							
5	11	-			105	NR	NR	NR	741,100
6	11	-			105	NR	NR	NR	741,100
7	11	-			105	NR	NR	NR	741,100
8		-							
9		-							
10	11	26	NR	NR	102	NR	3	NR	741,126
11	11	-	NR	NR	102	NR		NR	741,126
12	11	-	NR	NR	102	NR		NR	741,126
13	11	-	NR	NR	102	NR		NR	741,126
14	11	-	NR	NR	102	NR		NR	741,126
15		-							
16		-							
17	11	-	NR	NR	102	NR		NR	741,126
18	11	-	NR	NR	102	NR		NR	741,126
19	11	8	NR	NR	102	NR		NR	741,134
20	11	-	NR	NR	102	NR		NR	741,134
21	11	-	NR	NR	102	NR		NR	741,134
22	11	-							
23	11	-							
24	11	-	NR	NR	102	NR		NR	741,134
25	11	-	NR	NR	102	NR		NR	741,134
26	11	-	NR	NR	102	NR		NR	741,134
27	11	-	NR	NR	102	NR		NR	741,134
28	11	-	NR	NR	102	NR		NR	741,134
29	11	-							
30	11	-							
31	11	-							
Total		34	DAYS	30	1950		3		
AVG.		1.10			102.6315789		3		

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

Reported by: Lowell Ross Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0031941
 Signature: *Lowell Ross* Date: 10-7-07 Operator Grade Level 1A-SW/GUI

Public Water System Name		Reporting Month/Year		Date Report Submitted		Source Water Type(s)			
Brookhaven National Laboratory		9/07		9/30/2007		<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.: 12	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 Hypochloride	Daily Totalizer
Cylinder weight (lbs.)	Chlorine used per day (lbs.)	Hypochlorite (gallons Hypochlorite in Tank)							
					135				
1		-							
2		-							
3	12	-			138	NR	NR	NR	857,634
4		-							
5	12	-			138	NR	NR	NR	857,634
6	12	-			138	NR	NR	NR	857,634
7	12	-			138	NR	NR	NR	857,634
8		-							
9		-							
10	12	18	NR	NR	138	NR	NR	NR	857,652
11	12	-	NR	NR	138	NR	NR	NR	857,652
12	12	-	NR	NR	138	NR	NR	NR	857,652
13	12	-	NR	NR	138	NR	NR	NR	857,652
14	12	-	NR	NR	138	NR	NR	NR	857,652
15		-							
16		-							
17	12	-	NR	NR	138	NR	NR	NR	857,652
18	12	-	NR	NR	138	NR	NR	NR	857,652
19	12	6	NR	NR	138	NR	NR	NR	857,658
20	12	-	NR	NR	138	NR	NR	NR	857,658
21	12	-	NR	NR	138	NR	NR	NR	857,658
22	12	-							
23	12	-							
24	12	-	NR	NR	138	NR	NR	NR	857,658
25	12	-	NR	NR	138	NR	NR	NR	857,658
26	12	-	NR	NR	138	NR	NR	NR	857,658
27	12	-	NR	NR	138	NR	NR	NR	857,658
28	12	-	NR	NR	138	NR	NR	NR	857,658
29	12	-							
30	12	-							
31	12	-							
Total		24	DAYS	30	2622				
AVG.		0.77			138				

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

Reported by: Lowell Ross Title: Water Systems Supervisor NYS DOH Operator Certification Number: NY0031941

Signature: *Lowell Ross* Date: 10-3-07 Operator Grade Level 1A-SW/GUI

9/28/2007

Month of _____ 2007

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	254	0	2,110	0	0	0	2,364
4	0	0	0	0	0	0	0
5	37	97	1,699	0	0	0	1,833
6	141	0	672	0	0	0	813
7	48	34	757	0	0	0	839
8	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0
10	298	64	2,396	0	26	18	2,802
11	115	0	983	0	0	0	1,098
12	136	3	705	0	0	0	844
13	102	47	652	0	0	0	801
14	159	39	656	0	0	0	854
15	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0
17	223	59	1,835	0	0	0	2,117
18	103	24	518	0	0	0	645
19	23	0	662	0	8	6	699
20	86	47	614	0	0	0	747
21	62	0	622	0	0	0	684
22	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0
24	58	253	1,950	0	0	0	2,261
25	60	41	715	0	0	0	816
26	157	110	707	0	0	0	974
27	99	37	752	0	0	0	888
28	123	0	700	0	0	0	823
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	2,284	855	19,705	0	34	24	22,902

	Totalizer This Month	Totalizer Last Month	Total(x1,000) Gallons
Well 4	1,752,127	1,749,843	2,284
Well 6	693,198	692,343	855
Well 7	2,363,356	2,343,651	19,705
Well 10	772,460	772,460	0
Well 11	741,134	741,100	34
Well 12	857,658	857,634	24

AGS Water Supply Meter 645,289 645,289 0.00

Biology Building - Well 9 6,793,150 6,793,150 0.00

ATTACHMENT II

Brookhaven National Laboratory

Potable Water Supply

September 2007 Biweekly and Semi-Annual 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
September 2007

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	9/6/07	7.6	59	161	ANR	ANR
WTP	9/11/07	6.6	58	146	ANR	ANR
WTP	9/13/07	7.5	58	144	ANR	ANR
WTP	9/18/07	7.7	57	143	ANR	ANR
WTP	9/20/07	7.7	58	156	ANR	ANR
WTP	9/25/07	7.7	57	163	ANR	ANR
WTP	9/27/07	7.8	58	144	ANR	ANR
Well 4	9/7/07	6.2	66	210	11.5	4.43
Well 6	9/7/07	6.1	66	196	7.2	3.97
Well 7	9/7/07	6.0	66	248	14.2	5.89
Well 10	9/7/07	6.2	64	139	21.2	8.14
Well 11	9/7/07	6.1	64	174	16.2	6.31
Well 12	9/7/07	6.3	66	283	19.4	8.51

ANR- Analysis Not Required

NR- Not Reported

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

H2M LABS, INC.

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

LABORATORY RESULTS

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

Lab No. : 0710369-014

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

Federal ID : 5111891

Client ID. : 23388-014

Collected : 9/7/2007 8:55:00 AM

Point No: 083-20

Received : 9/7/2007 3:10:00 PM

Location: Well #4 Raw

Collected By CLIENT

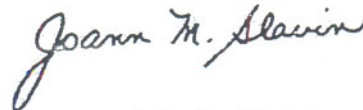
Copy : ORIGINAL

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>
Specific Conductance	210		1	µmhos/cm		E120.1	09/07/2007
PH (FIELD)	6.2		1	pH Units		E150.1	09/07/2007
Temperature	19		1	°C		E170.1	09/07/2007
Alkalinity, Total (As CaCO3)	11.5		1	mg/L		M2320 B	09/12/2007 3:28 PM

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

Date Reported : 9/25/2007



Laboratory Manager

BNLM196 A37

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 : 9/7/07 8:55:00 AM

Received : 9/7/07 3:10:00 PM

Collected By : CLIENT

Copy : ORIGINAL

CC

Lab No. : 0710369-014C

Client ID. : 23388-014

Point No : 083-20

Location : Well #4 Raw

Sample Information...

Type : Potable Water

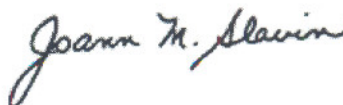
Origin : Raw Well

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>
Calcium	4430		1	µg/L		E200.7	09/20/2007 12:55 PM

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

Date Reported : 9/28/07



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 : Bob Lee

Lab No. : 0710369-009

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

Federal ID : 5111891

Client ID. : 23388-009

Collected : 9/7/2007 10:25:00 AM Point No: 093-07
Received : 9/7/2007 3:10:00 PM Location: Well #6 Raw

Collected By CLIENT

Copy : ORIGINAL

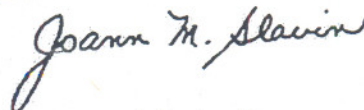
CC

<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>
Specific Conductance	196		1	µmhos/cm		E120.1	09/07/2007
PH (FIELD)	6.1		1	pH Units		E150.1	09/07/2007
Temperature	19		1	°C		E170.1	09/07/2007
Alkalinity, Total (As CaCO3)	7.2		1	mg/L		M2320 B	09/12/2007 2:32 PM

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

Date Reported : 9/25/2007

Page 9 of 14



Laboratory Manager

BNLM196 A27

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 : Bob Lee

Federal ID 5111891

Collected : 9/7/07 10:25:00 AM

Received : 9/7/07 3:10:00 PM

Collected By : CLIENT

Copy : ORIGINAL

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LABORATORY RESULTS

Lab No. : 0710369-009C

Sample Information...

Type : Potable Water

Origin : Raw Well

Routine

Client ID. : 23388-009

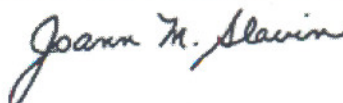
Point No : 093-07

Location : Well #6 Raw

<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>
Calcium	3970		1	µg/L		E200.7	09/20/2007 11:44 AM

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

Date Reported : 9/28/07



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. : 0710369-010

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

Federal ID : 5111891

Client ID. : 23388-010

Collected : 9/7/2007 10:10:00 AM Point No: 092-03
Received : 9/7/2007 3:10:00 PM Location: Well #7 Raw

Collected By CLIENT

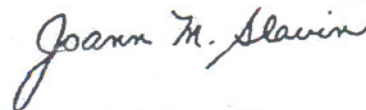
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Specific Conductance	248		1	µmhos/cm		E120.1	09/07/2007
PH (FIELD)	6.0		1	pH Units		E150.1	09/07/2007
Temperature	19		1	°C		E170.1	09/07/2007
Alkalinity, Total (As CaCO3)	14.2		1	mg/L		M2320 B	09/12/2007 2:40 PM

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

Date Reported : 9/25/2007



Laboratory Manager

BNLM196 A29

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. : 0710369-010C

Sample Information...

Type : Potable Water
Origin : Raw Well
Routine

Federal ID 5111891

Client ID. : 23388-010

Collected : 9/7/07 10:10:00 AM

Point No : 092-03

Received : 9/7/07 3:10:00 PM

Location : Well #7 Raw

Collected By : CLIENT

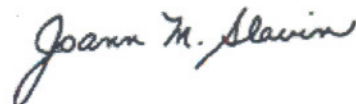
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Calcium	5890		1	µg/L		E200.7	09/20/2007 11:58 AM

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

Date Reported : 9/28/07



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. : 0710369-013

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

Federal ID : 5111891

Client ID. : 23388-013

Collected : 9/7/2007 11:02:00 AM Point No: 055-09

Received : 9/7/2007 3:10:00 PM Location: Well #10 Raw

Collected By CLIENT

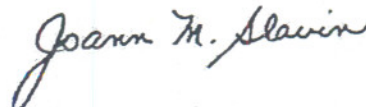
Copy : ORIGINAL

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>
Specific Conductance	139		1	µmhos/cm		E120.1	09/07/2007
PH (FIELD)	6.2		1	pH Units		E150.1	09/07/2007
Temperature	18		1	°C		E170.1	09/07/2007
Alkalinity, Total (As CaCO3)	21.2		1	mg/L		M2320 B	09/12/2007 3:04 PM

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

Date Reported : 9/25/2007



Laboratory Manager

BNLM196 A35

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. : 0710369-013C

Sample Information...

Type : Potable Water
Origin : Raw Well
Routine

Federal ID 5111891

Client ID. : 23388-013

Collected : 9/7/07 11:02:00 AM

Point No : 055-09

Received : 9/7/07 3:10:00 PM

Location : Well #10 Raw

Collected By : CLIENT

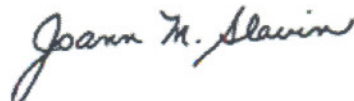
Copy : ORIGINAL

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>
Calcium	8140		1	µg/L		E200.7	09/20/2007 12:34 PM

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

Date Reported : 9/28/07



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 : Bob Lee

Lab No. : 0710369-011

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

Federal ID : 5111891

Client ID. : 23388-011

Collected : 9/7/2007 10:55:00 AM Point No: 056-19

Received : 9/7/2007 3:10:00 PM Location: Well #11 Raw

Collected By CLIENT

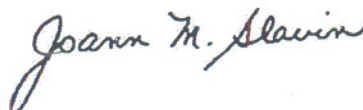
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Specific Conductance	174		1	µmhos/cm		E120.1	09/07/2007
PH (FIELD)	6.1		1	pH Units		E150.1	09/07/2007
Temperature	18		1	°C		E170.1	09/07/2007
Alkalinity, Total (As CaCO3)	16.2		1	mg/L		M2320 B	09/12/2007 2:48 PM

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

Date Reported : 9/25/2007



Laboratory Manager

BNLM196 A31

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. : 0710369-011C

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

Federal ID 5111891

Client ID. : 23388-011

Collected : 9/7/07 10:55:00 AM

Point No : 056-19

Received : 9/7/07 3:10:00 PM

Location : Well #11 Raw

Collected By : CLIENT

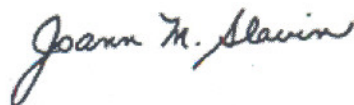
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<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Method Number</u>	<u>Analyzed</u>
Calcium	6310		1	µg/L		E200.7	09/20/2007 12:19 PM

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

Date Reported : 9/28/07



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. : 0710369-012

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

Federal ID : 5111891

Client ID. : 23388-012

Collected : 9/7/2007 10:45:00 AM

Point No: 056-20

Received : 9/7/2007 3:10:00 PM

Location: Well #12 Raw

Collected By CLIENT

Copy : ORIGINAL

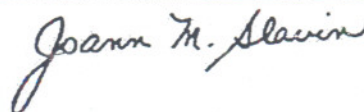
CC

<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>
Specific Conductance	283		1	µmhos/cm		E120.1	09/07/2007
PH (FIELD)	6.3		1	pH Units		E150.1	09/07/2007
Temperature	19		1	°C		E170.1	09/07/2007
Alkalinity, Total (As CaCO3)	19.4		1	mg/L		M2320 B	09/12/2007 2:56 PM

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

Date Reported : 9/25/2007

Page 12 of 14



Laboratory Manager

BNLM196 A33

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. : 0710369-012C

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

Federal ID : 5111891
Collected : 9/7/07 10:45:00 AM
Received : 9/7/07 3:10:00 PM
Collected By : CLIENT
Copy : ORIGINAL
CC

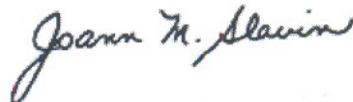
Client ID. : 23388-012

Point No : 056-20
Location : Well #12 Raw

<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>
Calcium	8510		1	µg/L		E200.7	09/20/2007 12:27 PM

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

Date Reported : 9/28/07



Laboratory Manager

ATTACHMENT III

Brookhaven National Laboratory

Potable Water Supply

September 2007 Stage 1 Disinfectants & Disinfection Byproduct Rule

Monitoring Data and Bacteriological Analyses for the BNL Distribution System

Attachment III

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

Location	Total Residual Chlorine (mg/L)											
	Oct. 06	Nov. 06	Dec. 06	Jan. 07	Feb. 07	Mar. 07	Apr. 07	May 07	June 07	July 07	Aug. 07	Sept. 07
Bldg. 49 Water Tower	0.8	0.6	1	0.7	0.7	0.6	0.6	0.9	0.8	0.6	0.8	0.5
Bldg. 640 Water Tower	1.4	0.5	0.5	0.3	0.6	0.6	0.6	0.8	0.5	0.5	0.6	0.7
Bldg. 363 Apt. Laundry	0.5	0.5	0.5	0.3	0.5	0.3	0.5	0.3	0.6	0.4	0.5	0.4
Bldg. 1005 RHIC	0.6	0.6	0.7	0.3	0.7	0.6	0.6	0.9	0.5	0.5	0.5	0.5
Bldg. 930 LINAC	NS	1.0	NS	0.3	NS	0.8	NS	1.5	NS	0.4	NS	1.0
Bldg. 725 NSLS	0.5	NS	0.3	NS	0.8	NS	0.8	NS	0.8	NS	0.9	NS
Bldg. 490 Outpatient Clinic	NS	0.7	NS	0.5	NS	0.7	NS	0.5	NS	0.9	NS	0.7
Bldg. 490 Block 11	NS	0.5	NS	0.4	NS	0.3	NS	0.5	NS	0.6	NS	0.4
Bldg. 490 Block 1 ACF	0.5	NS	0.3	NS	0.4	NS	0.5	NS	0.6	NS	1.1	NS
Bldg. 490 Block 4 MRC	0.6	NS	0.4	NS	0.6	NS	0.5	NS	0.7	NS	0.6	NS
Monthly Average	0.7	0.6	0.5	0.4	0.6	0.6	0.6	0.8	0.6	0.6	0.7	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

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	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.51	Number of microbiological monitoring samples required: <u>4</u>
B-640 WATER TOWER 076-408	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.72	Number of microbiological monitoring samples taken: <u>7</u>
B 1005 RHIC 045-12	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.52	Did an M&R violation occur? <input type="checkbox"/> Yes <input type="checkbox"/> No
B 363 APART. LAUNDRY 109-19	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.42	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-930 LINAC 054-187	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1	Did an MCL violation occur? <input type="checkbox"/> Yes <input type="checkbox"/> No
B 490 OUTPATIENT 084-70	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.7	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). <input type="checkbox"/> The original sample was E.coli positive and at least 1 repeat sample was positive for total coliform (= E.coli MCL violation).
B490 BLOCK 11 084-67	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.38	Reminder: System must collect a minimum of five (5) routine microbiological monitoring samples during the month following a repeat sample collection. 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.
FIELD DUP. B-490 BLOCK11 084-67	9/7/2007	1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.38	
			<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		
			<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): (Name)

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: _____

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 : Bob Lee

LABORATORY RESULTS

Lab No. : 0710369-001A
Client ID. : 23388-001

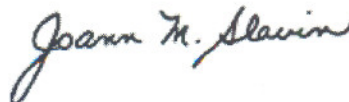
Sample Information
Type : Potable Water
Origin : Distribution
Routine

Federal ID : 5111891
Collected : 9/7/07 10:35:00 AM Point No : 094-273
Received : 9/7/07 3:10:00 PM Location : B-49 Water Tower
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	N/A	Negative	M9223	09/08/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	09/08/2007 12:00 PM
Total Residual Chlorine	0.5		1	mg/L		M4500-Cl G	09/07/2007

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

Date Reported : 9/28/07



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 : Bob Lee

Federal ID 5111891

Collected : 9/7/07 11:15:00 AM Point No : 076-408

Received : 9/7/07 3:10:00 PM Location : B-640 Water Tower

Collected By : CLIENT

Copy : ORIGINAL

CC

LABORATORY RESULTS

Lab No. : 0710369-002A

Client ID. : 23388-002

Sample Information

Type : Potable Water

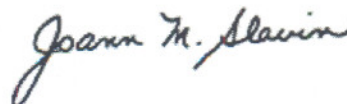
Origin : Distribution

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	N/A	Negative	M9223	09/08/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	09/08/2007 12:00 PM
Total Residual Chlorine	0.7		1	mg/L		M4500-Cl G	09/07/2007

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

Date Reported : 9/28/07



Laboratory Manager

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 : Bob Lee

LABORATORY RESULTS

Lab No. : 0710369-003A
Client ID. : 23388-003

Sample Information

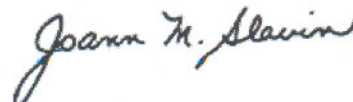
Type : Potable Water
Origin : Distribution
Routine

Federal ID : 5111891
Collected : 9/7/07 12:45:00 PM Point No : 109-19
Received : 9/7/07 3:10:00 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	N/A	Negative	M9223	09/08/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	09/08/2007 12:00 PM
Total Residual Chlorine	0.4		1	mg/L		M4500-Cl G	09/07/2007

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

Date Reported : 9/28/07



Laboratory Manager

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 : Bob Lee

LABORATORY RESULTS

Lab No. : 0710369-004A

Client ID. : 23388-004

Sample Information

Type : Potable Water
Origin : Distribution
Routine

Federal ID 5111891

Collected : 9/7/07 12:55:00 PM Point No : 045-12

Received : 9/7/07 3:10:00 PM Location : B-1005 RHIC

Collected By : CLIENT

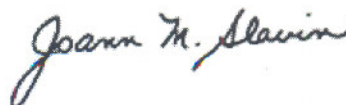
Copy : ORIGINAL

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	N/A	Negative	M9223	09/08/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	09/08/2007 12:00 PM
Total Residual Chlorine	0.5		1	mg/L		M4500-CI G	09/07/2007

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

Date Reported : 9/28/07



Laboratory Manager

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 : Bob Lee

LABORATORY RESULTS

Lab No. : 0710369-005A

Client ID. : 23388-005

Sample Information

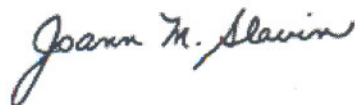
Type : Potable Water
Origin : Distribution
Routine

Federal ID : 5111891
Collected : 9/7/07 1:05:00 PM Point No : 054-187
Received : 9/7/07 3:10:00 PM Location : B-930 LINAC
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	N/A	Negative	M9223	09/08/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	09/08/2007 12:00 PM
Total Residual Chlorine	1.0		1	mg/L		M4500-Cl G	09/07/2007

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

Date Reported : 9/28/07



Laboratory Manager

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 : Bob Lee

Federal ID 5111891

Collected : 9/7/07 1:05:00 PM Point No : 084-70

Received : 9/7/07 3:10:00 PM Location : B-490 Outpatient Clinic

Collected By : CLIENT

Copy : ORIGINAL

CC

LABORATORY RESULTS

Lab No. : 0710369-006A

Client ID. : 23388-006

Sample Information

Type : Potable Water

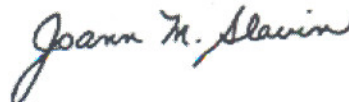
Origin : Distribution

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	N/A	Negative	M9223	09/08/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	09/08/2007 12:00 PM
Total Residual Chlorine	0.7		1	mg/L		M4500-Cl G	09/07/2007

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

Date Reported : 9/28/07



Laboratory Manager

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 : Bob Lee

LABORATORY RESULTS

Lab No. : 0710369-007A
Client ID. : 23388-007

Sample Information

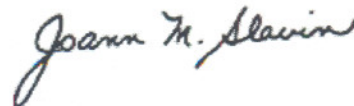
Type : Potable Water
Origin : Distribution
Routine

Federal ID : 5111891
Collected : 9/7/07 1:15:00 PM Point No : 084-67
Received : 9/7/07 3:10:00 PM Location : B-490 Block 11
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	N/A	Negative	M9223	09/08/2007 12:00 PM
E_Coliform	Absent		1	N/A	Absent	M9223	09/08/2007 12:00 PM
Total Residual Chlorine	0.4		1	mg/L		M4500-CI G	09/07/2007

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

Date Reported : 9/28/07



Laboratory Manager

ATTACHMENT IV
Brookhaven National Laboratory
Potable Water Supply
2007 Third Quarter Radiological Analyses
for the BNL Potable Water Wells

ATTACHMENT IV

Table 3
Summary of 2007 Third Quarter Radiological Analyses for the
BNL Potable Water Wells

Well ID	Sample Date	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	Tritium (pCi/L)	Sr-90 (pCi/L)
Well #4	8/14/07	< 1.1	< 2.0	< 370	< 0.66
Well # 6	8/14/07	< 1.0	< 2.1	< 370	< 0.64
Well # 7	8/14/07	< 1.2	< 1.8	< 370	< 0.75
Well #11	8/14/07	< 0.9	< 1.8	< 370	NA
Well #12	8/14/07	< 0.92	< 1.9	< 370	< 0.6
Well # 11 (Duplicate)	8/14/07	< 1.2	< 2.0	< 370	< 0.65

NA – Not Analyzed

NS – Not Sampled/Shutdown

* - The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.

Brookhaven National Labs

Client Sample ID: 24692-006

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7H160204-006
 Work Order: J41JW
 Matrix: WATER

Date Collected: 08/14/07 1340
 Date Received: 08/16/07 0930

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7236101	Yld %
Gross Alpha	0.06	U	0.44	2.00	1.1	08/24/07	08/27/07
Gross Beta	0.60	U	0.94	4.00	2.0	08/24/07	08/27/07
Gamma Cs-137 & Hits by EPA 901.1 MOD				pCi/L		Batch # 7241297	Yld %
Americium 241	-0.06	U	6.3	25.0	11	08/29/07	09/04/07
Beryllium 7	-2	U	31	60	57	08/29/07	09/04/07
Cesium 134	0.0	U	6.8	5.0	12	08/29/07	09/04/07
Cesium 137	0.0	U	7.0	12.0	12	08/29/07	09/04/07
Cobalt 57	1.3	U	2.5	5.0	40	08/29/07	09/04/07
Cobalt 60	-0.6	U	6.6	22.0	12	08/29/07	09/04/07
Europium 152	-19	U	56	84	98	08/29/07	09/04/07
Europium 154	-10	U	50	57	89	08/29/07	09/04/07
Europium 155	0.0	U	12	359	20	08/29/07	09/04/07
Manganese 54	1.7	U	4.8	6.0	8.5	08/29/07	09/04/07
Sodium 22	5.7	U	6.8	7.0	11	08/29/07	09/04/07
Zinc 65	2	U	12	15	21	08/29/07	09/04/07
SR-90 BY GFPC EPA-905 MOD				pCi/L		Batch # 7228458	Yld % 63
Strontium 90	0.33	U	0.40	0.80	0.66	08/16/07	08/24/07
TRITIUM (Distill) by EPA 906.0 MOD				pCi/L		Batch # 7237133	Yld %
Tritium	-20	U	150	500	370	08/25/07	08/27/07

Well #4

OTE (S)

ata are incomplete without the case narrative.

DC is determined by instrument performance only.
 old results are greater than the MDC

Result is less than the sample detection limit.

Brookhaven National Labs

Client Sample ID: 24692-003

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7H160204-003
 Work Order: J41JM
 Matrix: WATER

Date Collected: 08/14/07 1350
 Date Received: 08/16/07 0930

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7236101	Yld %
Gross Alpha	0.43	U	0.53	2.00	1.0	08/24/07	08/27/07
Gross Beta	-0.62	U	0.90	4.00	2.1	08/24/07	08/27/07
Gamma Cs-137 & Hits by EPA 901.1 MOD				pCi/L		Batch # 7241297	Yld %
Americium 241	9	U	11	25	17	08/29/07	09/04/07
Beryllium 7	6	U	31	60	55	08/29/07	09/04/07
Cesium 134	-0.3	U	4.5	5.0	8.2	08/29/07	09/04/07
Cesium 137	-0.07	U	5.0	12.0	9.2	08/29/07	09/04/07
Cobalt 57	0.09	U	2.7	5.0	49	08/29/07	09/04/07
Cobalt 60	0.0	U	8.9	22.0	16	08/29/07	09/04/07
Europium 152	11	U	35	84	63	08/29/07	09/04/07
Europium 154	-0.5	U	28	57	54	08/29/07	09/04/07
Europium 155	0.2	U	13	359	22	08/29/07	09/04/07
Manganese 54	1.1	U	4.9	6.0	8.7	08/29/07	09/04/07
Sodium 22	0.7	U	5.9	7.0	11	08/29/07	09/04/07
Zinc 65	-4	U	14	15	24	08/29/07	09/04/07
SR-90 BY GFPC EPA-905 MOD				pCi/L		Batch # 7228458	Yld % 70
Strontium 90	-0.09	U	0.37	0.80	0.64	08/16/07	08/24/07
TRITIUM (Distill) by EPA 906.0 MOD				pCi/L		Batch # 7237133	Yld %
Tritium	-90	U	200	500	370	08/25/07	08/27/07

Well #6

NOTE(S)

- ata are incomplete without the case narrative.
- MDC is determined by instrument performance only.
- old results are greater than the MDC
- Result is less than the sample detection limit.

Brookhaven National Labs

Client Sample ID: 24692-004

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7H160204-004
 Work Order: J41JN
 Matrix: WATER

Date Collected: 08/14/07 1400
 Date Received: 08/16/07 0930

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7236101	Yld %
Gross Alpha	0.38	U	0.58	2.00	1.2	08/24/07	08/27/07
Gross Beta	0.74	U	0.89	4.00	1.8	08/24/07	08/27/07
Gamma Cs-137 & Hits by EPA 901.1 MOD				pCi/L		Batch # 7241297	Yld %
Americium 241	-3	U	12	25	21	08/29/07	09/04/07
Beryllium 7	13	U	36	60	63	08/29/07	09/04/07
Cesium 134	-0.2	U	4.8	5.0	8.7	08/29/07	09/04/07
Cesium 137	-1.4	U	6.0	12.0	11	08/29/07	09/04/07
Cobalt 57	0.7	U	3.4	5.0	50	08/29/07	09/04/07
Cobalt 60	0.7	U	6.2	22.0	11	08/29/07	09/04/07
Europium 152	-4	U	32	84	60	08/29/07	09/04/07
Europium 154	3	U	45	57	83	08/29/07	09/04/07
Europium 155	2	U	12	359	21	08/29/07	09/04/07
Manganese 54	1.1	U	4.8	6.0	8.5	08/29/07	09/04/07
Sodium 22	0.1	U	7.1	7.0	13	08/29/07	09/04/07
Zinc 65	0.0	U	1.8	15.0	6.8	08/29/07	09/04/07
SR-90 BY GFPC EPA-905 MOD				pCi/L		Batch # 7228458	Yld % 59
Strontium 90	-0.05	U	0.43	0.80	0.75	08/16/07	08/24/07
TRITIUM (Distill) by EPA 906.0 MOD				pCi/L		Batch # 7237133	Yld %
Tritium	-130	U	210	500	370	08/25/07	08/27/07

Well #7

OTE(S)

ata are incomplete without the case narrative.

DC is determined by instrument performance only.
 old results are greater than the MDC

Result is less than the sample detection limit.

Brookhaven National Labs

Client Sample ID: 24692-002

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7H160204-002
 Work Order: J41JK
 Matrix: WATER

Date Collected: 08/14/07 1410
 Date Received: 08/16/07 0930

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900							
				pCi/L		Batch # 7236101	Yld %
Gross Alpha	0.50	U	0.51	2.00	0.90	08/24/07	08/27/07
Gross Beta	1.65	U	0.95	4.00	1.8	08/24/07	08/27/07
Gamma Cs-137 & Hits by EPA 901.1 MOD							
				pCi/L		Batch # 7241297	Yld %
Americium 241	3.7	U	6.2	25.0	10	08/29/07	09/04/07
Beryllium 7	0.09	U	37	60	68	08/29/07	09/04/07
Cesium 134	-0.1	U	4.8	5.0	8.7	08/29/07	09/04/07
Cesium 137	-0.02	U	4.7	12.0	8.7	08/29/07	09/04/07
Cobalt 57	0.4	U	2.0	5.0	31	08/29/07	09/04/07
Cobalt 60	0.0	U	9.9	22.0	18	08/29/07	09/04/07
Europium 152	-9	U	41	84	75	08/29/07	09/04/07
Europium 154	-12	U	45	57	81	08/29/07	09/04/07
Europium 155	-2	U	11	359	19	08/29/07	09/04/07
Manganese 54	1.1	U	4.7	6.0	8.4	08/29/07	09/04/07
Sodium 22	4.3	U	4.7	7.0	7.3	08/29/07	09/04/07
Zinc 65	-4	U	13	15	23	08/29/07	09/04/07
TRITIUM (Distill) by EPA 906.0 MOD							
				pCi/L		Batch # 7237133	Yld %
Tritium	-10	U	180	500	370	08/25/07	08/27/07

Well # 11

NOTE(S)

ata are incomplete without the case narrative.

DC is determined by instrument performance only.
 old results are greater than the MDC

Result is less than the sample detection limit.

Brookhaven National Labs

Client Sample ID: 24692-001

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7H160204-001
 Work Order: J41G7
 Matrix: WATER

Date Collected: 08/14/07 1420
 Date Received: 08/16/07 0930

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900				pCi/L		Batch # 7236101	Yld %
Gross Alpha	0.34	U	0.46	2.00	0.92	08/24/07	08/27/07
Gross Beta	1.67	U	0.97	4.00	1.9	08/24/07	08/27/07
Gamma Cs-137 & Hits by EPA 901.1 MOD				pCi/L		Batch # 7241297	Yld %
Americium 241	-4	U	13	25	23	08/29/07	09/05/07
Beryllium 7	5	U	33	60	59	08/29/07	09/05/07
Cesium 134	-1.2	U	5.2	5.0	9.2	08/29/07	09/05/07
Cesium 137	0.0	U	4.9	12.0	9.1	08/29/07	09/05/07
Cobalt 57	1.8	U	4.4	5.0	40	08/29/07	09/05/07
Cobalt 60	-2.0	U	7.1	22.0	13	08/29/07	09/05/07
Europium 152	0.9	U	39	84	73	08/29/07	09/05/07
Europium 154	-3	U	44	57	80	08/29/07	09/05/07
Europium 155	4	U	14	359	24	08/29/07	09/05/07
Manganese 54	0.3	U	5.0	6.0	9.1	08/29/07	09/05/07
Sodium 22	0.002	U	5.5	7.0	10	08/29/07	09/05/07
Zinc 65	-4	U	14	15	24	08/29/07	09/05/07
SR-90 BY GFPC EPA-905 MOD				pCi/L		Batch # 7228458	Yld % 64
Strontium 90	0.0	U	0.0	0.8	0.6	08/16/07	08/24/07
TRITIUM (Distill) by EPA 906.0 MOD				pCi/L		Batch # 7237133	Yld %
Tritium	-1	U	48	500	370	08/25/07	08/27/07

Well # 12

NOTE(S)

- ata are incomplete without the case narrative.
- DC is determined by instrument performance only.
- old results are greater than the MDC
- Result is less than the sample detection limit.

Brookhaven National Labs

Client Sample ID: 24692-005

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7H160204-005
 Work Order: J41JQ
 Matrix: WATER

Date Collected: 08/14/07 0000
 Date Received: 08/16/07 0930

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900							
				pCi/L		Batch # 7236101	Yld %
Gross Alpha	0.49	U	0.59	2.00	1.2	08/24/07	08/27/07
Gross Beta	1.46	U	0.99	4.00	2.0	08/24/07	08/27/07
Gamma Cs-137 & Hits by EPA 901.1 MOD							
				pCi/L		Batch # 7241297	Yld %
Americium 241	-2	U	19	25	12	08/29/07	09/04/07
Beryllium 7	19	U	30	60	50	08/29/07	09/04/07
Cesium 134	-0.05	U	3.6	5.0	6.4	08/29/07	09/04/07
Cesium 137	4.0	U	5.2	12.0	8.6	08/29/07	09/04/07
Cobalt 57	0.1	U	2.3	5.0	32	08/29/07	09/04/07
Cobalt 60	2.4	U	6.2	22.0	11	08/29/07	09/04/07
Europium 152	18	U	36	84	62	08/29/07	09/04/07
Europium 154	2	U	30	57	54	08/29/07	09/04/07
Europium 155	-0.6	U	7.8	359	13	08/29/07	09/04/07
Manganese 54	-1.4	U	4.6	6.0	7.9	08/29/07	09/04/07
Sodium 22	0.6	U	4.6	7.0	8.4	08/29/07	09/04/07
Zinc 65	0.0	U	17	15	30	08/29/07	09/04/07
SR-90 BY GFPC EPA-905 MOD							
				pCi/L		Batch # 7228458	Yld % 66
Strontium 90	0.1	U	0.39	0.80	0.65	08/16/07	08/24/07
TRITIUM (Distill) by EPA 906.0 MOD							
				pCi/L		Batch # 7237133	Yld %
Tritium	90	U	200	500	370	08/25/07	08/27/07

Well #11 (Duplicate)

OTE(S)

ata are incomplete without the case narrative.

DC is determined by instrument performance only.

old results are greater than the MDC

Result is less than the sample detection limit.