M. Allocco

Environmental and Waste Management Services

120 E. Fifth Ave., Bldg. 860
P. O. Box 5000
Upton, NY 11973-5000
Phone 631 344-4549
Fax 631 344-7334
goode@bnl.gov

BROOKHAVEN
NATIONAL LABORATORY

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

June 10, 2003

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

Dear Ms. Kathleen Newcomer:

Subject: Monthly Water Treatment Plant Reports
Reference: Suffolk County Minimum Monitoring Requirements for May 2003

In accordance with the requirements of the BNL Potable Water System Sampling Plan and the 2003 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 and Bacteriological Reports for May.
Attachment II:	May 2003 Biweekly Water Quality Monitoring Data for the BNL Potable Water Wells and the BNL Distribution System.
Attachment III:	2003 First and Second Quarter Radiological Reports for the BNL Potable Water Wells.
Attachment IV:	2003 Second Quarter Principal Organic Compound Analyses for the Potable Water Wells.

All analytical results have been reviewed and have been found to be within New York State Department of Health Drinking Water Standards (NYSDOH DWS). However, elevated Ra-226 concentrations (60.9 pCi/L, 79.7 % error) were noted in the sample collected from potable well #12 on January 10. The well was resampled on January 27 and the analysis resulted in no detection of Ra-226. Collection and analysis of these samples are

NSF
REGISTERED TO ISO 14001: 1996

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 documenttation is available from the Environmental Services Division and Plant Engineering Divisions. Based on this information, we believe the values contained in these reports are representative of the BNL potable water system.

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

Sincerely,

Robert Lee (for)

George A. Goode
Environmental & Waste Management Services
Division Manager

GAG/MA:car
Attachments: As noted

cc:	M. Allocco	w/attachments
	W. Chaloupka	w/attachments
	J. Granzen	w/attachments
	R. Lee	w/attachments
	E. Murphy	w/attachments
	P. Ponturo, SCDHS	w/o attachments
	L. Ross	w/o attachments
	J. Tarpinian	w/o attachments

File: EC61ER.03

ATTACHMENT I

Brookhaven National Laboratory
Potable Water Supply

Monthly Operational and Bacteriological Reports for May 2003
for the BNL Potable Water System

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MAY 2003

LOCATION: **Water Treatment Facility**

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

Source: Ground Water

Does the system have a chlorination waiver? YES ____ NO X

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	_ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	_ Sodium	Daily Totalizer
month	K Gals	200	per 24hrs	mg/l	Hydroxide	12852982
1	617	195	5	0.78	7.6	12853599
2	767	190	5	1.2	7.7	12854366
3	0					
4	0					
5	2,071	170	20	1.02	7.7	12856437
6	597	160	10	1.06	7.7	12857034
7	1,047	150	10	0.73	7.5	12858081
8	1,060	140+60	10	0.73	7.4	12859141
9	1,065	195	5	0.78	7.5	12860206
10	0					
11	0					
12	3,213	168	27	1	7.5	12863419
13	1,033	154	14	0.72	7.5	12864452
14	1,045	143	11	0.5	7.4	12865497
15	1,077	132+68	11	1	7.4	12866574
16	1,068	191	9	1.2	7.4	12867642
17	0					
18	0					
19	3,111	170	21	1.1	7.4	12870753
20	1,037	160	10	0.72	7.3	12871790
21	1,061	150	10	0.86	7.4	12872851
22	1,072	140+60	10	1	7.4	12873923
23	958	190	10	0.8	7.4	12874881
24	1,151	182	8	1	7.7	12876032
25	0					
26	0					
27	3,213	155	27	0.95	7.8	12879245
28	1,066	145	10	0.74	7.4	12880311
29	1,147	135	10	1	7.4	12881458
30	1,022	125	10	1.1	7.7	12882480
31	0					
TOT	29,498		263			
AVG.	951.55		8.48	No. Days:	31	

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES ____ NO X

If yes, check reason's below.

____ Actual number of samples fewer than required.

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

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES ____ NO X

If yes, check reason(s) below.

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

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

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

Reported by: [signature]

Date: 6-9-03

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MAY 2003

LOCATION: **WELL NO. 4**

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

Source: Ground Water

Does the system have a chlorination waiver? YES ____ NO X

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	_ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	_ Sodium	Daily Totalizer
month	K Gals	13S	per 24hrs	mg/l	Hydroxide	1562786
1	125	138	0	0.16	6	1562911
2	186	138+12	0	0.24	6	1563097
3	0					
4	0					
5	136	150	0	0.49	6.1	1563233
6	43	150	0	0.45	6	1563276
7	105	141	9	0.42	6	1563381
8	162	141	0	0.19	5.9	1563543
9	268	135	6	0.4	5.9	1563811
10	0					
11	0					
12	263	132	3	0.03	6	1564074
13	299	129	3	0.45	6.3	1564373
14	209	129	0	0.62	6.1	1564582
15	329	129	0	0.32	6	1564911
16	106	126	3	0.93	6.1	1565017
17	0					
18	0					
19	516	111	15	0.42	6	1565533
20	251	105	6	0.19	6.1	1565784
21	171	102	3	0.83	6.1	1565955
22	180	96	6	0.38	6.1	1566135
23	170	93	3	0.5	6	1566305
24	155	84	9	0.01	6.1	1566460
25	0					
26	0					
27	555	72+21	12	0.31	6.1	1567015
28	244	93	0	0.66	6.1	1567259
29	49	93	0	0.02	6.1	1567308
30	179	87	6	0.58	6	1567487
31	0					
TOT	4,701		84			
AVG.	151.65		2.71	No. Days:	31	

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 4

Does a M&AR violation exist? YES ____ NO X

If yes, check reason's below

____ Actual number of samples fewer than required.

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

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES ____ NO X

If yes, check reason(s) below.

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

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

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

Reported by: [signature]

Date: 6-7-03

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD:

LOCATION: WELL NO. 6

Source: Ground Water

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

Does the system have a chlorination waiver? YES ____ NO X

Day of month	CHLORINATION Treated Water K Gals	Liquid Sodium Hypochlorite Gallons 108	Cl2 use per 24hrs	Free Cl2 Residual mg/l	pH Lime Sodium Hydroxide	Totalizer Daily Totalizer 375927
1	206	102	6	0.16	6	376133
2	279	96+54	6	0.24	6	376412
3	0					
4	0					
5	531	132	18	0.49	6.1	376943
6	62	129	3	0.45	6	377005
7	436	117	12	0.42	6	377441
8	417	108+42	9	0.19	5.9	377858
9	543	134	16	0.4	5.9	378401
10	0					
11	0					
12	1.137	105	29	0.03	6	379538
13	975	78	27	0.45	6.3	380513
14	584	66	12	0.62	6.1	381097
15	539	51+99	15	0.32	6	381636
16	406	135	15	0.93	6.1	382042
17	0					
18	0					
19	1.307	108	27	0.42	6	383349
20	483	96	12	0.19	6.1	383832
21	449	84	12	0.83	6.1	384281
22	443	72+40	12	0.38	6.1	384724
23	435	102	10	0.5	6	385159
24	465	87	15	0.01	6.1	385624
25	0					
26	0					
27	1.307	57+93	30	0.31	6.1	386931
28	512	132	18	0.66	6.1	387443
29	413	121	11	0.02	6.1	387856
30	518	108	13	0.58	6	388374
31	0					
TOT	12.447		328			
AVG.	401.52		10.58	No. Days:	31	

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 4

Does a M&AR violation exist? YES ____ NO X

If yes, check reason's below

____ Actual number of samples fewer than required.

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

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES ____ NO X

If yes, check reason(s) below.

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

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

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

Reported by: [signature]

Date: 6-9-03

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MAY 2003

LOCATION: WELL NO. 7

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

Source: Ground Water

Does the system have a chlorination waiver? YES ____ NO X

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	_ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	_ Sodium	Daily Totalizer
month	K Gals	132	per 24hrs	mg/l	Hydroxide	1095627
1	725	120	12	0.16	6	1096352
2	896	105+45	15	0.24	6	1097248
3	0					
4	0					
5	2,905	102	48	0.49	6.1	1090153
6	831	90	12	0.45	6	1090984
7	1,226	70	21	0.42	6	1092210
8	1,267	102+48	22	0.19	5.9	1093477
9	1,154	136	14	0.4	5.9	1094631
10	0					
11	0					
12	3,689	69	67	0.03	6	1098320
13	385	66	3	0.45	6.3	1098705
14	1,064	48	18	0.62	6.1	1099769
15	1,177	27+123	21	0.32	6	1100946
16	1,283	132	18	0.93	6	1102229
17	0					
18	0					
19	3,711	72	60	0.42	6	1105940
20	1,373	54	18	0.19	6.1	1107313
21	1,110	36	18	0.83	6.1	1108423
22	1,245	18+132	18	0.38	6.1	1109668
23	1,071	135	15	0.5	6	1110739
24	1,105	120	15	0.01	6.1	1111844
25	0					
26	0					
27	3,716	81+69	39	0.31	6.1	1115560
28	1,241	126	24	0.66	6.1	1116801
29	1,364	104	22	0.02	6.1	1118165
30	1,227	84	20	0.58	6	1119392
31	0					
TOT	33,765		520			
AVG.	1089.19		16.77	No. Days:	31	

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES ____ NO X

If yes, check reason's below.

____ Actual number of samples fewer than required.

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

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES ____ NO X

If yes, check reason(s) below.

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

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

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

Reported by: [signature]

Date: 6-7-03

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MAY 2003

LOCATION: **WELL NO. 10**

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

Source: Ground Water

Does the system have a chlorination waiver? YES ____ NO X

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	__ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	__ Sodium	Daily Totalizer
month	K Gals	30	per 24hrs	mg/l	Hydroxide	764819
1	0	30	0	NR	NR	764819
2	0	30	0	NR	NR	764819
3	0					
4	0					
5	0	30	0	NR	NR	764819
6	0	30	0	NR	NR	764819
7	0	30	0	NR	NR	764819
8	0	30	0	NR	NR	764819
9	0	30	0	NR	NR	764819
10	0					
11	0					
12	0	30	0	NR	NR	764819
13	0	30	0	NR	NR	764819
14	0	30	0	NR	NR	764819
15	0	30	0	NR	NR	764819
16	0	30	0	NR	NR	764819
17	0					
18	0					
19	0	30	0	NR	NR	764819
20	0	30	0	NR	NR	764819
21	0	30	0	NR	NR	764819
22	0	30	0	NR	NR	764819
23	0	30	0	NR	NR	764819
24	0	30	0	NR	NR	764819
25	0					
26	0					
27	0	30	0	NR	NR	764819
28	0	30	0	NR	NR	764819
29	0	30	0	NR	NR	764819
30	0	30	0	NR	NR	764819
31	0					
TOT	0		0			
AVG.	0.00		0.00	No. Days:	31	

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES ____ NO X

If yes, check reason's below

____ Actual number of samples fewer than required.

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

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES ____ NO X

If yes, check reason(s) below.

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

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

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

Reported by: [signature]

Date: 6-9-03

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MAY 2003

LOCATION: **WELL NO. 11**

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

Source: Ground Water

Does the system have a chlorination waiver? YES ____ NO X

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	Sodium	Daily Totalizer
month	K Gals	129	per 24hrs	mg/l	Hydroxide	486920
1	983	120	9	0.81	6.4	487903
2	1,174	111	9	0.79	6.8	489077
3	0					
4	0					
5	3,276	84	27	0.52	6.8	492353
6	937	75	9	0.42	6.8	493290
7	3	75	0	NR	NR	493293
8	0	75+75	0	0.5	6.8	493293
9	0	150	0	0.41	7.2	493293
10	0					
11	0					
12	31	150	0	NR	NR	493324
13	252	150	0	0.81	6.4	493576
14	28	150	0	NR	NR	493604
15	8	150	0	0.13	6.1	493612
16	193	144	6	NR	NR	493805
17	0					
18	0					
19	0	144	0	NR	NR	493805
20	0	143	1	0.25	6.6	493805
21	2	143	0	0.58	7	493807
22	0	143	1	0.35	7.2	493807
23	0	138	5	NR	NR	493807
24	0	134	4	0.7	6.9	493807
25	0					
26	0					
27	0	134	0	0.75	6.5	493807
28	0	134	0	0.83	6	493807
29	0	134	0	NR	NR	493807
30	0	134	0	NR	NR	493807
31	0					
TOT	6,887		71			
AVG.	222.16		2.29	No. Days:	31	

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES ____ NO X

If yes, check reason's below.

____ Actual number of samples fewer than required.

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

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES ____ NO X

If yes, check reason(s) below.

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

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

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

Reported by: J.C. Rossi

Date: 6-9-03

Title: Water Systems Supervisor

Certification No. NY0031941

BROOKHAVEN NATIONAL LABORATORY

WATER SYSTEMS OPERATION REPORT

PUBLIC WATER SUPPLY PROTECTION

PROGRAM CODE 169	STATION 11515100	SUFFOLK COUNTY	REPORTING PERIOD: MAY 2003

LOCATION: **WELL NO. 12**

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

Source: Ground Water

Does the system have a chlorination waiver? YES ____ NO X

	CHLORINATION				pH	
	Treated	Liquid Sodium Hypochlorite		Free Cl2	__ Lime	Totalizer
Day of	Water	Gallons	Cl2 use	Residual	__ Sodium	Daily Totalizer
month	K Gals	138	per 24hrs	mg/l	Hydroxide	637847
1	0	138	0	0.64	6.8	637847
2	46	138	0	0.65	6.8	637893
3	0					
4	0					
5	2	135	3	0.66	NR	637895
6	4	135	0	0.5	7.1	637899
7	15	132	3	0.78	7.2	637914
8	526	129	3	0.65	7.4	638440
9	202	129	0	0.6	7.1	638642
10	0					
11	0					
12	198	126	3	NR	NR	638840
13	290	126	0	0.55	7.4	639130
14	11	123	3	NR	NR	639141
15	218	123	0	0.6	6.9	639359
16	104	120	3	NR	NR	639463
17	0					
18	0					
19	0	123	0	NR	NR	639463
20	0	123	0	0.73	7.2	639463
21	277	120	3	0.6	7.6	639740
22	0	120	0	0.72	7.5	639740
23	0	120	0	NR	NR	639740
24	0	120	0	0.56	7.3	639740
25	0					
26	0					
27	0	120	0	0.98	6.9	639740
28	0	117	3	1	6.2	639740
29	0	110	0	NR	NR	639740
30	651	105	5	0.5	6.4	640391
31	0					
TOT	2,544		29			
AVG.	82.06		0.94	No. Days:	31	

Population Served 3,500

Number of routine samples 4

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

Number of actual routine samples 7

Does a M&AR violation exist? YES ____ NO X

If yes, check reason's below.

____ Actual number of samples fewer than required.

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

____ Failure to analyze repeat samples.

Does an MCL violation exist? YES ____ NO X

If yes, check reason(s) below.

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

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

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

Reported by: [signature]

Date: 6-9-03

Title: Water Systems Supervisor

Certification No. NY0031941

5/30/03
Pump Data

MONTHLY GALLONAGE REPORT
MAY 2003.xls

Date	Well 4	Well 6	Well 7	Well10	Well11	Well12	Daily Total
1	125	206	725	0	983	0	2,039
2	186	279	896	0	1,174	46	2,581
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	136	531	2,905	0	3,276	2	6,850
6	43	62	831	0	937	4	1,877
7	105	436	1,226	0	3	15	1,785
8	162	417	1,267	0	0	526	2,372
9	268	543	1,154	0	0	202	2,167
10	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0
12	263	1,137	3,689	0	31	198	5,318
13	299	975	385	0	252	290	2,201
14	209	584	1,064	0	28	11	1,896
15	329	539	1,177	0	8	218	2,271
16	106	406	1,283	0	193	104	2,092
17	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0
19	516	1,307	3,711	0	0	0	5,534
20	251	483	1,373	0	0	0	2,107
21	171	449	1,110	0	2	277	2,009
22	180	443	1,245	0	0	0	1,868
23	170	435	1,071	0	0	0	1,676
24	155	465	1,105	0	0	0	1,725
25	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0
27	555	1,307	3,716	0	0	0	5,578
28	244	512	1,241	0	0	0	1,997
29	49	413	1,364	0	0	0	1,826
30	179	518	1,227	0	0	651	2,575
31	0	0	0	0	0	0	0
Total	4,701	12,447	33,765	0	6,887	2,544	60,344

	Totalizer This Month	Totalizer Last Month	Total(x1,000) Gallons
Well 4	1,567,487	1,562,786	4,701
Well 6	388,374	375,927	12,447
Well 7	1,119,392	1,085,627	33,765
Well 10	764,819	764,819	0
Well 11	493,807	486,920	6,887
Well 12	640,391	637,847	2,544
AGS Water Supply Meter	467,453	458,954	8499.00
Medical Reactor - Well 105			0.00
Biology Building - Well 9	6,751,750	6,743,710	8.04

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 : S. Scarpitta

Lab No. : **0305222-001A**

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

Federal ID 5111891
Collected : 5/8/03 8:25:00 AM
Received : 5/8/03 3:40:00 PM
Collected By : CLIENT
Copy : **Original**
CC

Point No : 094-273
Location : B-49 Water Tower

Client ID. : 16029-001

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	0.9	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : **0305222-002A**

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

Federal ID 5111891
Client ID. : 16029-002
Collected : 5/8/03 8:35:00 AM
Point No : 076-408
Received : 5/8/03 3:40:00 PM
Location : B-640 Water Tower
Collected By : CLIENT
Copy : **Original**
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	1.0	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : **0305222-003A**

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

Federal ID 5111891
Client ID. : 16029-003
Collected : 5/8/03 8:45:00 AM
Point No : 045-12
Received : 5/8/03 3:40:00 PM
Location : B-1005 RHIC
Collected By : CLIENT
Copy : **Original**
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	0.5	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : **0305222-004A**

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

Federal ID 5111891
Client ID. : 16029-004
Collected : 5/8/03 9:05:00 AM
Point No : 109-19
Received : 5/8/03 3:40:00 PM
Location : B-363 Apt.Laundry
Collected By : CLIENT
Copy : **Original**
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	0.6	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : 0305222-005A

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

Federal ID 5111891
Client ID. : 16029-005
Collected : 5/8/03 8:55:00 AM
Point No : 054-187
Received : 5/8/03 3:40:00 PM
Location : B-930 LINAC
Collected By : CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	0.8	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : 0305222-006A

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

Federal ID 5111891
Client ID. : 16029-006
Collected : 5/8/03 10:15:00 AM
Point No : 084-70
Received : 5/8/03 3:40:00 PM
Location : B-490 Outpatient Clinic
Collected By : CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	0.9	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : 0305222-007A

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

Federal ID 5111891
Client ID. : 16029-007
Collected : 5/8/03 10:30:00 AM
Point No : 084-67
Received : 5/8/03 3:40:00 PM
Location : B-490 Block 11
Collected By : CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	0.3	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : **0305222-008A**

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

Federal ID 5111891
Collected : 5/8/03 8:35:00 AM
Received : 5/8/03 3:40:00 PM
Collected By : CLIENT
Copy : **Original**
CC

Point No : 076-408
Location : B-640 Water Tower

Client ID. : 16029-008

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Total Coliform	Negative		Negative	M9223	5/8/03 5:00:00 PM
E_Coliform	Absent		Absent	M9223	5/8/03 5:00:00 PM
Total Residual Chlorine	1.0	mg/L		M4500-Cl G	5/8/03

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

Date Reported : 5/12/03

Joann M. Slavin
Laboratory Manager

ATTACHMENT II

Brookhaven National Laboratory
Potable Water Supply

May 2003 Biweekly Water Quality Monitoring Data for the BNL Potable Water Wells and the BNL Distribution System

Attachment II
Table 1 - Summary of Water Quality Analyses
for the BNL Potable Water System
May 2003

Sample Location	Sample Date	pH (SU)	Temperature (Degrees F)	Conductivity (µmhos)	Alkalinity (mg/L)	Calcium (mg/L)
WTP	5/1/03	7.6	56	239	NR	NR
WTP	5/6/03	7.7	56	149	NR	NR
WTP	5/8/03	7.4	56	256	NR	NR
WTP	5/13/03	7.5	58	188	NR	NR
WTP	5/15/03	7.4	54	181	NR	NR
WTP	5/20/03	7.3	55	225	NR	NR
WTP	5/22/03	7.4	57	275	NR	NR
WTP	5/27/03	7.8	55	150	NR	NR
WTP	5/29/03	7.4	57	246	NR	NR
Well 11	5/1/03	6.4	55	170	NR	NR
Well 11	5/6/03	6.8	55	176	NR	NR
Well 11	5/8/03	6.8	55	184	NR	NR
Well 11	5/13/03	6.4	56	234	NR	NR
Well 11	5/15/03	6.1	55	142	NR	NR
Well 11	5/20/03	6.6	55	240	NR	NR
Well 11	5/22/03	7.2	55	182	NR	NR
Well 11	5/27/03	6.5	55	156	NR	NR
Well 11	5/29/03	7.2	55	154	NR	NR
Well 12	5/1/03	6.8	56	240	NR	NR
Well 12	5/6/03	7.1	56	224	NR	NR
Well 12	5/8/03	7.4	56	256	NR	NR
Well 12	5/13/03	7.4	55	230	NR	NR
Well 12	5/15/03	6.9	55	156	NR	NR
Well 12	5/20/03	7.2	55	182	NR	NR
Well 12	5/22/03	7.5	55	245	NR	NR
Well 12	5/27/03	6.6	56	218	NR	NR
Well 12	5/29/03	7.2	55	152	NR	NR

NR - Analysis Not Required or Not Reported
WTP – Water Treatment Plant **Note:**
Field parameters are only conducted for facilities that are in operation on the day of measurement.

ATTACHMENT III

Brookhaven National Laboratory
Potable Water Supply

2003 First and Second Quarter Radiological Reports for the BNL Potable Water Wells

ATTACHMENT III
Table 2
Brookhaven National Laboratory
Potable Water Supply

Summary of Radiological Results for the BNL Potable Water Wells 2003 First and Second Quarter Monitoring Results					
Well ID	**Sample Date**	**Gross Alpha pCi/L**	**Gross Beta pCi/L**	**Tritium pCi/L**	**Sr-90**
Well # 4	1/10/03	0.90	< 1.69	< 331	< 0.44
Well # 6	1/10/03	2.11	2.70	< 331	< 0.34
Well # 7	1/10/03	2.08	< 1.69	< 331	< 0.48
Well # 11	1/10/03	1.31	< 1.62	< 331	< 0.37
Well #12	1/10/03	2.16	2.41	< 331	< 0.20
Well #4 (Duplicate)	1/10/03	1.25	2.62	< 331	< 0.30
Well #12 Resampling	1/27/03	< 0.54	< 1.31	< 395	NS
Well # 4	4/23/03	< 0.55	< 1.98	< 363	< 0.44
Well # 6	4/23/03	0.78	< 1.98	< 363	< 0.49
Well # 7	4/23/03	1.75	< 1.98	< 363	< 0.64
Well # 11	4/23/03	0.85	< 1.98	< 363	< 0.48
Well #12	4/23/03	< 0.55	< 1.98	< 363	< 0.48
Well #11 (Duplicate)	4/23/03	< 0.46	< 1.31	< 363	< 0.60

NS – Not sampled for this parameter

ASL Prefix No.
23011006

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION

SAMPLING CHAIN OF CUSTODY

Chain of Custody No.
15853

No. of Pages: 1

Requires EDD [X]
DOL _____

Carrier/Waybill #: _____
P.O. #: _____

Analysis Requested By			Sampling Contractor		Analytical Laboratory	
Name:	B Lee		Name:	ESD Field Sampling	Name:	ASL
Life No.	20222	Ext. 3148	Contact		Address:	
Acct. No.	07089	Dept. ES	Phone:		City:	St: Zip:
Email Reports to:			Email / Fax:		Contact:	
1.	B Lee		Sampler:	L Lettieri	Phone:	
2					Email/Fax:	
Project Name			Project Manager		Field Engineer	
	Potables Wells			B Lee		

COMMENTS

Type				Sample Information							Container				Analysis Requested									
L.I.D.	U.I.D.	Smp	Col	Site I.D - Bldg. - Life #	Depth - RWP	Date	Time	Matrix	Description		Vol. / Units	Type	No.	Preservative	Alpha / Beta	Tritium	Gamma	Strontium	524.2	624	Nuclide Specific Alpha	PCB'x	Metals	
01		001	e	G	056-401	92-137	01/10/03	1412	W	Well #12		4.25 L		2		X	X	X						
02		002	e	G	056-400	93-142	01/10/03	1408	W	Well #11		4.25 L		2		X	X	X						
03		003	e	G	093-400	98-150	01/10/03	1350	W	Well #6		4.25 L		2		X	X	X						
04		004	e	G	092-400	99-150	01/10/03	1355	W	Well #7		4.25 L		2		X	X	X						
05		005	e	G	BD-1		01/10/03		W	BD-1 - Well #4 - duplicate		4.25 L		2		X	X	X						
06		006	e	G	083-400	95-147	01/10/03	1340	W	Well #4		4.25 L		2		X	X	X						

1. Relinquished by / Date / Time	2. Relinquished by / Date / Time	3. Relinquished by / Date / Time	Contractor Lab Sample Disposal
Signature: L Lettieri	Signature:	Signature:	Return to Client: ___ Disposal by lab: ___
Date / Time: 01/10/03 1510	Date / Time:	Date / Time:	Archive for ___ Months
1. Received by / Date / Time	**2. Received by / Date / Time**	**3. Received by / Date / Time**	**Turn Around Time Required:**
Signature: P Heotis	Signature:	Signature:	Rush 1 Day: ___ 14 Days ___ 30 Days ___
Date / Time: 01/10/03 1515	Date / Time:	Date / Time:	7 Days: ___ Other: ___ Days

SL I I: ix NO.
23011006

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION
Analytical Services Laboratory

RADIOLOGICAL REPORT

Reviewed by: Robert R. Gaschott

1/27/03
1/31/03
2/19/03

	SAMPLE I.D. NUMBER	ALPHA uCi/mL	ALPHA Error	BETA uCi/mL	BETA Error	TRITIUM uCi/mL	TRITIUM Error	MDL - uCi/mL Alpha	MDL - uCi/mL Beta	MDL - uCi/mL Tritium
ected ta	~~01~~	~~4.37E-08~~	~~2.33E-09~~	~~3.32E-08~~	~~2.05E-09~~	~~-9.05E-08~~	~~1.98E-07~~	~~6.82E-10~~	~~1.69E-09~~	~~3.31E-07~~
aunts elow	~~02~~	~~9.51E-09~~	~~1.13E-09~~	~~7.56E-09~~	~~1.31E-09~~	~~-2.70E-08~~	~~1.97E-07~~	~~6.82E-10~~	~~1.69E-09~~	~~3.31E-07~~
	03	2.11E-09	6.12E-10	2.70E-09	1.11E-09	-5.76E-08	1.97E-07	6.82E-10	1.69E-09	3.31E-07
	04	2.08E-09	6.08E-10	1.10E-09	1.04E-09	-7.81E-08	1.98E-07	6.82E-10	1.69E-09	3.31E-07
	05	1.25E-09	5.25E-10	2.62E-09	1.11E-09	-4.92E-08	1.98E-07	6.82E-10	1.69E-09	3.31E-07
	06	9.02E-10	4.84E-10	4.12E-10	1.01E-09	-2.55E-07	1.87E-07	6.82E-10	1.69E-09	3.31E-07
cial → esult	01t	2.16E-09	5.80E-10	2.41E-09	9.02E-10			5.35E-10	1.31E-09	
	01tt	1.50E-09	5.06E-10	2.53E-09	9.08E-10			5.35E-10	1.31E-09	
	02t	5.88E-10	3.47E-10	1.45E-09	1.02E-09			4.79E-10	1.62E-09	
icial esult →	02tt	1.31E-09	4.54E-10	1.10E-09	9.99E-10			4.79E-10	1.62E-09	

ASL Prefix No.
23011006

Brookhaven National Laboratory
Radiological Control Division
Analytical Services Laboratory

GAMMA RESULTS

Reviewed by: Robert R. Gaschott 1/23/03

gh
Suit
resampled
1/27/03

Sample I.D.	Nuclide Name	Activity uCi/mL	2-Sigma % Error
01	RA-226	6.09E-08	79.73
02	PB-214	3.93E-09	75.85
03	There are no nuclides meeting summary criteria		
04	K-40	3.10E-08	85.59
	PB-214	6.35E-09	54.02
05	There are no nuclides meeting summary criteria		
06	There are no nuclides meeting summary criteria		

ASL Prefix No.
23012704

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION

SAMPLING CHAIN OF CUSTODY

Chain of Custody No.
15901

No. of Pages: 1

Requires EDD [X]
DQL _____

Carrier/Waybill #: _____
P.O. #: _____

Analysis Requested By			Sampling Contractor		Analytical Laboratory		
Name:	B Lee		Name:	ESD	Name:	ASL	
Life No.	20222	Ext. 3148	Contact		Address:		
Acct. No.	07089	Dept. ES	Phone:		City:	St:	Zip:
Email Reports to:			Email / Fax:		Contact:		
1.	B Lee		Sampler:	L Lettieri	Phone:		
2					Email/Fax:		
Project Name			Project Manager		Field Engineer		
	Potable Wells			B Lee			

COMMENTS
RUSH - 1 DAY

Type					Sample Information						Container				Analysis Requested									
L.I.D.		U.I.D.	Smp	Col	Site I.D - Bldg. - Life #	Depth - RWP	Date	Time	Matrix	Description	Vol. / Units	Type	No.	Preservative	Alpha / Beta	Tritium	Gamma	Strontium	524.2	624	Nuclide Specific Alpha	PCB'x	Metals	
01		001	e	G	056-401	92 - 137	1/27/2003	1415	W	Well #12	4.25 L		2		X	X	X							

1. Relinquished by / Date / Time	2. Relinquished by / Date / Time	3. Relinquished by / Date / Time	Contractor Lab Sample Disposal
Signature: L Lettieri	Signature:	Signature:	Return to Client: ___ Disposal by lab: ___
Date / Time: 1/27/2003 1425	Date / Time:	Date / Time:	Archive for ___ Months
1. Received by / Date / Time	**2. Received by / Date / Time**	**3. Received by / Date / Time**	**Turn Around Time Required:**
Signature: V Lettieri	Signature:	Signature:	Rush 1 Day: X 14 Days ___ 30 Days ___
Date / Time: 1/27/2003 1425	Date / Time:	Date / Time:	7 Days: ___ Other: ___ Days

ASL Prefix No.
23012704

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION
Analytical Services Laboratory

RADIOLOGICAL REPORT

Reviewed by: Robert R. Gaschott 1/31/03

SAMPLE I.D. NUMBER	ALPHA uCi/mL	ALPHA Error	BETA uCi/mL	BETA Error	TRITIUM uCi/mL	TRITIUM Error	MDL - uCi/mL Alpha	Beta	Tritium
01	3.53E-10	3.36E-10	1.14E-09	8.26E-10	3.45E-08	2.30E-07	5.35E-10	1.31E-09	3.95E-07

ASL Prefix No.
23012704

Brookhaven National Laboratory
Radiological Control Division
Analytical Services Laboratory

GAMMA RESULTS

Reviewed by: Robert R. Gaschott 1/31/03

Sample I.D.	Nuclide Name	Activity uCi/mL	2-Sigma % Error
01	BI-214	2.69E-08	17.24
	PB-214	1.90E-08	23.32

ASL Prefix No.
23042308

BROOKHAVEN NATIONAL LABORATORY

RADIOLOGICAL CONTROL DIVISION

SAMPLING CHAIN OF CUSTODY

Chain of Custody No.
16376

No. of Pages: 1

Requires EDD [X]

DQL

Carrier/Waybill #:

P.O. #:

Analysis Requested By			Sampling Contractor		Analytical Laboratory	
Name:	B Lee		Name:	EWMSD Field Sampling	Name:	ASL
Life No.	20222	Ext. 3148	Contact		Address:	
Acct. No.	07089	Dept. ES	Phone:		City:	St: Zip:
Email Reports to:			Email / Fax:		Contact:	
1.	B Lee		Sampler:	R Metz L Lettieri	Phone:	
2				Carlee Ogeka	Email/Fax:	
Project Name			Project Manager		Field Engineer	
	Potable Wells					

COMMENTS

Type					Sample Information						Container				Analysis Requested									
L.I.D.		U.I.D.	Smp	Col	Site I.D - Bldg. - Life #	Depth - RWP	Date	Time	Matrix	Description	Vol. / Units	Type	No.	Preservative	Alpha / Beta	Tritium	Gamma	Strontium	524.2	624	Nuclide Specific Alpha	PCB's	Metals	
01		001	e	G	Well 11	93-142	4/23/2003	1030	W	Ground Water	4.250 L		2		X	X	X							
02		002	e	G	Well 12	92-137	4/23/2003	1040	W	Ground Water	4.250 L		2		X	X	X							
03		003	e	G	Well 4	95-147	4/23/2003	1048	W	Ground Water	4.250 L		2		X	X	X							
04		004	e	G	Well 6	98-150	4/23/2003	1100	W	Ground Water	4.250 L		2		X	X	X							
05		005	e	G	BD-1 -- Well#11 duplicate		4/23/2003		W	Ground Water	4.250 L		2		X	X	X							
06		006	e	G	Well 7	99-150	4/23/2003	1112	W	Ground Water	4.250 L		2		X	X	X							

1. Relinquished by / Date / Time		2. Relinquished by / Date / Time	3. Relinquished by / Date / Time	Contractor Lab Sample Disposal
Signature:	R Metz	Signature:	Signature:	Return to Client: ___ Disposal by lab: ___
Date / Time:	4/23/2003 1348	Date / Time:	Date / Time:	Archive for ___ Months
1. Received by / Date / Time		2. Received by / Date / Time	3. Received by / Date / Time	Turn Around Time Required:
Signature:	K M Clifford	Signature:	Signature:	Rush 1 Day: ___ 14 Days ___ 30 Days X
Date / Time:	4/23/2003 1350	Date / Time:	Date / Time:	7 Days: ___ Other: ___ Days

ASL Prefix No.
23042308

BROOKHAVEN NATIONAL LABORATORY
RADIOLOGICAL CONTROL DIVISION
Analytical Services Laboratory

RADIOLOGICAL REPORT

Reviewed by: Robert R. Gaschott 5/5/03
5/27/03

SAMPLE I.D. NUMBER	ALPHA uCi/mL	ALPHA Error	BETA uCi/mL	BETA Error	TRITIUM uCi/mL	TRITIUM Error	MDL - uCi/mL Alpha	Beta	Tritium
01	8.51E-10	4.15E-10	-1.08E-09	1.12E-09	-3.58E-08	2.48E-07	5.46E-10	1.98E-09	3.63E-07
02	2.65E-11	2.78E-10	-1.32E-09	1.11E-09	-1.68E-07	2.41E-07	5.46E-10	1.98E-09	3.63E-07
03	2.94E-11	2.78E-10	-1.83E-09	1.09E-09	5.74E-08	2.54E-07	5.46E-10	1.98E-09	3.63E-07
04	7.76E-10	4.02E-10	-1.14E-09	1.12E-09	-1.64E-07	2.34E-07	5.46E-10	1.98E-09	3.63E-07
~~05~~	~~4.79E-09~~	~~7.95E-10~~	~~-1.67E-09~~	~~1.09E-09~~	~~-1.10E-07~~	~~2.42E-07~~	~~5.46E-10~~	~~1.98E-09~~	~~3.63E-07~~
06	1.75E-09	5.21E-10	4.46E-10	1.18E-09	-1.86E-08	1.91E-07	5.46E-10	1.98E-09	2.76E-07
05t	-2.73E-13	2.18E-10	7.21E-10	8.01E-10			4.63E-10	1.31E-09	
05tt	2.85E-10	2.88E-10	1.10E-09	8.25E-10			4.63E-10	1.31E-09	

ejected data
e recount
below

icial
uts. →

ASL Prefix No.
23042308

Brookhaven National Laboratory
Radiological Control Division
Analytical Services Laboratory

GAMMA RESULTS

Reviewed by: Robert R. Gaschott 5/7/03

Sample I.D.	Nuclide Name	Activity uCi/mL	2-Sigma % Error
01	K-40	4.64E-08	58.65
02	PB-214	5.84E-09	56.05
03	PB-214	6.95E-09	40.89
04	BI-214	9.89E-09	28.80
	PB-214	9.16E-09	34.17
05	There are no nuclides meeting summary criteria		
06	K-40	4.35E-08	62.24

ASL Prefix No. 23011007

Page 1 of 1

BROOKHAVEN NATIONAL LABORATORY

Carrier/Waybill # _____

P.O. # _____

Chain of Custody No. 15854

Requires EDD ☒ DQL ____

SAMPLING CHAIN OF CUSTODY

Name: B Lee	Name: ESD Field Sampling	Name: GEL
Life No: 20222 Ext. 3148	Contact:	Address:
Acct. No: 07089 Dept: ES	Phone:	City: St: Zip:
Email Reports To:	Email/Fax:	Contact:
1 B Lee	Sampler: L Lettieri	Phone:
2		Email/Fax:
Potable Wells	B Lee	

Comments: 73303%

LID	Sep	Cont	Site ID/Bldg/Life #	Depth/RWP	Date	Time	Matrix	Name/Description	Cont Vol/Units	Cont Type	# of Cont	Preservative	Alpha/Beta	Tritium	Gamma	Strontium (EPA 905)	524.2	624	Nuclide-specific Alpha	PCBs	Metals
001	e	G	056-401	92-137	1/10/02	1412	w	well #12	4l	P	1	HNO3				X					
002	e	G	056-400	93-142	1/10/02	1408	w	well #11	4l	P	1	HNO3				X					
003	e	G	093-400	98-150	1/10/02	1350	w	well #6	4l	P	1	HNO3				X					
004	e	G	092-400	99-150	1/10/02	1355	w	well #7	4l	P	1	HNO3				X					
005	e	G	BD-1	—	1/10/02	—	w	BD-1	4l	P	1	HNO3				X					
006	e	G	083-400	95-147	1/10/02	1340	w	well #4	4l	P	1	HNO3				X					

Print L Lettieri 1/13/03 0800	2 Relinquished By/Date/Time	
Signature	Print	Print
	Signature	Signature
Print Julie Robinson 1/14/03 0900	2 Received By/Date/Time	
Signature J Robinson	Print	Print
	Signature	Signature

RECEIVED By [illegible] DATE 6-10-03

Contractor Lab Sample Disposal:
☐ Return To Client ☐ Disposal by Lab
☐ Archive For ____ Months

Data Package: ☐ Full ☐ Summary

Turn-Around Time Required:
☐ Rush (1 Day) ☐ 14 Days ☐ 30 Days
☐ 7 Days ☐ Other ( )

BNL F 3101C

Distribution WHITE (1) - Stays with Sample; PINK (2) - Lab or Other GREEN (3) - Returned to Client with Report GOLDENROD (4) - Field Copy - (Sampler)

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: February 12, 2003

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Client Sample ID: 15854-006
Sample ID: 73303006
Matrix: Water
Collect Date: 10-JAN-03 13:40
Receive Date: 14-JAN-03 09:00
Collector: Client

Project: BRKL00101
Client ID: BRKL002
COC: 23011007/15854
Samp Recv.: 23011007/15854
Client Desc.: 083-400

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	0.147	+/-0.206	0.442	1.00	pCi/L		LAG1 01/31/03	2148	229804	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #4

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: February 12, 2003

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID:	15854-005	Project:	BRKL00101
Sample ID:	73303005	Client ID:	BRKL002
Matrix:	Water	COC:	23011007/15854
Collect Date:	10-JAN-03 12:00	Samp Recv.:	23011007/15854
Receive Date:	14-JAN-03 09:00	Client Desc.:	BD-1
Collector:	Client		

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	0.175	+/-0.153	0.301	1.00	pCi/L		LAG1 01/31/03	2148	229804	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1.	EPA 905.0 Modified	

Potable Well #54 1-10-03
Duplicate

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

M. Moore
Reviewed by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: February 12, 2003

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID:	15854-003	Project:	BRKL00101
Sample ID:	73303003	Client ID:	BRKL002
Matrix:	Water	COC:	23011007/15854
Collect Date:	10-JAN-03 13:50	Samp Recv.:	23011007/15854
Receive Date:	14-JAN-03 09:00	Client Desc.:	093-400
Collector:	Client		

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	0.00763	+/-0.140	0.338	1.00	pCi/L		LAG1 01/31/03	2147	229804	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #6

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: February 12, 2003

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID:	15854-004	Project:	BRKL00101
Sample ID:	73303004	Client ID:	BRKL002
Matrix:	Water	COC:	23011007/15854
Collect Date:	10-JAN-03 13:55	Samp Recv.:	23011007/15854
Receive Date:	14-JAN-03 09:00	Client Desc.:	092-400
Collector:	Client		

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	-0.133	+/-0.173	0.482	1.00	pCi/L		LAG1 01/31/03	2147	229804	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Notes:
The Qualifiers in this report are defined as follows :

Potable Well #7

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: February 12, 2003

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID:	15854-002	Project:	BRKL00101
Sample ID:	73303002	Client ID:	BRKL002
Matrix:	Water	COC:	23011007/15854
Collect Date:	10-JAN-03 14:08	Samp Recv.:	23011007/15854
Receive Date:	14-JAN-03 09:00	Client Desc.:	056-400
Collector:	Client		

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	0.270	+/-0.194	0.368	1.00	pCi/L		LAG1 01/31/03	2147	229804	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #11

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

M. Moore
Reviewed by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : Bell Avenue and Building 490
Upton, New York 11973

Report Date: February 12, 2003

Contact: Sal Scarpitta
Project: ESD Contract w/EDD

Page 1 of 1

Client Sample ID:	15854-001	Project:	BRKL00101
Sample ID:	73303001	Client ID:	BRKL002
Matrix:	Water	COC:	23011007/15854
Collect Date:	10-JAN-03 14:12	Samp Recv.:	23011007/15854
Receive Date:	14-JAN-03 09:00	Client Desc.:	056-401
Collector:	Client		

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	0.111	+/-0.102	0.201	1.00	pCi/L		LAG1 01/31/03	2146	229804	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

-stable Well #12

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

ASL Prefix No. 23042305

Page 1 of 1

BROOKHAVEN
NATIONAL LABORATORY

Carrier/Waybill # _____

P.O. # 37572

Chain of Custody No. 16377

Requires EDD ☒ ☐ DQL ____

SAMPLING CHAIN OF CUSTODY

Analysis Requested By	Sampling Contractor	Analytical Laboratory
Name: B Lee	Name: Evans Field Sampling	Name: GEL
Life: No: 20222 Ext. 3148	Contact:	Address:
Acct. No: 07089 Dept: ES	Phone:	City: St: Zip:
Email Reports To:	Email/Fax:	Contact:
1 B Lee	Sampler: L Lettieri / Cogeka	Phone:
2	B Metz	Email/Fax:
Project Name: Potable Wells	Project Manager: B Lee	Field Engineer:

Comments: 78879%

Type: UID	Type: UID	Strip	Coll	Site ID/Bldg/Life #	Depth/RWP	Date	Time	Matrix	Name/Description	Cont.Vol./Units	Cont.Type	# of Cont	Preservative	Alpha/Beta	Tritium	Gamma	Strontium (905)	524.2	624	Nuclide-specific Alpha	PCBs	Metals
	001	e	G	well 11	93-142	4/23/03	1030	W	Ground water	4l	P	1	HNO3				X					
	002	e	G	well 12	92-137	4/23/03	1040	W		4l	P	1	HNO3				X					
	003	e	G	well 4	95-147	4/23/03	1048	W		4l	P	1	HNO3				X					
	004	e	G	well 6	98-150	4/23/03	1100	W		4l	P	1	HNO3				X					
	005	e	G	BD-1	—	4/23/03	—	W		4l	P	1	HNO3				X					
	006	e	G	well 7	99-150	4/23/03	1112	W		4l	P	1	HNO3				X					

1 Relinquished By/Date/Time	2 Relinquished By/Date/Time	3 Relinquished By/Date/Time
Print L Lettieri 4/23/03	Print	Print
Signature [signature] 1140	Signature	Signature
1 Received By/Date/Time	**2 Received By/Date/Time**	**3 Received By/Date/Time**
Print J Harley 4/24/03	Print	Print
Signature JMHarley 0930	Signature	Signature

Contractor Lab Sample Disposal:
☐ Return To Client ☐ Disposal by Lab
☐ Archive For _____ Months

Data Package: ☐ Full ☐ Summary

Turn-Around Time Required:
☐ Rush (1 Day) ☐ 14 Days ☒ 30 Days
☐ 7 Days ☐ Other ( )

BNL F 3101C Distribution WHITE (1) - Stays with Sample; PINK (2) - Lab or Other GREEN (3) - Returned to Client with Report GOLDENROD (4) - Field Copy - (Sampler)

2

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51
Upton, New York 11973--5000
Contact: Ms. Susan Young
Project: Brookhaven ERD Contract

Report Date: May 23, 2003

Client Sample ID: 16377-003
Sample ID: 78879003
Matrix: Water
Collect Date: 23-APR-03 10:48
Receive Date: 24-APR-03 09:30
Collector: Client

Project: BRKL02000
Client ID: BRKL003
COC: 16377
Samp Recv.: 16377
Client Desc.: Well 4

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Sr90, liquid												
Strontium-90	U	0.236	+/-0.220	0.442	0.800	pCi/L		AB2	05/14/03	1045	249443	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #4

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

M. Moore

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51
Upton, New York 11973--5000
Contact: Ms. Susan Young
Project: Brookhaven ERD Contract

Report Date: May 23, 2003

Client Sample ID: 16377-004
Sample ID: 78879004
Matrix: Water
Collect Date: 23-APR-03 11:00
Receive Date: 24-APR-03 09:30
Collector: Client

Project: BRKL02000
Client ID: BRKL003
COC: 16377
Samp Recv.: 16377
Client Desc.: Well 6

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Sr90, liquid												
Strontium-90	U	-0.0562	+/-0.222	0.494	0.800	pCi/L		AB2	05/14/03	1047	249443	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #6

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51
Upton, New York 11973--5000
Contact: Ms. Susan Young
Project: Brookhaven ERD Contract

Report Date: May 23, 2003

Page 1 of 1

Client Sample ID: 16377-006
Sample ID: 78879006
Matrix: Water
Collect Date: 23-APR-03 11:12
Receive Date: 24-APR-03 09:30
Collector: Client

Project: BRKL02000
Client ID: BRKL003
COC: 16377
Samp Recv.: 16377
Client Desc.: Well 7

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	-0.119	+/-0.286	0.635	0.800	pCi/L		AB2 05/14/03	1047	249443	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #7

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51
Upton, New York 11973--5000
Contact: Ms. Susan Young
Project: Brookhaven ERD Contract

Report Date: May 23, 2003

Client Sample ID: 16377-001
Sample ID: 78879001
Matrix: Water
Collect Date: 23-APR-03 10:30
Receive Date: 24-APR-03 09:30
Collector: Client

Project: BRKL02000
Client ID: BRKL003
COC: 16377
Samp Recv.: 16377
Client Desc.: Well 11

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	0.327	+/-0.244	0.481	0.800	pCi/L		AB2 05/14/03	1045	249443	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #11

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51
Upton, New York 11973--5000
Contact: Ms. Susan Young
Project: Brookhaven ERD Contract

Report Date: May 23, 2003

Page 1 of 1

Client Sample ID: 16377-005
Sample ID: 78879005
Matrix: Water
Collect Date: 23-APR-03 12:00
Receive Date: 24-APR-03 09:30
Collector: Client

Project: BRKL02000
Client ID: BRKL003
COC: 16377
Samp Recv.: 16377
Client Desc.: BD-1

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Sr90, liquid												
Strontium-90	U	-0.0332	+/-0.275	0.601	0.800	pCi/L		AB2	05/14/03	1047	249443	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #11
Duplicate

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

K. Moore

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Brookhaven National Laboratory
Address : OER
Building 51
Upton, New York 11973--5000
Contact: Ms. Susan Young
Project: Brookhaven ERD Contract

Report Date: May 23, 2003

Client Sample ID: 16377-002
Sample ID: 78879002
Matrix: Water
Collect Date: 23-APR-03 10:40
Receive Date: 24-APR-03 09:30
Collector: Client

Project: BRKL02000
Client ID: BRKL003
COC: 16377
Samp Recv.: 16377
Client Desc.: Well 12

Parameter	Qualifier	Result		DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Sr90, liquid											
Strontium-90	U	0.153	+/-0.229	0.476	0.800	pCi/L		AB2 05/14/03	1045	249443	1

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 905.0 Modified	

Potable Well #12

Notes:
The Qualifiers in this report are defined as follows :

DL Failed required detection limit.
H Holding time exceeded
J Estimated value; the result was greater than the MDA but less than the required detection limit.
JN Presumptive evidence of the analyte at an estimated quantity.
R The data are unusable (radionuclide may or may not be present).
U Undetected; sample result < MDA
UI Uncertain identification for gamma spectroscopy.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

ATTACHMENT IV

Brookhaven National Laboratory
Potable Water Supply

2003 Second Quarter Principal Organic Compound Analyses for the BNL Potable Water Wells

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 : S. Scarpitta

Lab No. : 0304131-008

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

Federal ID 5111891
Client ID. : 16027-008
Collected 4/3/2003 10:23:00 AM Point No 8
Received 4/3/2003 3:05:00 PM Location: Well #4 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Chloromethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/15/2003 10:07:28 PM
Bromomethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Chloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Chloroform	2.8	µg/L	50	E502.2	4/15/2003 10:07:28 PM
1,1,1-Trichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Bromodichloromethane	< 0.5	µg/L	50	E502.2	4/15/2003 10:07:28 PM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Dibromochloromethane	< 0.5	µg/L	50	E502.2	4/15/2003 10:07:28 PM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Bromoform	< 0.5	µg/L	50	E502.2	4/15/2003 10:07:28 PM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S40

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 : S. Scarpitta

Lab No. : 0304131-008

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

Federal ID 5111891
Client ID. : 16027-008
Collected 4/3/2003 10:23:00 AM Point No 8
Received 4/3/2003 3:05:00 PM Location: Well #4 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Benzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Toluene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
o-Xylene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Styrene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/15/2003 10:07:28 PM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 10:07:28 PM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S41

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 : S. Scarpitta

Lab No. : 0304131-009

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

Federal ID 5111891
Client ID. : 16027-009
Collected 4/3/2003 10:35:00 AM Point No 9
Received 4/3/2003 3:05:00 PM Location: Well #6 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Chloromethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/15/2003 11:05:39 PM
Bromomethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Chloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Chloroform	5.6	µg/L	50	E502.2	4/15/2003 11:05:39 PM
1,1,1-Trichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Bromodichloromethane	< 0.5	µg/L	50	E502.2	4/15/2003 11:05:39 PM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Dibromochloromethane	< 0.5	µg/L	50	E502.2	4/15/2003 11:05:39 PM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Bromoform	< 0.5	µg/L	50	E502.2	4/15/2003 11:05:39 PM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S43

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 : S. Scarpitta

Lab No. : 0304131-009

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

Federal ID 5111891
Client ID. : 16027-009
Collected 4/3/2003 10:35:00 AM Point No 9
Received 4/3/2003 3:05:00 PM Location: Well #6 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Benzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Toluene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
o-Xylene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Styrene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/15/2003 11:05:39 PM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/15/2003 11:05:39 PM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S44

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 : S. Scarpitta

Lab No. : 0304131-010B

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

Client ID. : 16027-010

Federal ID 5111891
Collected : 4/3/03 10:50:00 AM
Received : 4/3/03 3:05:00 PM
Collected By : CLIENT
Copy : Original
CC

Point No : 10
Location : Well #7 Raw

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Chloromethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/16/03 12:03:51 AM
Bromomethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Chloroethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Chloroform	1.0	µg/L	50	E502.2	4/16/03 12:03:51 AM
1,1,1-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Bromodichloromethane	< 0.5	µg/L	50	E502.2	4/16/03 12:03:51 AM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Dibromochloromethane	< 0.5	µg/L	50	E502.2	4/16/03 12:03:51 AM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Bromoform	< 0.5	µg/L	50	E502.2	4/16/03 12:03:51 AM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM

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

Date Reported : 4/28/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : 0304131-010B

Client ID. : 16027-010

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

Federal ID 5111891
Collected : 4/3/03 10:50:00 AM
Received : 4/3/03 3:05:00 PM
Collected By : CLIENT
Copy : Original
CC

Point No : 10
Location : Well #7 Raw

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Benzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Toluene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
o-Xylene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Styrene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/16/03 12:03:51 AM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/03 12:03:51 AM

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

Date Reported : 4/28/03

Joann M. Slavin
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 : S. Scarpitta

Lab No. : 0304131-011

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

Federal ID 5111891
Client ID. : 16027-011
Collected 4/3/2003 11:07:00 AM Point No 12
Received 4/3/2003 3:05:00 PM Location: Well #11 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Chloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/16/2003 1:02:01 AM
Bromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Chloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Chloroform	< 0.5	µg/L	50	E502.2	4/16/2003 1:02:01 AM
1,1,1-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Bromodichloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 1:02:01 AM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Dibromochloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 1:02:01 AM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Bromoform	< 0.5	µg/L	50	E502.2	4/16/2003 1:02:01 AM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S49

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 : S. Scarpitta

Lab No. : 0304131-011

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

Federal ID 5111891
Client ID. : 16027-011
Collected 4/3/2003 11:07:00 AM Point No 12
Received 4/3/2003 3:05:00 PM Location: Well #11 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Benzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Toluene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
o-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Styrene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/16/2003 1:02:01 AM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 1:02:01 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S50

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 : S. Scarpitta

Lab No. : 0304131-014

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

Federal ID 5111891
Client ID. : 16027-014
Collected 4/3/2003 11:20:00 AM Point No 13
Received 4/3/2003 3:05:00 PM Location: Well #12 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Chloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/16/2003 2:57:59 AM
Bromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Chloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Chloroform	< 0.5	µg/L	50	E502.2	4/16/2003 2:57:59 AM
1,1,1-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Bromodichloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 2:57:59 AM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Dibromochloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 2:57:59 AM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Bromoform	< 0.5	µg/L	50	E502.2	4/16/2003 2:57:59 AM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S55

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 : S. Scarpitta

Lab No. : 0304131-014

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

Federal ID 5111891
Client ID. : 16027-014
Collected 4/3/2003 11:20:00 AM Point No 13
Received 4/3/2003 3:05:00 PM Location: Well #12 Raw
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Benzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Toluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
o-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Styrene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/16/2003 2:57:59 AM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:57:59 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S56

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 : S. Scarpitta

Lab No. : 0304131-012

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

Federal ID 5111891
Client ID. : 16027-012
Collected 4/3/2003 11:27:00 AM Point No 20
Received 4/3/2003 3:05:00 PM Location: Well #11 Treated
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Chloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/16/2003 2:00:04 AM
Bromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Chloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Chloroform	< 0.5	µg/L	50	E502.2	4/16/2003 2:00:04 AM
1,1,1-Trichloroethane	0.8	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Bromodichloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 2:00:04 AM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Dibromochloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 2:00:04 AM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Bromoform	< 0.5	µg/L	50	E502.2	4/16/2003 2:00:04 AM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S52

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 : S. Scarpitta

Lab No. : **0304131-012**

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

Federal ID 5111891
Client ID. : 16027-012
Collected 4/3/2003 11:27:00 AM Point No 20
Received 4/3/2003 3:05:00 PM Location: Well #11 Treated
Collected By CLIENT
Copy : **Original**
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Benzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Toluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
o-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Styrene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/16/2003 2:00:04 AM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 2:00:04 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S53

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 : S. Scarpitta

Lab No. : 0304131-015

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

Federal ID 5111891
Client ID. : 16027-015
Collected 4/3/2003 11:20:00 AM Point No 21
Received 4/3/2003 3:05:00 PM Location: Well #12 Treated
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Chloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/16/2003 3:55:53 AM
Bromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Chloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Chloroform	< 0.5	µg/L	50	E502.2	4/16/2003 3:55:53 AM
1,1,1-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Bromodichloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 3:55:53 AM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Dibromochloromethane	< 0.5	µg/L	50	E502.2	4/16/2003 3:55:53 AM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Bromoform	< 0.5	µg/L	50	E502.2	4/16/2003 3:55:53 AM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S58

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 : S. Scarpitta

Lab No. : 0304131-015

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

Federal ID 5111891
Client ID. : 16027-015
Collected 4/3/2003 11:20:00 AM Point No 21
Received 4/3/2003 3:05:00 PM Location: Well #12 Treated
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Benzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Toluene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
o-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Styrene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/16/2003 3:55:53 AM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 3:55:53 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S59

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 : S. Scarpitta

Lab No. : 0304131-019

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

Federal ID 5111891
Client ID. : 16027-019
Collected 4/3/2003 12:30:00 PM Point No 22
Received 4/3/2003 3:05:00 PM Location: Bldg. 624 WTP
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
Dichlorodifluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Chloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Vinyl chloride	< 0.5	µg/L	2	E502.2	4/16/2003 4:53:43 AM
Bromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Chloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Trichlorofluoromethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,1-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Methylene chloride	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
trans-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,1-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
cis-1,2-Dichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
2,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Bromochloromethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Chloroform	0.5	µg/L	50	E502.2	4/16/2003 4:53:43 AM
1,1,1-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Carbon tetrachloride	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,1-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,2-Dichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Trichloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,2-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Dibromomethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Bromodichloromethane	0.8	µg/L	50	E502.2	4/16/2003 4:53:43 AM
trans-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
cis-1,3-Dichloropropene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,1,2-Trichloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Tetrachloroethene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,3-Dichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Dibromochloromethane	0.6	µg/L	50	E502.2	4/16/2003 4:53:43 AM
Chlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,1,1,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Bromoform	< 0.5	µg/L	50	E502.2	4/16/2003 4:53:43 AM
Bromobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,1,2,2-Tetrachloroethane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,2,3-Trichloropropane	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
2-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
4-Chlorotoluene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,2-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,3-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S63

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 : S. Scarpitta

Lab No. : 0304131-019

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

Federal ID 5111891
Client ID. : 16027-019
Collected 4/3/2003 12:30:00 PM Point No 22
Received 4/3/2003 3:05:00 PM Location: Bldg. 624 WTP
Collected By CLIENT
Copy : Original
CC

Parameter(s)	Results	Units	Limit	Method Number	Analyzed
1,4-Dichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,2,4-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Hexachlorobutadiene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,2,3-Trichlorobenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Benzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Toluene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Ethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
m,p-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
o-Xylene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Styrene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Isopropylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
n-Propylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,3,5-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
Methyl tert-butyl ether	< 0.5	µg/L	50	E502.2	4/16/2003 4:53:43 AM
tert-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
1,2,4-Trimethylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
4-Isopropyltoluene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
sec-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM
n-Butylbenzene	< 0.5	µg/L	5	E502.2	4/16/2003 4:53:43 AM

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

Joann M. Slavin
Laboratory Manager

Date Reported : 4/28/2003

BNLM134 S64