



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: January

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	235,857	1.00	1.50	0.76	0.29	7.50				
2	201,908	0.75	1.13	0.67	0.16	7.51				
3	228,182	1.00	1.50	0.79	0.26	7.51				
4	190,304	1.00	1.50	0.95	0.18	7.51				
5	222,202	1.00	1.50	0.81	0.25	7.51				
6	256,536	1.00	1.50	0.70	0.27	7.51				
7	221,071	1.00	1.50	0.82	0.29	7.51				
8	198,410	1.00	1.50	0.91	0.29	7.51				
9	204,177	1.00	1.50	0.88	0.27	7.51				
10	213,530	1.00	1.50	0.84	0.29	7.51				
11	189,891	1.00	1.50	0.95	0.31	7.51				
12	222,442	1.00	1.50	0.81	0.23	7.51				
13	235,374	1.00	1.50	0.77	0.24	7.51				
14	221,590	1.00	1.50	0.81	0.12	7.51				
15	201,744	1.00	1.50	0.89	0.19	7.51				
16	205,878	1.00	1.50	0.88	0.14	7.50				
17	215,183	1.00	1.50	0.84	0.18	7.50				
18	195,796	1.00	1.50	0.92	0.28	7.50				
19	228,695	1.00	1.50	0.79	0.19	7.50				
20	216,264	1.00	1.50	0.83	0.22	7.50				
21	233,008	1.00	1.50	0.77	0.20	7.50				
22	201,584	1.00	1.50	0.89	0.18	7.50				
23	224,321	1.00	1.50	0.80	0.21	7.50				
24	205,344	1.00	1.50	0.88	0.15	7.50				
25	201,215	1.00	1.50	0.90	0.13	7.50				
26	234,145	1.00	1.50	0.77	0.07	7.50				
27	245,578	1.00	1.50	0.73	0.18	7.50				
28	212,528	1.00	1.50	0.85	0.22	7.50				
29	236,195	1.00	1.50	0.76	0.25	7.50				
30	238,801	1.00	1.50	0.75	0.20	7.50				
31	247,514	1.00	1.50	0.73	0.20	7.50				
Total	6,785,265	30.75	46.22							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508 376 8484

Fax:

508 376 2442

Date:

2/5/13

Title:

Water Test

Email:

I. PWS INFORMATION:

PWS ID#:

2187000

PWS Name:

Public Works Department

PWS Town:

Millis

Treatment Facility Name:

Wells 5 & 6

Reporting Period:

Month:

January

Year:

2013

II. DAILY REPORTING:

Chemical Name¹:

Sodium Hypochlorite

Purchased Strength (%):

15%

Purchased Density²:

10.02

Manufacturer:

univar

Product Name:

BORCHLOR 15%

Reason for Adding Chemical:

Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	193.722	0.50	0.75	0.47	0.01	7.36				
2	166.448	0.50	0.75	0.54	0.03	7.35				
3	186.919	0.50	0.75	0.48	0.01	7.35				
4	154.766	0.50	0.75	0.58	0.01	7.34				
5	180.195	0.50	0.75	0.50	0.01	7.35				
6	211.243	0.50	0.75	0.43	0.01	7.34				
7	178.784	0.50	0.75	0.50	0.01	7.34				
8	165.549	0.50	0.75	0.54	0.01	7.34				
9	167.769	0.25	0.38	0.27	0.01	7.34				
10	164.265	0.25	0.38	0.27	0.01	7.35				
11	153.291	0.25	0.38	0.29	0.01	7.34				
12	182.034	0.25	0.38	0.25	0.01	7.34				
13	191.956	0.25	0.38	0.23	0.01	7.35				
14	179.191	0.25	0.38	0.25	0.01	7.35				
15	164.510	0.25	0.38	0.27	0.01	7.34				
16	168.676	0.25	0.38	0.27	0.01	7.35				
17	173.698	0.25	0.38	0.26	0.01	7.35				
18	158.878	0.25	0.38	0.28	0.01	7.35				
19	188.275	0.25	0.38	0.24	0.01	7.34				
20	174.817	0.25	0.38	0.26	0.01	7.34				
21	190.131	0.25	0.38	0.24	0.09	7.35				
22	165.050	0.25	0.38	0.27	0.14	7.34				
23	183.049	0.25	0.38	0.25	0.03	7.34				
24	165.894	0.25	0.38	0.27	0.01	7.34				
25	160.245	0.25	0.38	0.28	0.01	7.34				
26	191.042	0.25	0.38	0.24	0.01	7.34				
27	199.488	0.25	0.38	0.23	0.01	7.36				
28	173.217	0.25	0.38	0.26	0.01	7.36				
29	191.531	0.25	0.38	0.24	0.01	7.34				
30	194.505	0.25	0.38	0.23	0.01	7.35				
31	200.236	0.25	0.38	0.23	0.01	7.35				
Total	5,519.374	9.75	14.65							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

2/5/13

2/5/13

2/5/13

2/5/13

508 376 5424

508 376 2442

2/5/13

2/5/13



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: January

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)		
1	235,857	0.00	0.00	0.00	0.29	7.50				not in use
2	201,908	0.00	0.00	0.00	0.16	7.51				
3	228,182	0.00	0.00	0.00	0.26	7.51				
4	190,304	0.00	0.00	0.00	0.18	7.51				
5	222,202	0.00	0.00	0.00	0.25	7.51				
6	256,536	0.00	0.00	0.00	0.27	7.51				
7	221,071	0.00	0.00	0.00	0.29	7.51				
8	198,410	0.00	0.00	0.00	0.29	7.51				
9	204,177	0.00	0.00	0.00	0.27	7.51				
10	213,530	0.00	0.00	0.00	0.29	7.51				
11	189,891	0.00	0.00	0.00	0.31	7.51				
12	222,442	0.00	0.00	0.00	0.23	7.51				
13	235,374	0.00	0.00	0.00	0.24	7.51				
14	221,590	0.00	0.00	0.00	0.12	7.51				
15	201,744	0.00	0.00	0.00	0.19	7.51				
16	205,878	0.00	0.00	0.00	0.14	7.50				
17	215,183	0.00	0.00	0.00	0.18	7.50				
18	195,796	0.00	0.00	0.00	0.28	7.50				
19	228,695	0.00	0.00	0.00	0.19	7.50				
20	216,264	0.00	0.00	0.00	0.22	7.50				
21	233,008	0.00	0.00	0.00	0.20	7.50				
22	201,584	0.00	0.00	0.00	0.18	7.50				
23	224,321	0.00	0.00	0.00	0.21	7.50				
24	205,344	0.00	0.00	0.00	0.15	7.50				
25	201,215	0.00	0.00	0.00	0.13	7.50				
26	234,145	0.00	0.00	0.00	0.07	7.50				
27	245,578	0.00	0.00	0.00	0.18	7.50				
28	212,528	0.00	0.00	0.00	0.22	7.50				
29	236,195	0.00	0.00	0.00	0.25	7.50				
30	238,801	0.00	0.00	0.00	0.20	7.50				
31	247,514	0.00	0.00	0.00	0.20	7.50				
Total	6,785,265	0.00	0.00							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Well3

Reporting Period: Month: January

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00		7.00				off-line
2	0	0.00	0.00	0.00		7.30				
3	0	0.00	0.00	0.00		7.01				
4	0	0.00	0.00	0.00		7.47				
5	0	0.00	0.00	0.00		7.32				
6	0	0.00	0.00	0.00		7.30				
7	0	0.00	0.00	0.00		7.30				
8	0	0.00	0.00	0.00		7.30				
9	0	0.00	0.00	0.00		7.30				
10	0	0.00	0.00	0.00		7.30				
11	0	0.00	0.00	0.00		7.34				
12	0	0.00	0.00	0.00		7.46				
13	0	0.00	0.00	0.00		7.50				
14	0	0.00	0.00	0.00		7.50				
15	0	0.00	0.00	0.00		7.46				
16	31,640	3.00	7.92	30.01		7.39				
17	0	0.00	0.00	0.00		6.04				
18	0	0.00	0.00	0.00		2.00				
19	0	0.00	0.00	0.00		2.00				
20	0	0.00	0.00	0.00		2.00				
21	0	0.00	0.00	0.00		2.00				
22	0	0.00	0.00	0.00		2.00				
23	0	0.00	0.00	0.00		2.00				
24	0	0.00	0.00	0.00		2.00				
25	0	0.00	0.00	0.00		2.00				
26	0	0.00	0.00	0.00		2.00				
27	0	0.00	0.00	0.00		2.00				
28	0	0.00	0.00	0.00		2.00				
29	0	0.00	0.00	0.00		2.00				
30	0	0.00	0.00	0.00		2.00				
31	0	0.00	0.00	0.00		2.00				
Total	31,640	3.00	7.92							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

5083765424

Fax:

5083762442

Date:

2/5/13

Title:

Water Tech

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period: Month: January

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	153,713	15.00	39.60	30.89		7.30				
2	132,103	13.00	34.32	31.15		7.30				
3	147,726	14.00	36.96	30.00		7.30				
4	123,411	12.00	31.68	30.78		7.30				
5	143,649	14.00	36.96	30.85		7.30				
6	166,840	16.00	42.24	30.36		7.30				
7	142,728	14.00	36.96	31.05		7.30				
8	131,981	13.00	34.32	31.18		7.30				
9	141,460	14.00	36.96	31.33		7.30				
10	137,554	13.00	34.32	29.92		7.30				
11	122,574	12.00	31.68	30.99		7.30				
12	153,705	15.00	39.60	30.89		7.30				
13	160,113	16.00	42.24	31.63		7.34				
14	141,429	14.00	36.96	31.33		7.30				
15	131,504	13.00	34.32	31.29		7.30				
16	134,341	13.00	34.32	30.63		7.31				
17	133,949	13.00	34.32	30.72		7.30				
18	127,679	12.00	31.68	29.75		7.30				
19	148,824	14.00	36.96	29.78		7.30				
20	140,092	14.00	36.96	31.63		7.30				
21	151,055	15.00	39.60	31.43		7.30				
22	131,445	13.00	34.32	31.31		7.30				
23	145,118	14.00	36.96	30.54		7.30				
24	133,501	13.00	34.32	30.82		7.30				
25	127,525	12.00	31.68	29.79		7.30				
26	150,668	15.00	39.60	31.51		7.30				
27	158,114	15.00	39.60	30.03		7.30				
28	137,633	13.00	34.32	29.90		7.30				
29	152,033	15.00	39.60	31.23		7.30				
30	165,027	16.00	42.24	30.69		7.30				
31	159,738	15.00	39.60	29.72		7.30				
Total	4,427,232	430.00	1135.20							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 2/6/13

Title: Water Fed

Phone #: 508 376 8424

Fax: 508 376 2442

Email:

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: January

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	193,722	19.00	50.16	31.05	0.01	7.36				
2	166,448	16.00	42.24	30.43	0.03	7.35				
3	186,919	17.00	44.88	28.79	0.01	7.35				
4	154,766	15.00	39.60	30.68	0.01	7.34				
5	180,195	18.00	47.52	31.62	0.01	7.35				
6	211,243	21.00	55.44	31.47	0.01	7.34				
7	178,784	17.00	44.88	30.10	0.01	7.34				
8	165,549	16.00	42.24	30.59	0.01	7.34				
9	167,769	16.00	42.24	30.19	0.01	7.34				
10	164,265	16.00	42.24	30.83	0.01	7.35				
11	153,291	15.00	39.60	30.98	0.01	7.34				
12	182,034	18.00	47.52	31.30	0.01	7.34				
13	191,956	19.00	50.16	31.33	0.01	7.35				
14	179,191	17.00	44.88	30.03	0.01	7.35				
15	164,510	16.00	42.24	30.79	0.01	7.34				
16	168,676	16.00	42.24	30.03	0.01	7.35				
17	173,698	17.00	44.88	30.98	0.01	7.35				
18	158,878	15.00	39.60	29.89	0.01	7.35				
19	188,275	18.00	47.52	30.26	0.01	7.34				
20	174,817	17.00	44.88	30.78	0.01	7.34				
21	190,131	19.00	50.16	31.63	0.09	7.35				
22	165,050	15.00	39.60	28.77	0.14	7.34				
23	183,049	18.00	47.52	31.13	0.03	7.34				
24	165,894	16.00	42.24	30.53	0.01	7.34				
25	160,245	16.00	42.24	31.61	0.01	7.34				
26	191,042	19.00	50.16	31.48	0.01	7.34				
27	199,488	19.00	50.16	30.15	0.01	7.36				
28	173,217	17.00	44.88	31.07	0.01	7.36				
29	191,531	19.00	50.16	31.40	0.01	7.34				
30	194,505	19.00	50.16	30.92	0.01	7.35				
31	200,236	20.00	52.80	31.62	0.01	7.35				
Total	5,519,374	536.00	1415.04							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 2/5/13

Title: Water Tech

Phone #: 508 376 5424

Fax: 508 376 2442

Email:

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

COPY

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Mills

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: February

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: UNIVAR

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	202,424	1.00	1.50	0.89	0.18	7.62					
2	261,585	1.25	1.88	0.86	0.18	7.50					
3	284,671	1.25	1.88	0.79	0.20	7.50					
4	273,801	1.25	1.88	0.82	0.20	7.50					
5	274,136	1.25	1.88	0.82	0.19	7.50					
6	264,490	1.25	1.88	0.85	0.22	7.50					
7	264,142	1.25	1.88	0.85	0.20	7.56					
8	277,655	1.50	2.25	0.97	0.26	7.67					
9	265,287	1.25	1.88	0.85	0.24	7.67					
10	291,200	1.25	1.88	0.77	0.23	7.67					
11	278,221	1.25	1.88	0.81	0.23	7.67					
12	260,016	1.25	1.88	0.87	0.23	7.67					
13	250,488	1.25	1.88	0.90	0.20	7.67					
14	276,978	1.25	1.88	0.81	0.22	7.67					
15	264,394	1.25	1.88	0.85	0.22	7.67					
16	249,202	1.25	1.88	0.90	0.29	7.67					
17	271,363	1.25	1.88	0.83	0.20	7.67					
18	269,632	1.25	1.88	0.84	0.20	7.67					
19	251,925	1.25	1.88	0.89	0.22	7.67					
20	238,520	1.25	1.88	0.94	0.14	7.67					
21	262,971	1.25	1.88	0.86	0.16	7.67					
22	236,816	1.25	1.88	0.95	0.14	7.67					
23	241,567	1.25	1.88	0.93	0.18	7.67					
24	295,926	1.25	1.88	0.76	0.18	7.67					
25	260,026	1.25	1.88	0.87	0.19	7.67					
26	242,060	1.25	1.88	0.93	0.15	7.67					
27	278,897	1.25	1.88	0.81	0.16	7.67					
28	247,801	1.25	1.88	0.91	0.15	7.62					
29											
30											
31											
Total	7,336,197	35.00	52.61								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 3/4/13

Title: Water Test

Phone #: 508 376 5104

Fax: 508 376 2442

Email:

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000 PWS Name: Public Works Department PWS Town: Millis
Treatment Facility Name: Wells 5 & 6 Reporting Period: Month: February Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite Purchased Strength (%): 15% Purchased Density²: 10.02
Manufacturer: UNIVAR Product Name: BORCHLOR 15%

UNIVAR

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	165,042	0.25	0.38	0.27	0.01	7.43					
2	212,373	0.25	0.38	0.21	0.01	7.36					
3	232,438	0.25	0.38	0.19	0.01	7.35					
4	222,237	0.25	0.38	0.20	0.01	7.35					
5	222,893	0.25	0.38	0.20	0.01	7.35					
6	215,648	0.25	0.38	0.21	0.01	7.36					
7	213,565	0.25	0.38	0.21	0.01	7.36					
8	226,012	0.25	0.38	0.20	0.01	7.36					
9	216,828	0.25	0.38	0.21	0.01	7.35					
10	237,352	0.25	0.38	0.19	0.01	7.37					
11	225,843	0.25	0.38	0.20	0.01	7.38					
12	215,872	0.25	0.38	0.21	0.01	7.38					
13	202,337	0.25	0.38	0.22	0.01	7.38					
14	225,032	0.25	0.38	0.20	0.01	7.39					
15	216,544	0.25	0.38	0.21	0.01	7.39					
16	201,972	0.25	0.38	0.22	0.01	7.39					
17	220,483	0.25	0.38	0.20	0.01	7.39					
18	220,875	0.25	0.38	0.20	0.01	7.39					
19	203,727	0.25	0.38	0.22	0.01	7.39					
20	193,972	0.25	0.38	0.23	0.01	7.40					
21	214,502	0.25	0.38	0.21	0.01	7.40					
22	192,088	0.25	0.38	0.23	0.01	7.40					
23	196,407	0.25	0.38	0.23	0.01	7.41					
24	241,462	0.25	0.38	0.19	0.01	7.41					
25	211,183	0.25	0.38	0.21	0.01	7.41					
26	196,645	0.25	0.38	0.23	0.01	7.42					
27	227,536	0.25	0.38	0.20	0.01	7.42					
28	203,773	0.25	0.38	0.22	0.01	7.42					
29											
30											
31											
Total	5,974,641	7.00	10.52								

All chemicals added to drinking water must be approved by
AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out
this form and the information contained herein is true, accurate and
complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

COPY

I. PWS INFORMATION:

PWS ID#: 2187000 PWS Name: Public Works Department PWS Town: Millis
Treatment Facility Name: Wells 1 & 2 Reporting Period: Month: February Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide Purchased Strength (%): 25% Purchased Density²: 10.56
Manufacturer: UNIVAR Product Name: CAUSTIC SODA
Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	202,424	0.00	0.00	0.00	0.18	7.62				not in use
2	261,585	0.00	0.00	0.00	0.18	7.50				
3	284,671	0.00	0.00	0.00	0.20	7.50				
4	273,801	0.00	0.00	0.00	0.20	7.50				
5	274,136	0.00	0.00	0.00	0.19	7.50				
6	264,490	0.00	0.00	0.00	0.22	7.50				
7	264,142	0.00	0.00	0.00	0.20	7.56				
8	277,655	0.00	0.00	0.00	0.26	7.67				
9	265,287	0.00	0.00	0.00	0.24	7.67				
10	291,200	0.00	0.00	0.00	0.23	7.67				
11	278,221	0.00	0.00	0.00	0.23	7.67				
12	260,016	0.00	0.00	0.00	0.23	7.67				
13	250,488	0.00	0.00	0.00	0.20	7.67				
14	276,978	0.00	0.00	0.00	0.22	7.67				
15	264,394	0.00	0.00	0.00	0.22	7.67				
16	249,202	0.00	0.00	0.00	0.29	7.67				
17	271,363	0.00	0.00	0.00	0.20	7.67				
18	269,632	0.00	0.00	0.00	0.20	7.67				
19	251,925	0.00	0.00	0.00	0.22	7.67				
20	238,520	0.00	0.00	0.00	0.14	7.67				
21	262,971	0.00	0.00	0.00	0.16	7.67				
22	236,816	0.00	0.00	0.00	0.14	7.67				
23	241,567	0.00	0.00	0.00	0.18	7.67				
24	295,926	0.00	0.00	0.00	0.18	7.67				
25	260,026	0.00	0.00	0.00	0.19	7.67				
26	242,060	0.00	0.00	0.00	0.15	7.67				
27	278,897	0.00	0.00	0.00	0.16	7.67				
28	247,801	0.00	0.00	0.00	0.15	7.62				
29	0									
30	0									
31	0									
Total	7,336,197	0.00	0.00							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508.376.8404

Fax:

508.376.2442

Date:

3/4/13

Title:

water for

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000 PWS Name: Public Works Department PWS Town: Millis
Treatment Facility Name: Well3 Reporting Period: Month: February Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide Purchased Strength (%): 25% Purchased Density²: 10.56
Manufacturer: UNIVAR Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00		5.06				well off-line
2	0	0.00	0.00	0.00		5.10				
3	0	0.00	0.00	0.00		5.09				
4	0	0.00	0.00	0.00		5.09				
5	0	0.00	0.00	0.00		5.09				
6	0	0.00	0.00	0.00		5.09				
7	0	0.00	0.00	0.00		5.23				
8	0	0.00	0.00	0.00		5.40				
9	0	0.00	0.00	0.00		5.40				
10	0	0.00	0.00	0.00		5.40				
11	0	0.00	0.00	0.00		5.40				
12	0	0.00	0.00	0.00		5.40				
13	0	0.00	0.00	0.00		5.20				
14	0	0.00	0.00	0.00		5.20				
15	0	0.00	0.00	0.00		5.20				
16	0	0.00	0.00	0.00		5.40				
17	0	0.00	0.00	0.00		5.40				
18	0	0.00	0.00	0.00		5.40				
19	0	0.00	0.00	0.00		5.40				
20	0	0.00	0.00	0.00		5.40				
21	0	0.00	0.00	0.00		5.40				
22	0	0.00	0.00	0.00		5.40				
23	0	0.00	0.00	0.00		5.40				
24	0	0.00	0.00	0.00		5.40				
25	0	0.00	0.00	0.00		5.20				
26	1,542	0.00	0.00	0.00		5.20				
27	0	0.00	0.00	0.00		5.19				
28	0	0.00	0.00	0.00		5.06				
29										
30										
31										
Total	1,542	0.00	0.00							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by
AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out
this form and the information contained herein is true, accurate and
complete to the best extent of my knowledge.

PWS Authorized Signature: [Signature]

Phone #: 508 376 8424

Date: 3/4/13

Title: Water Lead

Fax: 508 376 2442

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Well4

Reporting Period: Month: February

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	130,793	13.00	34.32	31.46		7.40				
2	168,487	16.00	42.24	30.06		7.30				
3	183,453	18.00	47.52	31.06		7.30				
4	176,486	17.00	44.88	30.49		7.30				
5	176,660	17.00	44.88	30.46		7.30				
6	169,946	16.00	42.24	29.80		7.30				
7	169,320	16.00	42.24	29.91		7.34				
8	178,637	17.00	44.88	30.12		7.40				
9	171,131	17.00	44.88	31.45		7.40				
10	188,067	18.00	47.52	30.30		7.40				
11	179,448	17.00	44.88	29.99		7.40				
12	170,579	17.00	44.88	31.55		7.40				
13	167,072	16.00	42.24	30.31		7.40				
14	177,342	17.00	44.88	30.34		7.32				
15	170,553	17.00	44.88	31.55		7.30				
16	160,625	16.00	42.24	31.53		7.30				
17	174,870	17.00	44.88	30.77		7.30				
18	173,881	17.00	44.88	30.95		7.30				
19	162,353	16.00	42.24	31.20		7.30				
20	177,131	17.00	44.88	30.38		7.30				
21	168,512	16.00	42.24	30.06		7.38				
22	153,326	16.00	42.24	33.03		7.40				
23	155,328	15.00	39.60	30.57		7.40				
24	190,054	19.00	50.16	31.65		7.40				
25	167,604	16.00	42.24	30.22		7.40				
26	155,147	15.00	39.60	30.60		7.40				
27	162,328	16.00	42.24	31.20		7.40				
28	159,783	15.00	39.60	29.72		7.43				
29										
30										
31										
Total	4,738,916	460.00	1214.40							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: February

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	165,042	16.00	42.24	30.69	0.01	7.43					
2	212,373	20.00	52.80	29.81	0.01	7.36					
3	232,438	21.00	55.44	28.60	0.01	7.35					
4	222,237	20.00	52.80	28.49	0.01	7.35					
5	222,893	20.00	52.80	28.40	0.01	7.35					
6	215,648	20.00	52.80	29.36	0.01	7.36					
7	213,565	20.00	52.80	29.64	0.01	7.36					
8	226,012	21.00	55.44	29.41	0.01	7.36					
9	216,828	20.00	52.80	29.20	0.01	7.35					
10	237,352	22.00	58.08	29.34	0.01	7.37					
11	225,843	20.00	52.80	28.03	0.01	7.38					
12	215,872	20.00	52.80	29.33	0.01	7.38					
13	202,337	20.00	52.80	31.29	0.01	7.38					
14	225,032	21.00	55.44	29.54	0.01	7.39					
15	216,544	20.00	52.80	29.24	0.01	7.39					
16	201,972	20.00	52.80	31.35	0.01	7.39					
17	220,483	21.00	55.44	30.15	0.01	7.39					
18	220,875	21.00	55.44	30.10	0.01	7.39					
19	203,727	20.00	52.80	31.08	0.01	7.39					
20	193,972	19.00	50.16	31.01	0.01	7.40					
21	214,502	20.00	52.80	29.51	0.01	7.40					
22	192,088	19.00	50.16	31.31	0.01	7.40					
23	196,407	19.00	50.16	30.62	0.01	7.41					
24	241,462	22.00	58.08	28.84	0.01	7.41					
25	211,183	19.00	50.16	28.48	0.01	7.41					
26	196,645	20.00	52.80	32.19	0.01	7.42					
27	227,536	20.00	52.80	27.82	0.01	7.42					
28	203,773	20.00	52.80	31.07	0.01	7.42					
29	0										
30	0										
31	0										
Total	5,974,641	561.00	1481.04								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 3/4/13

Title: Water Tech

Phone #: 508 376 8404

Fax: 508 376 2442

Email:

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

COPY C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: March

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	257,927	1.25	1.88	0.87	0.08	7.66				
2	276,743	1.25	1.88	0.81	0.13	7.65				
3	287,797	1.25	1.88	0.78	0.12	7.66				
4	271,317	1.25	1.88	0.83	0.14	7.66				
5	239,817	1.25	1.88	0.94	0.19	7.66				
6	239,897	1.25	1.88	0.94	0.17	7.66				
7	239,464	1.25	1.88	0.94	0.16	7.66				
8	254,514	1.25	1.88	0.89	0.18	7.66				
9	255,225	1.25	1.88	0.88	0.14	7.66				
10	246,649	1.25	1.88	0.91	0.15	7.66				
11	267,736	1.25	1.88	0.84	0.16	7.66				
12	242,857	1.25	1.88	0.93	0.16	7.66				
13	241,846	1.25	1.88	0.93	0.19	7.66				
14	253,747	1.25	1.88	0.89	0.21	7.66				
15	245,540	1.25	1.88	0.92	0.22	7.66				
16	268,030	1.25	1.88	0.84	0.22	7.66				
17	300,151	1.50	2.25	0.90	0.17	7.66				
18	210,823	1.00	1.50	0.85	0.22	7.66				
19	239,866	1.00	1.50	0.75	0.17	7.66				
20	205,242	1.00	1.50	0.88	0.16	7.66				
21	210,481	1.00	1.50	0.86	0.10	7.66				
22	215,655	1.00	1.50	0.84	0.14	7.66				
23	210,358	1.00	1.50	0.86	0.14	7.66				
24	268,438	1.00	1.50	0.67	0.15	7.66				
25	173,641	0.50	0.75	0.52	0.11	7.66				
26	169,481	0.50	0.75	0.53	0.03	7.66				
27	174,050	0.50	0.75	0.52	0.03	7.66				
28	159,304	0.50	0.75	0.57	0.03	7.66				
29	182,865	0.50	0.75	0.49	0.06	7.66				
30	176,452	0.50	0.75	0.51	0.06	7.66				
31	200,661	0.50	0.75	0.45	0.07	7.66				
Total	7,186,573	32.00	48.10							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lbs/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 4/1/13

Title: Water Treatment

Phone #: 508-376-8124

Fax: 508-376-2442

Email:

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: March

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	6,271	0.00	0.00	0.00	0.21	5.24					
2	0	0.00	0.00	0.00	0.11	5.10					
3	0	0.00	0.00	0.00	0.15	5.08					
4	0	0.00	0.00	0.00	0.11	5.08					
5	0	0.00	0.00	0.00	0.01	5.08					
6	0	0.00	0.00	0.00	0.01	5.09					
7	0	0.00	0.00	0.00	0.01	5.09					
8	0	0.00	0.00	0.00	0.01	5.09					
9	0	0.00	0.00	0.00	0.01	5.09					
10	0	0.00	0.00	0.00	0.01	5.09					
11	0	0.00	0.00	0.00	0.01	5.09					
12	0	0.00	0.00	0.00	0.01	5.09					
13	0	0.00	0.00	0.00	0.01	5.09					
14	0	0.00	0.00	0.00	0.01	5.09					
15	0	0.00	0.00	0.00	0.01	5.09					
16	0	0.00	0.00	0.00	0.01	5.09					
17	0	0.00	0.00	0.00	0.01	5.09					
18	0	0.00	0.00	0.00	0.01	5.09					
19	0	0.00	0.00	0.00	0.01	5.09					
20	0	0.00	0.00	0.00	0.01	5.09					
21	0	0.00	0.00	0.00	0.04	5.09					
22	0	0.00	0.00	0.00	0.02	5.09					
23	0	0.00	0.00	0.00	0.02	5.09					
24	0	0.00	0.00	0.00	0.01	5.09					
25	134,005	0.25	0.38	0.34	0.01	5.09					
26	146,683	0.25	0.38	0.31	0.01	4.50					
27	146,113	0.25	0.38	0.31	0.01	4.79					
28	132,361	0.25	0.38	0.34	0.01	5.12					
29	146,612	0.25	0.38	0.31	0.01	5.24					
30	146,796	0.25	0.38	0.31	0.01	5.24					
31	163,092	0.25	0.38	0.28	0.01	5.24					
Total	1,021,933	1.75	2.63								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 4/1/13

Title: univar

Phone#

508 376 8424

Fax:

508 376 2442

Email:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: March

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	209,797	0.25	0.38	0.21	0.05	7.49				
2	228,226	0.25	0.38	0.20	0.10	7.43				
3	237,177	0.25	0.38	0.19	0.10	7.43				
4	223,358	0.25	0.38	0.20	0.10	7.42				
5	196,304	0.25	0.38	0.23	0.10	7.41				
6	197,179	0.25	0.38	0.23	0.08	7.42				
7	197,579	0.25	0.38	0.23	0.09	7.42				
8	208,052	0.25	0.38	0.22	0.03	7.43				
9	208,052	0.25	0.38	0.22	0.02	7.42				
10	210,548	0.25	0.38	0.21	0.04	7.43				
11	219,011	0.25	0.38	0.21	0.03	7.44				
12	199,308	0.25	0.38	0.23	0.11	7.44				
13	199,230	0.25	0.38	0.23	0.04	7.44				
14	209,042	0.25	0.38	0.22	0.02	7.43				
15	200,964	0.25	0.38	0.22	0.03	7.42				
16	221,773	0.25	0.38	0.20	0.04	7.45				
17	247,699	0.25	0.38	0.18	0.04	7.45				
18	172,256	0.25	0.38	0.26	0.04	7.44				
19	196,732	0.25	0.38	0.23	0.04	7.46				
20	168,096	0.25	0.38	0.27	0.05	7.46				
21	173,628	0.25	0.38	0.26	0.05	7.47				
22	175,398	0.25	0.38	0.26	0.06	7.47				
23	174,204	0.25	0.38	0.26	0.05	7.48				
24	218,707	0.25	0.38	0.21	0.06	7.47				
25	138,787	0.25	0.38	0.32	0.05	7.48				
26	114,894	0.25	0.38	0.39	0.06	7.49				
27	134,389	0.25	0.38	0.34	0.06	7.49				
28	123,127	0.25	0.38	0.37	0.05	7.48				
29	139,195	0.25	0.38	0.32	0.04	7.48				
30	135,404	0.25	0.38	0.33	0.04	7.48				
31	155,078	0.25	0.38	0.29	0.04	7.49				
Total	5,833,196	7.75	11.65							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508 376 5424

Fax:

508 376 2442

Date:

4/1/13

Title:

Waterfall

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

COPY C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: March

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	257,927	0.00	0.00	0.00	0.08	7.66					
2	276,743	0.00	0.00	0.00	0.13	7.65					
3	287,797	0.00	0.00	0.00	0.12	7.66					
4	271,317	0.00	0.00	0.00	0.14	7.66					
5	239,817	0.00	0.00	0.00	0.19	7.66					
6	239,897	0.00	0.00	0.00	0.17	7.66					
7	239,464	0.00	0.00	0.00	0.16	7.66					
8	254,514	0.00	0.00	0.00	0.18	7.66					
9	255,225	0.00	0.00	0.00	0.14	7.66					
10	246,649	0.00	0.00	0.00	0.15	7.66					
11	267,736	0.00	0.00	0.00	0.16	7.66					
12	242,857	0.00	0.00	0.00	0.16	7.66					
13	241,846	0.00	0.00	0.00	0.19	7.66					
14	253,747	0.00	0.00	0.00	0.21	7.66					
15	245,540	0.00	0.00	0.00	0.22	7.66					
16	268,030	0.00	0.00	0.00	0.22	7.66					
17	300,151	0.00	0.00	0.00	0.17	7.66					
18	210,823	0.00	0.00	0.00	0.22	7.66					
19	239,866	0.00	0.00	0.00	0.17	7.66					
20	205,242	0.00	0.00	0.00	0.16	7.66					
21	210,481	0.00	0.00	0.00	0.10	7.66					
22	215,655	0.00	0.00	0.00	0.14	7.66					
23	210,358	0.00	0.00	0.00	0.14	7.66					
24	268,438	0.00	0.00	0.00	0.15	7.66					
25	173,641	0.00	0.00	0.00	0.11	7.66					
26	169,481	0.00	0.00	0.00	0.03	7.66					
27	174,050	0.00	0.00	0.00	0.03	7.66					
28	159,304	0.00	0.00	0.00	0.03	7.66					
29	182,865	0.00	0.00	0.00	0.06	7.66					
30	176,452	0.00	0.00	0.00	0.06	7.66					
31	200,661	0.00	0.00	0.00	0.07	7.66					
Total	7,186,573	0.00	0.00								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 4/1/13

Title: Water Test

Phone #: 508-376-5124

Fax: 508-376-2442

Email:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well3

Reporting Period: Month: March

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	6,271	0.00	0.00	0.00	0.21	5.24					
2	0	0.00	0.00	0.00	0.11	5.10					
3	0	0.00	0.00	0.00	0.15	5.08					
4	0	0.00	0.00	0.00	0.11	5.08					
5	0	0.00	0.00	0.00	0.01	5.08					
6	0	0.00	0.00	0.00	0.01	5.09					
7	0	0.00	0.00	0.00	0.01	5.09					
8	0	0.00	0.00	0.00	0.01	5.09					
9	0	0.00	0.00	0.00	0.01	5.09					
10	0	0.00	0.00	0.00	0.01	5.09					
11	0	0.00	0.00	0.00	0.01	5.09					
12	0	0.00	0.00	0.00	0.01	5.09					
13	0	0.00	0.00	0.00	0.01	5.09					
14	0	0.00	0.00	0.00	0.01	5.09					
15	0	0.00	0.00	0.00	0.01	5.09					
16	0	0.00	0.00	0.00	0.01	5.09					
17	0	0.00	0.00	0.00	0.01	5.09					
18	0	0.00	0.00	0.00	0.01	5.09					
19	0	0.00	0.00	0.00	0.01	5.09					
20	0	0.00	0.00	0.00	0.01	5.09					
21	0	0.00	0.00	0.00	0.04	5.09					
22	0	0.00	0.00	0.00	0.02	5.09					
23	0	0.00	0.00	0.00	0.02	5.09					
24	0	0.00	0.00	0.00	0.01	5.09					
25	134,005	13.00	34.32	30.71	0.01	5.09					
26	146,683	14.00	36.96	30.21	0.01	4.50					
27	146,113	14.00	36.96	30.33	0.01	4.79					
28	132,361	13.00	34.32	31.09	0.01	5.12					
29	146,612	14.00	36.96	30.23	0.01	5.24					
30	146,796	14.00	36.96	30.19	0.01	5.24					
31	163,092	16.00	42.24	31.05	0.01	5.24					
Total	1,021,933	98.00	258.72								

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 4/1/13

Title: water test

Phone #: 508.376.8404

Fax: 508.376.2442

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period:

Month: March

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	165,777	16.00	42.24	30.55		7.50				
2	178,306	17.00	44.88	30.18		7.40				
3	185,726	18.00	47.52	30.68		7.40				
4	176,418	17.00	44.88	30.50		7.41				
5	154,044	15.00	39.60	30.82		7.41				
6	154,100	15.00	39.60	30.81		7.41				
7	155,450	15.00	39.60	30.54		7.40				
8	163,563	16.00	42.24	30.97		7.40				
9	163,716	16.00	42.24	30.94		7.40				
10	192,714	19.00	50.16	31.21		7.40				
11	156,784	15.00	39.60	30.28		7.40				
12	158,679	15.00	39.60	29.92		7.40				
13	162,117	16.00	42.24	31.24		7.40				
14	164,113	16.00	42.24	30.86		7.40				
15	158,856	15.00	39.60	29.89		7.40				
16	173,617	17.00	44.88	31.00		7.40				
17	192,976	18.00	47.52	29.53		7.40				
18	136,374	13.00	34.32	30.18		7.40				
19	151,867	15.00	39.60	31.27		7.40				
20	139,811	13.00	34.32	29.43		7.31				
21	136,933	13.00	34.32	30.05		7.40				
22	138,247	13.00	34.32	29.77		7.40				
23	134,083	12.00	31.68	28.33		7.40				
24	171,823	17.00	44.88	31.32		7.40				
25	113,327	11.00	29.04	30.73		7.40				
26	117,747	11.00	29.04	29.57		7.40				
27	114,339	11.00	29.04	30.45		7.41				
28	104,334	10.00	26.40	30.34		7.50				
29	118,368	11.00	29.04	29.42		7.49				
30	115,426	11.00	29.04	30.17		7.50				
31	131,506	13.00	34.32	31.29		7.49				
Total:	4,681,141	450.00	1188.00							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: March

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	209,797	20.00	52.80	30.18	0.05	7.49				
2	228,226	21.00	55.44	29.13	0.10	7.43				
3	237,177	22.00	58.08	29.36	0.10	7.43				
4	223,358	21.00	55.44	29.76	0.10	7.42				
5	196,304	18.00	47.52	29.03	0.10	7.41				
6	197,179	18.00	47.52	28.90	0.08	7.42				
7	197,579	18.00	47.52	28.84	0.09	7.42				
8	208,052	19.00	50.16	28.91	0.03	7.43				
9	208,052	19.00	50.16	28.91	0.02	7.42				
10	210,548	19.00	50.16	28.57	0.04	7.43				
11	219,011	20.00	52.80	28.91	0.03	7.44				
12	199,308	19.00	50.16	30.18	0.11	7.44				
13	199,230	19.00	50.16	30.19	0.04	7.44				
14	209,042	20.00	52.80	30.29	0.02	7.43				
15	200,964	20.00	52.80	31.50	0.03	7.42				
16	221,773	21.00	55.44	29.97	0.04	7.45				
17	247,699	23.00	60.72	29.39	0.04	7.45				
18	172,256	17.00	44.88	31.24	0.04	7.44				
19	196,732	19.00	50.16	30.57	0.04	7.46				
20	168,096	16.00	42.24	30.13	0.05	7.46				
21	173,628	17.00	44.88	30.99	0.05	7.47				
22	175,398	17.00	44.88	30.68	0.06	7.47				
23	174,204	17.00	44.88	30.89	0.05	7.48				
24	218,707	21.00	55.44	30.39	0.06	7.47				
25	138,787	13.00	34.32	29.65	0.05	7.48				
26	114,894	11.00	29.04	30.31	0.06	7.49				
27	134,389	12.00	31.68	28.27	0.06	7.49				
28	123,127	12.00	31.68	30.85	0.05	7.48				
29	139,195	13.00	34.32	29.56	0.04	7.48				
30	135,404	13.00	34.32	30.39	0.04	7.48				
31	155,078	15.00	39.60	30.62	0.04	7.49				
Total	5,833,196	550.00	1452.00							

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 1 & 2

Reporting Period:

Month: April

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%):

15%

Purchased Density²:

10.02

Manufacturer: univar

Product Name:

BORCHLOR 15%

Reason for Adding Chemical:

Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)				
1	183,017	0.50	0.75	0.49	0.05	7.54						
2	161,138	0.50	0.75	0.56	0.07	7.66						
3	194,683	0.50	0.75	0.46	0.07	7.63						
4	159,887	0.50	0.75	0.56	0.04	7.60						
5	170,552	0.50	0.75	0.53	0.06	7.60						
6	173,384	0.50	0.75	0.52	0.11	7.60						
7	197,569	0.50	0.75	0.46	0.09	7.60						
8	172,458	0.50	0.75	0.52	0.06	7.60						
9	161,779	0.50	0.75	0.56	0.07	7.60						
10	160,422	0.50	0.75	0.56	0.06	7.60						
11	169,859	0.50	0.75	0.53	0.06	7.60						
12	152,170	0.50	0.75	0.59	0.07	7.60						
13	168,930	0.50	0.75	0.53	0.06	7.60						
14	172,434	0.50	0.75	0.52	0.10	7.60						
15	170,854	0.50	0.75	0.53	0.04	7.60						
16	154,622	0.50	0.75	0.58	0.07	7.60						
17	172,521	0.50	0.75	0.52	0.07	7.60						
18	170,257	0.50	0.75	0.53	0.07	7.64						
19	147,904	0.50	0.75	0.61	0.06	7.66						
20	165,611	0.50	0.75	0.54	0.06	7.66						
21	195,426	0.50	0.75	0.46	0.06	7.66						
22	155,214	0.50	0.75	0.58	0.04	7.66						
23	154,835	0.50	0.75	0.58	0.04	7.66						
24	157,175	0.50	0.75	0.57	0.09	7.66						
25	156,247	0.50	0.75	0.58	0.24	7.54						
26	152,115	0.50	0.75	0.59	0.05	7.54						
27	179,120	0.50	0.75	0.50	0.02	7.54						
28	223,554	0.50	0.75	0.40	0.01	7.54						
29	171,322	0.50	0.75	0.53	0.02	7.54						
30	196,859	0.50	0.75	0.46	0.02	7.54						
31												
Total	5,121,918	15.00	22.55									

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date:

5/3/13

Title:

Water for

Phone #:

508 376 5404

Fax:

508 376 2442

Email:

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: April

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used (liters/day gal/day ³)	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	155,118	0.25	0.38	0.29	0.03	5.36					
2	31,562	0.00	0.00	0.00	0.08	5.34					
3	122,223	0.25	0.38	0.37	0.08	5.33					
4	129,679	0.25	0.38	0.35	0.03	5.17					
5	140,832	0.25	0.38	0.32	0.09	5.38					
6	144,914	0.25	0.38	0.31	0.09	5.39					
7	163,714	0.25	0.38	0.28	0.10	5.40					
8	144,180	0.25	0.38	0.31	0.10	5.41					
9	136,513	0.25	0.38	0.33	0.10	5.40					
10	134,223	0.25	0.38	0.34	0.10	5.39					
11	140,594	0.25	0.38	0.32	0.10	5.39					
12	127,729	0.25	0.38	0.35	0.10	5.41					
13	141,245	0.25	0.38	0.32	0.10	5.40					
14	142,424	0.25	0.38	0.32	0.10	5.41					
15	150,018	0.25	0.38	0.30	0.09	5.42					
16	130,834	0.25	0.38	0.34	0.43	5.42					
17	142,386	0.25	0.38	0.32	0.16	5.40					
18	141,015	0.25	0.38	0.32	0.35	5.40					
19	122,368	0.25	0.38	0.37	0.32	5.39					
20	136,781	0.25	0.38	0.33	0.32	5.38					
21	152,898	0.25	0.38	0.29	0.20	5.38					
22	141,681	0.25	0.38	0.32	0.20	5.40					
23	124,607	0.25	0.38	0.36	0.20	5.40					
24	130,065	0.25	0.38	0.35	0.20	5.39					
25	130,355	0.25	0.38	0.35	0.10	5.38					
26	134,558	0.25	0.37	0.33	0.29	5.37					
27	146,151	0.25	0.38	0.31	0.07	5.36					
28	182,844	0.25	0.38	0.25	0.23	5.37					
29	166,269	0.25	0.38	0.27	0.21	5.36					
30	162,807	0.25	0.38	0.28	0.28	5.36					
31											
Total	4,150,587	7.25	10.89								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 5/2/13

Title: Water Tech

Phone #: 508 376 5424

Fax: 508 376 2442

Email:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: April

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	143,718	0.25	0.38	0.31	0.04	7.38				
2	124,307	0.25	0.38	0.36	0.05	7.49				
3	128,766	0.25	0.38	0.35	0.07	7.48				
4	121,621	0.25	0.38	0.37	0.09	7.50				
5	130,269	0.25	0.38	0.35	0.10	7.51				
6	134,162	0.25	0.38	0.34	0.09	7.50				
7	152,254	0.25	0.38	0.30	0.10	7.50				
8	132,300	0.25	0.38	0.34	0.10	7.50				
9	126,568	0.25	0.38	0.36	0.10	7.51				
10	122,130	0.25	0.38	0.37	0.25	7.52				
11	130,484	0.25	0.38	0.35	0.08	7.51				
12	116,343	0.25	0.38	0.39	0.21	7.52				
13	130,304	0.25	0.38	0.35	0.16	7.51				
14	132,160	0.25	0.38	0.34	0.17	7.52				
15	131,143	0.25	0.38	0.34	0.18	7.52				
16	119,402	0.25	0.38	0.38	0.17	7.53				
17	131,233	0.25	0.38	0.34	0.17	7.54				
18	130,242	0.25	0.38	0.35	0.15	7.54				
19	163,299	0.25	0.38	0.28	0.13	7.54				
20	190,778	0.25	0.38	0.24	0.15	7.48				
21	214,047	0.25	0.38	0.21	0.14	7.40				
22	179,718	0.25	0.38	0.25	0.14	7.38				
23	175,596	0.25	0.38	0.26	0.12	7.36				
24	182,366	0.25	0.38	0.25	0.11	7.35				
25	176,343	0.25	0.38	0.26	0.08	7.37				
26	175,946	0.25	0.38	0.26	0.07	7.36				
27	204,703	0.25	0.38	0.22	0.05	7.37				
28	256,921	0.25	0.38	0.18	0.05	7.37				
29	206,585	0.25	0.38	0.22	0.04	7.38				
30	226,033	0.25	0.38	0.20	0.04	7.37				
31										
Total	4,689,740	7.50	11.27							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 5/3/13

Title: water fee

Phone #: 508376 5404

Fax: 508376 2442

Email:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: April

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	183,017	0.00	0.00	0.00	0.05	7.54					
2	161,138	0.00	0.00	0.00	0.07	7.66					
3	194,683	0.00	0.00	0.00	0.07	7.63					
4	159,887	0.00	0.00	0.00	0.04	7.60					
5	170,552	0.00	0.00	0.00	0.06	7.60					
6	173,384	0.00	0.00	0.00	0.11	7.60					
7	197,569	0.00	0.00	0.00	0.09	7.60					
8	172,458	0.00	0.00	0.00	0.06	7.60					
9	161,779	0.00	0.00	0.00	0.07	7.60					
10	160,422	0.00	0.00	0.00	0.06	7.60					
11	169,859	0.00	0.00	0.00	0.06	7.60					
12	152,170	0.00	0.00	0.00	0.07	7.60					
13	168,930	0.00	0.00	0.00	0.06	7.60					
14	172,434	0.00	0.00	0.00	0.10	7.60					
15	170,854	0.00	0.00	0.00	0.04	7.60					
16	154,622	0.00	0.00	0.00	0.07	7.60					
17	172,521	0.00	0.00	0.00	0.07	7.60					
18	170,257	0.00	0.00	0.00	0.07	7.64					
19	147,904	0.00	0.00	0.00	0.06	7.66					
20	165,611	0.00	0.00	0.00	0.06	7.66					
21	195,426	0.00	0.00	0.00	0.06	7.66					
22	155,214	0.00	0.00	0.00	0.04	7.66					
23	154,835	0.00	0.00	0.00	0.04	7.66					
24	157,175	0.00	0.00	0.00	0.09	7.66					
25	156,247	0.00	0.00	0.00	0.24	7.54					
26	152,115	0.00	0.00	0.00	0.05	7.54					
27	179,120	0.00	0.00	0.00	0.02	7.54					
28	223,554	0.00	0.00	0.00	0.01	7.54					
29	171,322	0.00	0.00	0.00	0.02	7.54					
30	196,859	0.00	0.00	0.00	0.02	7.54					
31	0										
Total	5,121,918	0.00	0.00								

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

508 376 9404

Fax:

508 376 2442

Date:

5/3/13

Title:

Water Tech

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well3

Reporting Period: Month: April

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name:

CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	155,118	15.00	39.60	30.61	0.03	5.36					
2	31,562	3.00	7.92	30.09	0.02	5.34					
3	122,223	12.00	31.68	31.08	0.02	5.33					
4	129,679	12.00	31.68	29.29	0.03	5.17					
5	140,832	14.00	36.96	31.47	0.01	5.38					
6	144,914	14.00	36.96	30.58	0.01	5.39					
7	163,714	16.00	42.24	30.94	0.10	5.40					
8	144,180	14.00	36.96	30.74	0.10	5.41					
9	136,513	13.00	34.32	30.14	0.10	5.40					
10	134,223	13.00	34.32	30.66	0.10	5.39					
11	140,594	14.00	36.96	31.52	0.10	5.39					
12	127,729	12.00	31.68	29.74	0.10	5.41					
13	141,245	14.00	36.96	31.38	0.10	5.40					
14	142,424	14.00	36.96	31.12	0.10	5.41					
15	150,018	15.00	39.60	31.65	0.01	5.42					
16	130,834	13.00	34.32	31.45	0.43	5.42					
17	142,386	14.00	36.96	31.12	0.16	5.40					
18	141,015	14.00	36.96	31.43	0.35	5.40					
19	122,368	12.00	31.68	31.04	0.32	5.39					
20	136,781	13.00	34.32	30.09	0.32	5.38					
21	152,898	15.00	39.60	31.05	0.01	5.38					
22	141,681	14.00	36.96	31.28	0.01	5.40					
23	124,607	12.00	31.68	30.48	0.20	5.40					
24	130,065	13.00	34.32	31.64	0.20	5.39					
25	130,355	13.00	34.32	31.57	0.10	5.38					
26	134,558	13.00	34.32	30.58	0.00	5.37					
27	146,151	14.00	36.96	30.32	0.07	5.36					
28	182,844	18.00	47.52	31.16	0.00	5.37					
29	166,269	16.00	42.24	30.46	0.00	5.36					
30	162,807	14.00	36.96	27.22	0.28	5.36					
31											
Total	4,150,587	403.00	1063.92								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508 376 8474

Date:

5/3/13

Title:

Water Tech

Fax:

508 376 2492

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period:

Month: April

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name:

CAUSTIC SODA

Reason for Adding Chemical:

PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	121,056	12.00	31.68	31.38		7.48				
2	105,754	10.00	26.40	29.93		7.49				
3	114,814	11.00	29.04	30.33		7.50				
4	104,774	10.00	26.40	30.21		7.41				
5	113,647	11.00	29.04	30.64		7.40				
6	114,186	11.00	29.04	30.49		7.40				
7	133,848	13.00	34.32	30.74		7.40				
8	109,941	10.00	26.40	28.79		7.47				
9	107,294	10.00	26.40	29.50		7.50				
10	105,271	10.00	26.40	30.07		7.50				
11	110,794	11.00	29.04	31.43		7.50				
12	97,997	9.00	23.76	29.07		7.50				
13	109,644	10.00	26.40	28.87		7.50				
14	113,210	11.00	29.04	30.76		7.50				
15	111,987	11.00	29.04	31.09		7.50				
16	101,353	10.00	26.40	31.23		7.50				
17	116,629	11.00	29.04	29.86		7.50				
18	111,150	11.00	29.04	31.33		7.50				
19	96,016	9.00	23.76	29.67		7.50				
20	116,436	11.00	29.04	29.90		7.50				
21	129,860	12.00	31.68	29.25		7.50				
22	103,499	12.00	31.68	36.70		7.50				
23	102,077	10.00	26.40	31.01		7.50				
24	102,146	10.00	26.40	30.99		7.50				
25	102,899	10.00	26.40	30.76		7.51				
26	100,361	10.00	26.40	31.54		7.50				
27	116,214	11.00	29.04	29.96		7.52				
28	146,835	14.00	36.96	30.18		7.50				
29	116,299	11.00	29.04	29.94		7.50				
30	128,772	12.00	31.68	29.50		7.51				
31										
Total	3,364,763	324.00	855.36							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date:

5/3/13

Title:

water tech

Phone #:

508376 5404

Fax:

508376 2442

Email:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: April

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	143,718	14.00	36.96	30.84	0.04	7.38				
2	124,307	12.00	31.68	30.56	0.05	7.49				
3	128,766	12.00	31.68	29.50	0.07	7.48				
4	121,621	12.00	31.68	31.23	0.09	7.50				
5	130,269	13.00	34.32	31.59	0.10	7.51				
6	134,162	13.00	34.32	30.67	0.09	7.50				
7	152,254	15.00	39.60	31.19	0.10	7.50				
8	132,300	13.00	34.32	31.10	0.10	7.50				
9	126,568	12.00	31.68	30.01	0.10	7.51				
10	122,130	12.00	31.68	31.10	0.25	7.52				
11	130,484	13.00	34.32	31.54	0.08	7.51				
12	116,343	11.00	29.04	29.93	0.21	7.52				
13	130,304	13.00	34.32	31.58	0.16	7.51				
14	132,160	13.00	34.32	31.14	0.17	7.52				
15	131,143	13.00	34.32	31.38	0.18	7.52				
16	119,402	11.00	29.04	29.16	0.17	7.53				
17	131,233	13.00	34.32	31.36	0.17	7.54				
18	130,242	12.00	31.68	29.17	0.15	7.54				
19	163,299	16.00	42.24	31.02	0.13	7.54				
20	190,778	19.00	50.16	31.53	0.15	7.48				
21	214,047	21.00	55.44	31.06	0.14	7.40				
22	179,718	17.00	44.88	29.94	0.14	7.38				
23	175,596	17.00	44.88	30.65	0.12	7.36				
24	182,366	17.00	44.88	29.51	0.11	7.35				
25	176,343	16.00	42.24	28.72	0.08	7.37				
26	175,946	17.00	44.88	30.58	0.07	7.36				
27	204,703	20.00	52.80	30.93	0.05	7.37				
28	256,921	24.00	63.36	29.57	0.05	7.37				
29	206,585	20.00	52.80	30.65	0.04	7.38				
30	226,033	20.00	52.80	28.01	0.04	7.37				
31	0									
Total	4,689,740	451.00	1190.64							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508 376 5904

Fax:

508 376 2442

Date:

5/3/13

Title:

Water Test

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

COPY

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: May

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	208,041	0.00	0.00	0.00	0.02	7.58				
2	187,105	0.00	0.00	0.00	0.04	7.54				
3	184,339	0.00	0.00	0.00	0.05	7.54				
4	271,864	0.00	0.00	0.00	0.06	7.54				
5	298,084	0.00	0.00	0.00	0.06	7.54				
6	214,001	0.00	0.00	0.00	0.06	7.54				
7	185,829	0.00	0.00	0.00	0.06	7.54				
8	181,908	0.00	0.00	0.00	0.06	7.58				
9	172,893	0.00	0.00	0.00	0.05	7.58				
10	153,127	0.00	0.00	0.00	0.02	7.58				
11	182,382	0.00	0.00	0.00	0.02	7.58				
12	204,633	0.00	0.00	0.00	0.02	7.58				
13	185,790	0.00	0.00	0.00	0.02	7.58				
14	196,402	0.00	0.00	0.00	0.02	7.58				
15	171,383	0.00	0.00	0.00	0.02	7.58				
16	219,883	0.00	0.00	0.00	0.02	7.58				
17	182,634	0.00	0.00	0.00	0.02	7.58				
18	220,026	0.00	0.00	0.00	0.02	7.58				
19	220,775	0.00	0.00	0.00	0.02	7.58				
20	204,229	0.00	0.00	0.00	0.02	7.58				
21	174,940	0.00	0.00	0.00	0.02	7.58				
22	160,194	0.00	0.00	0.00	0.02	7.58				
23	164,141	0.00	0.00	0.00	0.02	7.58				
24	146,625	0.00	0.00	0.00	0.02	7.58				
25	161,059	0.00	0.00	0.00	0.02	7.58				
26	224,754	0.00	0.00	0.00	0.02	7.58				
27	230,165	0.00	0.00	0.00	0.02	7.58				
28	257,695	0.00	0.00	0.00	0.02	7.58				
29	184,089	0.00	0.00	0.00	0.02	7.58				
30	202,528	0.00	0.00	0.00	0.03	7.58				
31	202,766	0.00	0.00	0.00	0.02	7.58				
Total	6,154,283	0.00	0.00							

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature: _____

Phone #: _____

Fax: _____

Date: 6/8/13

Title: water tech

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Well3

Reporting Period: Month: May

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	171.448	17.00	44.88	31.39	0.25	5.33				
2	154.252	15.00	39.60	30.78	0.24	5.36				
3	152.984	15.00	39.60	31.04	0.25	5.38				
4	30.043	3.00	7.92	31.61	0.28	5.43				
5	0	0.00	0.00	0.00	0.23	5.47				
6	150.972	15.00	39.60	31.45	0.16	5.48				
7	153.357	15.00	39.60	30.96	0.15	5.29				
8	153.201	15.00	39.60	30.99	0.15	5.25				
9	132.531	13.00	34.32	31.05	0.15	5.23				
10	124.463	12.00	31.68	30.52	0.15	5.25				
11	148.025	14.00	36.96	29.94	0.15	5.24				
12	167.381	16.00	42.24	30.26	0.00	5.25				
13	160.238	16.00	42.24	31.61	0.00	5.25				
14	162.325	16.00	42.24	31.20	0.00	5.26				
15	167.712	16.00	42.24	30.20	0.22	5.29				
16	180.998	18.00	47.52	31.48	0.22	5.29				
17	148.448	14.00	36.96	29.85	0.22	5.28				
18	180.841	18.00	47.52	31.51	0.34	5.28				
19	182.148	18.00	47.52	31.28	0.48	5.30				
20	165.738	16.00	42.24	30.56	0.53	5.36				
21	149.970	14.00	36.96	29.55	1.26	5.35				
22	211.402	21.00	55.44	31.44	1.26	5.35				
23	135.239	13.00	34.32	30.43	0.70	5.35				
24	118.258	11.00	29.04	29.44	0.24	5.36				
25	130.007	13.00	34.32	31.65	0.38	5.37				
26	189.627	18.00	47.52	30.05	0.14	5.36				
27	190.019	19.00	50.16	31.65	0.16	5.39				
28	220.291	22.00	58.08	31.61	0.21	5.39				
29	155.200	15.00	39.60	30.59	0.12	5.39				
30	168.203	16.00	42.24	30.11	0.21	5.38				
31	167.589	16.00	42.24	30.22	0.11	5.36				
Total	4,722.910	460.00	1214.40							

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature: _____

Phone #: _____

Fax: _____

Date: 6/8/13

Title: water fed

Email: _____

PWS INFORMATION:

PWS ID#: 2187000 PWS Name: Public Works Department PWS Town: Millis
 Treatment Facility Name: Well4 Reporting Period: Month: May Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide Purchased Strength (%): 25% Purchased Density²: 10.56
 Manufacturer: UNIVAR Product Name: CAUSTIC SODA
 Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	69,109	6.00	15.84	27.48		7.58				
2	131,485	12.00	31.68	28.89		7.40				
3	122,256	11.00	29.04	28.48		7.47				
4	161,981	15.00	39.60	29.31		7.44				
5	185,505	17.00	44.88	29.01		7.53				
6	139,883	12.00	31.68	27.16		7.54				
7	122,943	11.00	29.04	28.32		7.55				
8	118,275	10.00	26.40	26.76		7.51				
9	103,564	10.00	26.40	30.57		7.50				
10	102,290	10.00	26.40	30.95		7.50				
11	119,460	11.00	29.04	29.15		7.50				
12	132,511	13.00	34.32	31.05		7.50				
13	123,022	12.00	31.68	30.88		7.50				
14	124,877	12.00	31.68	30.42		7.50				
15	119,029	11.00	29.04	29.25		7.50				
16	142,475	14.00	36.96	31.10		7.61				
17	120,094	12.00	31.68	31.63		7.58				
18	148,615	14.00	36.96	29.82		7.58				
19	144,587	14.00	36.96	30.65		7.60				
20	144,703	14.00	36.96	30.63		7.59				
21	113,870	11.00	29.04	30.58		7.54				
22	102,887	10.00	26.40	30.77		7.50				
23	117,703	11.00	29.04	29.58		7.50				
24	90,934	9.00	23.76	31.33		7.50				
25	106,462	10.00	26.40	29.73		7.50				
26	145,502	14.00	36.96	30.46		7.50				
27	149,082	14.00	36.96	29.73		7.50				
28	166,929	16.00	42.24	30.34		7.50				
29	120,228	12.00	31.68	31.59		7.50				
30	134,741	13.00	34.32	30.54		7.50				
31	130,830	13.00	34.32	31.45		7.50				
Total	3,955,832	374.00	987.36							

Notes: 1. A separate report is required for each chemical added for each facility.
 2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
 3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
 4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: _____

Phone #: _____

Fax: _____

Date: 6/8/13

Title: Water Superintendent

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: May

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	242,261	21.00	55.44	27.44	0.14	7.44				
2	214,842	18.00	47.52	26.52	0.03	7.43				
3	212,266	18.00	47.52	26.84	0.05	7.38				
4	294,922	24.00	63.36	25.76	0.05	7.39				
5	348,698	28.00	73.92	25.42	0.07	7.42				
6	247,328	21.00	55.44	26.88	0.08	7.43				
7	216,340	18.00	47.52	26.34	0.08	7.40				
8	208,046	17.00	44.88	25.87	0.07	7.40				
9	183,708	14.00	36.96	24.12	0.08	7.40				
10	172,464	15.00	39.60	27.53	0.08	7.39				
11	208,201	18.00	47.52	27.37	0.11	7.41				
12	236,147	23.00	60.72	30.83	0.17	7.40				
13	211,420	21.00	55.44	31.44	0.10	7.41				
14	227,632	22.00	58.08	30.59	0.10	7.40				
15	194,398	19.00	50.16	30.94	0.09	7.40				
16	254,147	25.00	66.00	31.14	0.21	7.42				
17	210,863	21.00	55.44	31.53	0.31	7.42				
18	254,674	25.00	66.00	31.07	0.43	7.43				
19	254,443	25.00	66.00	31.10	0.27	7.43				
20	235,073	23.00	60.72	30.97	0.27	7.43				
21	203,173	20.00	52.80	31.16	0.06	7.42				
22	182,209	18.00	47.52	31.27	0.02	7.42				
23	187,414	18.00	47.52	30.40	0.12	7.41				
24	133,866	13.00	34.32	30.74	0.11	7.42				
25	184,616	18.00	47.52	30.86	0.10	7.43				
26	184,616	18.00	47.52	30.86	0.12	7.41				
27	181,515	18.00	47.52	31.39	0.14	7.44				
28	35,305	3.00	7.92	26.90	0.09	7.29				
29	161,874	16.00	42.24	31.29	0.06	7.42				
30	235,072	23.00	60.72	30.97	0.07	7.46				
31	234,983	23.00	60.72	30.98	0.14	7.43				
Total	6,552,515	604.00	1594.56							

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just prior to time of chemical addition.

PWS Authorized Signature: _____

Phone #: _____

Fax: _____

Date: 6/8/13

Title: water tech

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

COPY C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: May

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	208,041	1.00	1.50	0.87	0.02	7.58					
2	187,105	0.50	0.75	0.48	0.04	7.54					
3	184,339	0.50	0.75	0.49	0.05	7.54					
4	271,864	1.25	1.88	0.83	0.06	7.54					
5	298,084	1.25	1.88	0.76	0.06	7.54					
6	214,001	1.00	1.50	0.84	0.06	7.54					
7	185,829	0.50	0.75	0.48	0.06	7.54					
8	181,908	0.50	0.75	0.50	0.06	7.58					
9	172,893	0.50	0.75	0.52	0.05	7.58					
10	153,127	0.50	0.75	0.59	0.02	7.58					
11	182,382	0.50	0.75	0.49	0.02	7.58					
12	204,633	1.00	1.50	0.88	0.02	7.58					
13	185,790	0.50	0.75	0.48	0.02	7.58					
14	196,402	0.50	0.75	0.46	0.02	7.58					
15	171,383	0.50	0.75	0.53	0.02	7.58					
16	219,883	1.00	1.50	0.82	0.02	7.58					
17	182,634	0.50	0.75	0.49	0.02	7.58					
18	220,026	1.00	1.50	0.82	0.02	7.58					
19	220,775	1.00	1.50	0.82	0.02	7.58					
20	204,229	1.00	1.50	0.88	0.02	7.58					
21	174,940	0.50	0.75	0.52	0.02	7.58					
22	160,194	0.50	0.75	0.56	0.02	7.58					
23	164,141	0.50	0.75	0.55	0.02	7.58					
24	146,625	0.50	0.75	0.61	0.02	7.58					
25	161,059	0.50	0.75	0.56	0.02	7.58					
26	224,754	1.00	1.50	0.80	0.02	7.58					
27	230,165	1.00	1.50	0.78	0.02	7.58					
28	257,695	1.00	1.50	0.70	0.02	7.58					
29	184,089	0.50	0.75	0.49	0.02	7.58					
30	202,528	1.00	1.50	0.89	0.03	7.58					
31	202,766	1.00	1.50	0.89	0.02	7.58					
Total	6,154,283	23.00	34.57								

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature: _____

Phone #: _____

Fax: _____

Date: 6/8/13

Title: notated

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 3

Reporting Period:

Month: May

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical:

Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	171,448	0.50	0.75	0.53	0.25	7.00					
2	154,252	0.50	0.75	0.58	0.24	7.00					
3	152,984	0.50	0.75	0.59	0.25	7.00					
4	30,043	0.00	0.00	0.00	0.28	7.00					well off
5	0	0.00	0.00	0.00	0.23	7.00					
6	150,972	0.50	0.75	0.60	0.16	7.00					
7	153,357	0.50	0.75	0.59	0.16	7.00					
8	153,201	0.50	0.75	0.59	0.16	7.00					
9	132,531	0.25	0.38	0.34	0.15	7.00					
10	124,463	0.25	0.38	0.36	0.15	7.00					
11	148,025	0.25	0.38	0.30	0.15	7.00					
12	167,381	0.50	0.75	0.54	0.00	7.00					
13	160,238	0.50	0.75	0.56	0.00	7.00					
14	162,325	0.50	0.75	0.56	0.00	7.00					
15	167,712	0.50	0.75	0.54	0.22	7.00					
16	180,998	0.50	0.75	0.50	0.22	7.00					
17	148,448	0.50	0.75	0.61	0.22	7.00					
18	180,841	0.50	0.75	0.50	0.34	7.00					
19	182,148	0.50	0.75	0.49	0.48	7.00					
20	165,738	0.50	0.75	0.54	0.53	7.00					
21	149,970	0.50	0.75	0.60	1.26	7.00					
22	211,402	0.50	0.75	0.43	1.26	7.00					
23	135,239	0.50	0.75	0.67	0.70	7.00					
24	118,258	0.50	0.75	0.76	0.24	7.00					
25	130,007	0.50	0.75	0.69	0.38	7.00					
26	189,627	0.50	0.75	0.48	0.14	7.00					
27	190,019	0.50	0.75	0.47	0.16	7.00					
28	220,291	0.50	0.75	0.41	0.21	7.00					
29	155,200	0.50	0.75	0.58	0.12	7.00					
30	168,203	0.50	0.75	0.54	0.21	7.00					
31	167,589	0.50	0.75	0.54	0.11	7.00					
Total	4,722,910	13.75	20.67								

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Fax:

Date: 6/8/13

Title: water

Email:

Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: **2187000**

PWS Name: **Public Works Department**

PWS Town: **Millis**

Treatment Facility Name:

Wells 5 & 6

Reporting Period:

Month: **May**

Year: **2013**

II. DAILY REPORTING:

Chemical Name¹: **Sodium Hypochlorite**

Purchased Strength (%):

15%

Purchased Density²: **10.02**

Manufacturer: **BORDEN & REMINGTON**

Product Name:

BORCHLOR 15%

Reason for Adding Chemical:

Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	242,261	0.50	0.75	0.37	0.14	7.44					
2	214,842	0.50	0.75	0.42	0.03	7.43					
3	212,266	0.50	0.75	0.42	0.05	7.38					
4	294,922	0.50	0.75	0.31	0.05	7.39					
5	348,698	0.50	0.75	0.26	0.07	7.42					
6	247,328	0.50	0.75	0.36	0.08	7.43					
7	216,340	0.50	0.75	0.42	0.08	7.40					
8	208,046	0.50	0.75	0.43	0.07	7.40					
9	183,708	0.50	0.75	0.49	0.08	7.40					
10	172,464	0.50	0.75	0.52	0.08	7.39					
11	208,201	0.50	0.75	0.43	0.11	7.41					
12	236,147	1.00	1.50	0.76	0.17	7.40					
13	211,420	1.00	1.50	0.85	0.10	7.41					
14	227,632	1.00	1.50	0.79	0.10	7.40					
15	194,398	1.00	1.50	0.93	0.09	7.40					
16	254,147	1.00	1.50	0.71	0.21	7.42					
17	210,863	1.00	1.50	0.85	0.31	7.42					
18	254,674	1.00	1.50	0.71	0.43	7.43					
19	254,443	1.00	1.50	0.71	0.27	7.43					
20	235,073	1.00	1.50	0.77	0.27	7.43					
21	203,173	1.00	1.50	0.89	0.06	7.42					
22	182,209	0.50	0.75	0.49	0.02	7.42					
23	187,414	0.50	0.75	0.48	0.12	7.41					
24	133,866	0.50	0.75	0.67	0.11	7.42					
25	184,616	0.50	0.75	0.49	0.10	7.43					
26	184,616	0.50	0.75	0.49	0.12	7.41					
27	181,515	0.50	0.75	0.50	0.14	7.44					
28	35,305	0.00	0.00	0.00	0.09	7.29					
29	161,874	0.50	0.75	0.56	0.06	7.42					
30	235,072	1.00	1.50	0.77	0.07	7.46					
31	234,983	1.00	1.50	0.77	0.14	7.43					
Total	6,552,515	21.00	31.56								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals.

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day).

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: _____

Phone #: _____

Fax: _____

Date: **6/8/13**

Title: **Water Tech**

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD



PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 5 & 6

Reporting Period: Month: June

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day³	Chemical Dosage (lbs/day)³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable⁴						Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO₄) (mg/L)	Other		
1	280,173	26.00	68.64	29.38	0.08	7.59					
2	285,677	24.00	63.36	26.59	0.11	7.45					
3	191,617	17.00	44.88	28.08	0.14	7.46					
4	236,039	21.00	55.44	28.16	0.19	7.44					
5	236,242	21.00	55.44	28.14	0.21	7.44					
6	210,001	19.00	50.16	28.64	0.23	7.45					
7	171,810	15.00	39.60	27.64	0.20	7.44					
8	189,522	17.00	44.88	28.39	0.13	7.44					
9	254,826	23.00	60.72	28.57	0.14	7.41					
10	188,788	16.00	42.24	26.83	0.14	7.40					
11	179,679	15.00	39.60	26.43	0.12	7.42					
12	203,267	18.00	47.52	28.03	0.17	7.42					
13	168,218	16.00	42.24	30.11	0.16	7.42					
14	166,216	16.00	42.24	30.47	0.14	7.44					
15	209,834	18.00	47.52	27.15	0.09	7.43					
16	250,142	23.00	60.72	29.11	0.12	7.45					
17	212,182	20.00	52.80	29.84	0.19	7.48					
18	174,895	16.00	42.24	28.96	0.10	7.51					
19	264,310	23.00	60.72	27.55	0.11	7.54					
20	216,208	20.00	52.80	29.28	0.09	7.56					
21	211,432	21.00	55.44	31.44	0.10	7.55					
22	260,130	26.00	68.64	31.64	0.12	7.56					
23	323,030	29.00	76.56	28.42	0.18	7.58					
24	361,238	32.00	84.48	28.04	0.15	7.59					
25	253,588	25.00	66.00	31.21	0.14	7.60					
26	235,406	23.00	60.72	30.93	0.08	7.58					
27	242,752	24.00	63.36	31.30	0.08	7.56					
28	250,996	25.00	66.00	31.53	0.08	7.56					
29	312,500	32.00	84.48	32.41	0.09	7.59					
30	324,524	30.00	79.20	29.26	0.08	7.59					
31	0										
Total	7,065,243	651.00	1718.64	Notes: 1. A separate report is required for each chemical added for each facility.							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

508 376 5404

Fax:

508 376 2442

Date:

7/8/13

Title:

water tech

Email:

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

PWS INFORMATION:

C-ADD

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: June

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%):

15%

Manufacturer: univar

Product Name:

BORCHLOR 15%

Purchased Density²: 10.02

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴						Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.	
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other			
1	226,081	1.00	1.50	0.80	0.39	7.39						
2	247,097	1.00	1.50	0.73	0.05	7.58						
3	164,035	0.50	0.75	0.55	0.05	7.58						
4	179,444	0.25	0.38	0.25	0.05	7.58						
5	203,423	0.25	0.38	0.22	0.05	7.58						
6	183,208	0.25	0.38	0.25	0.05	7.58						
7	149,336	0.25	0.38	0.30	0.05	7.58						
8	163,734	0.25	0.38	0.28	0.05	7.58						
9	225,498	0.25	0.38	0.20	0.05	7.58						
10	159,468	0.25	0.38	0.28	0.05	7.58						
11	154,869	0.25	0.38	0.29	0.05	7.58						
12	175,672	0.25	0.38	0.26	0.05	7.58						
13	166,774	0.25	0.38	0.27	0.05	7.58						
14	140,657	0.25	0.38	0.25	0.05	7.58						
15	177,017	0.25	0.38	0.25	0.05	7.58						
16	155,591	0.25	0.38	0.29	0.05	7.58						
17	152,924	0.25	0.38	0.29	0.05	7.58						
18	149,908	0.25	0.38	0.30	0.05	7.47						
19	230,496	0.50	0.75	0.39	0.03	7.47						
20	206,139	0.50	0.75	0.44	0.03	7.47						
21	178,814	0.25	0.38	0.25	0.14	7.47						
22	221,507	0.25	0.38	0.20	0.33	7.47						
23	271,588	0.50	0.75	0.33	0.12	7.47						
24	294,042	0.50	0.75	0.31	0.11	7.47						
25	216,614	0.50	0.75	0.42	0.12	7.47						
26	215,161	0.50	0.75	0.42	0.04	7.41						
27	203,065	0.50	0.75	0.44	0.13	7.39						
28	201,429	0.50	0.75	0.45	0.33	7.39						
29	257,480	0.50	0.75	0.35	0.37	7.38						
30	275,054	0.50	0.75	0.33	0.39	7.41						
31												
Total	5,946,125	11.75	17.66	Notes: 1. A separate report is required for each chemical added for each facility.								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals.

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day).

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Fax:

Title:

Email:

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: June

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	190,200	0.50	0.75	0.47	0.15	7.00				
2	208,652	0.75	1.13	0.65	0.18	7.00				
3	134,997	0.50	0.75	0.67	0.20	7.00				
4	165,791	0.50	0.75	0.54	0.32	7.00				
5	168,560	0.50	0.75	0.53	0.32	7.00				
6	149,403	0.50	0.75	0.60	0.36	7.00				
7	117,039	0.50	0.75	0.77	0.27	7.00				
8	134,395	0.50	0.75	0.67	0.17	7.00				
9	180,674	0.50	0.75	0.50	0.32	7.00				
10	133,305	0.50	0.75	0.68	0.31	7.00				
11	126,943	0.50	0.75	0.71	0.21	7.00				
12	154,481	0.50	0.75	0.58	0.29	7.00				
13	117,231	0.50	0.75	0.77	0.25	7.00				
14	122,556	0.50	0.75	0.74	0.33	7.00				
15	145,642	0.50	0.75	0.62	0.35	7.00				
16	175,695	0.50	0.75	0.51	0.31	7.00				
17	148,712	0.50	0.75	0.61	0.34	7.00				
18	144,286	0.50	0.75	0.62	0.38	7.00				
19	34,109	0.00	0.00	0.00	0.32	7.00				
20	150,273	0.50	0.75	0.60	0.31	7.00				
21	152,482	0.50	0.75	0.59	0.32	7.00				
22	181,894	0.50	0.75	0.50	0.23	7.00				
23	229,347	0.75	1.13	0.59	0.18	7.00				
24	0	0.00	0.00	0.00	0.07	7.00				
25	173,043	0.50	0.75	0.52	0.18	7.00				
26	167,177	0.50	0.75	0.54	0.18	7.00				
27	48,292	0.00	0.00	0.00	0.18	7.00				
28	2,890	0.00	0.00	0.00	0.18	7.00				
29	0	0.00	0.00	0.00	0.18	7.00				
30	0	0.00	0.00	0.00	0.18	7.00				
31										
Total	3,858,069	12.50	18.79							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508.376.3124

Fax:

508.376.2442

Date:

7/8/13

Title:

Water Treatment

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: June

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	280,173	1.00	1.50	0.64	0.08	7.59					
2	285,677	1.00	1.50	0.63	0.11	7.45					
3	191,617	0.50	0.75	0.47	0.14	7.46					
4	236,039	1.00	1.50	0.76	0.19	7.44					
5	236,242	1.00	1.50	0.76	0.21	7.44					
6	210,001	0.50	0.75	0.43	0.23	7.45					
7	171,810	0.50	0.75	0.52	0.20	7.44					
8	189,522	0.50	0.75	0.48	0.13	7.44					
9	254,826	1.00	1.50	0.71	0.14	7.41					
10	188,788	0.50	0.75	0.48	0.14	7.40					
11	179,679	0.50	0.75	0.50	0.12	7.42					
12	203,267	0.50	0.75	0.44	0.17	7.42					
13	168,218	0.50	0.75	0.54	0.16	7.42					
14	166,216	0.50	0.75	0.54	0.14	7.44					
15	209,834	0.75	1.13	0.64	0.09	7.43					
16	250,142	1.00	1.50	0.72	0.12	7.45					
17	212,182	0.75	1.13	0.64	0.19	7.48					
18	174,895	0.50	0.75	0.52	0.10	7.51					
19	264,310	1.00	1.50	0.68	0.11	7.54					
20	216,208	0.75	1.13	0.63	0.09	7.56					
21	211,432	0.75	1.13	0.64	0.10	7.55					
22	260,130	1.00	1.50	0.69	0.12	7.56					
23	323,030	1.25	1.88	0.70	0.18	7.58					
24	361,238	1.25	1.88	0.62	0.15	7.59					
25	253,588	0.50	0.75	0.36	0.14	7.60					
26	235,406	0.50	0.75	0.38	0.08	7.58					
27	242,752	0.50	0.75	0.37	0.08	7.56					
28	250,996	0.50	0.75	0.36	0.08	7.56					
29	312,500	0.50	0.75	0.29	0.09	7.59					
30	324,524	0.50	0.75	0.28	0.08	7.59					
31											
Total	7,065,243	21.50	32.31								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just down stream of chemical addition.

PWS Authorized Signature:

Date: 7/5/13

Title: Water Tech

Phone #: 508 376 5434

Fax: 508 376 2442

Email:

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

COPY

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 1 & 2

Reporting Period: Month: June

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	226,081	0.00	0.00	0.00	0.39	7.39					
2	247,097	0.00	0.00	0.00	0.05	7.58					
3	164,035	0.00	0.00	0.00	0.05	7.58					
4	179,444	0.00	0.00	0.00	0.05	7.58					
5	203,423	0.00	0.00	0.00	0.05	7.58					
6	183,208	0.00	0.00	0.00	0.05	7.58					
7	149,336	0.00	0.00	0.00	0.05	7.58					
8	163,734	0.00	0.00	0.00	0.05	7.58					
9	225,498	0.00	0.00	0.00	0.05	7.58					
10	159,468	0.00	0.00	0.00	0.05	7.58					
11	154,869	0.00	0.00	0.00	0.05	7.58					
12	175,672	0.00	0.00	0.00	0.05	7.58					
13	166,774	0.00	0.00	0.00	0.05	7.58					
14	140,657	0.00	0.00	0.00	0.05	7.58					
15	177,017	0.00	0.00	0.00	0.05	7.58					
16	155,591	0.00	0.00	0.00	0.05	7.58					
17	152,924	0.00	0.00	0.00	0.05	7.58					
18	149,908	0.00	0.00	0.00	0.05	7.47					
19	230,496	0.00	0.00	0.00	0.03	7.47					
20	206,139	0.00	0.00	0.00	0.03	7.47					
21	178,814	0.00	0.00	0.00	0.14	7.47					
22	221,507	0.00	0.00	0.00	0.33	7.47					
23	271,588	0.00	0.00	0.00	0.12	7.47					
24	294,042	0.00	0.00	0.00	0.11	7.47					
25	216,614	0.00	0.00	0.00	0.12	7.47					
26	215,161	0.00	0.00	0.00	0.04	7.41					
27	203,065	0.00	0.00	0.00	0.13	7.39					
28	201,429	0.00	0.00	0.00	0.33	7.39					
29	257,480	0.00	0.00	0.00	0.37	7.38					
30	275,054	0.00	0.00	0.00	0.39	7.41					
31	0										
Total	5,946,125	0.00	0.00								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/R³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lbs/day)

4. Enter the appropriate parameter that is monitored just down stream of chemical addition.

PWS Authorized Signature:

Date: 7/8/13

Title: *united*

Phone #: 508 376 3424

Fax: 508 376 2442

Email:

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well3

Reporting Period: Month: June

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name:

CAUSTIC SODA

Reason for Adding Chemical:

PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	190,200	19.00	50.16	31.62	0.15	7.00				
2	208,652	20.00	52.80	30.34	0.18	7.00				
3	134,997	13.00	34.32	30.48	0.20	7.00				
4	165,791	16.00	42.24	30.55	0.32	7.00				
5	168,560	16.00	42.24	30.05	0.32	7.00				
6	149,403	14.00	36.96	29.66	0.36	7.00				
7	117,039	11.00	29.04	29.75	0.27	7.00				
8	134,395	13.00	34.32	30.62	0.17	7.00				
9	180,674	18.00	47.52	31.54	0.32	7.00				
10	133,305	13.00	34.32	30.87	0.31	7.00				
11	126,943	12.00	31.68	29.92	0.21	7.00				
12	154,481	15.00	39.60	30.74	0.29	7.00				
13	117,231	11.00	29.04	29.70	0.25	7.00				
14	122,556	12.00	31.68	30.99	0.33	7.00				
15	145,642	14.00	36.96	30.43	0.35	7.00				
16	175,695	17.00	44.88	30.63	0.31	7.00				
17	148,712	14.00	36.96	29.80	0.34	7.00				
18	144,286	14.00	36.96	30.71	0.38	7.00				
19	34,109	3.00	7.92	27.84	0.32	7.00				
20	150,273	15.00	39.60	31.60	0.31	7.00				
21	152,482	15.00	39.60	31.14	0.32	7.00				
22	181,894	18.00	47.52	31.33	0.23	7.00				
23	229,347	22.00	58.08	30.36	0.18	7.00				
24	0	0.00	0.00	0.00	0.18	7.00				
25	173,043	17.00	44.88	31.10	0.18	7.00				
26	167,177	16.00	42.24	30.30	0.18	7.00				
27	48,292	4.00	10.56	26.22	0.18	7.00				
28	2,890	0.00	0.00	0.00	0.18	7.00				
29	0	0.00	0.00	0.00	0.18	7.00				
30	0	0.00	0.00	0.00	0.18	7.00				
31										
Total	3,858,069	372.00	982.08							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

5083765424

Fax:

5083762442

Date:

7/8/13

Title:

Water Test

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWC INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period:

Month: June

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	151,890	15.00	39.60	31.26		7.55				
2	160,512	16.00	42.24	31.55		7.59				
3	111,207	11.00	29.04	31.31		7.59				
4	133,885	13.00	34.32	30.74		7.59				
5	135,490	13.00	34.32	30.37		7.59				
6	118,277	11.00	29.04	29.44		7.59				
7	95,354	9.00	23.76	29.88		7.59				
8	106,691	10.00	26.40	29.67		7.59				
9	144,441	14.00	36.96	30.68		7.59				
10	105,673	10.00	26.40	29.96		7.59				
11	101,649	10.00	26.40	31.14		7.58				
12	117,546	22.00	58.08	59.25		7.58				
13	97,611	9.00	23.76	29.19		7.59				
14	92,722	9.00	23.76	30.73		7.58				
15	118,187	11.00	29.04	29.46		7.58				
16	140,170	14.00	36.96	31.62		7.59				
17	123,240	12.00	31.68	30.82		7.59				
18	98,520	9.00	23.76	28.92		7.59				
19	150,892	15.00	39.60	31.47		7.58				
20	122,628	12.00	31.68	30.98		7.58				
21	120,518	12.00	31.68	31.52		7.58				
22	146,926	14.00	36.96	30.16		7.59				
23	181,648	18.00	47.52	31.37		7.58				
24	191,037	19.00	50.16	31.48		7.58				
25	143,953	16.00	42.24	35.18		7.58				
26	132,770	13.00	34.32	30.99		7.57				
27	131,542	13.00	34.32	31.28		7.57				
28	130,796	13.00	34.32	31.46		7.57				
29	165,672	16.00	42.24	30.57		7.56				
30	178,445	17.00	44.88	30.16		7.56				
31										
Total	3,949,892	396.00	1045.44							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals.
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day).
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508-376-8404

Date:

7/8/13

Title:

Water

Fax:

508-376-2442

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

COPY C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	231,248	0.00	0.00	0.00	0.20	7.30				
2	232,940	0.00	0.00	0.00	0.39	7.39				
3	199,756	0.00	0.00	0.00	0.39	7.39				
4	239,421	0.00	0.00	0.00	0.38	7.39				
5	232,148	0.00	0.00	0.00	0.41	7.39				
6	233,098	0.00	0.00	0.00	0.41	7.39				
7	238,462	0.00	0.00	0.00	0.41	7.39				
8	265,831	0.00	0.00	0.00	0.39	7.39				
9	255,048	0.00	0.00	0.00	0.39	7.39				
10	281,168	0.00	0.00	0.00	0.41	7.39				
11	247,214	0.00	0.00	0.00	0.38	7.39				
12	34,212	0.00	0.00	0.00	0.36	7.39				
13	0	0.00	0.00	0.00	0.29	7.41				
14	0	0.00	0.00	0.00	0.07	7.32				
15	0	0.00	0.00	0.00	0.05	7.32				
16	0	0.00	0.00	0.00	0.05	7.32				
17	0	0.00	0.00	0.00	0.05	7.32				
18	230,981	0.00	0.00	0.00	0.04	7.32				
19	261,167	0.00	0.00	0.00	0.08	7.32				
20	260,436	0.00	0.00	0.00	0.22	7.32				
21	314,731	0.00	0.00	0.00	0.23	7.32				
22	250,777	0.00	0.00	0.00	0.23	7.32				
23	194,293	0.00	0.00	0.00	0.22	7.32				
24	203,334	0.00	0.00	0.00	0.19	7.32				
25	187,682	0.00	0.00	0.00	0.20	7.32				
26	159,620	0.00	0.00	0.00	0.19	6.91				
27	210,517	0.00	0.00	0.00	0.19	7.23				
28	222,762	0.00	0.00	0.00	0.20	7.30				
29	225,241	0.00	0.00	0.00	0.20	7.30				
30	239,934	0.00	0.00	0.00	0.20	7.30				
31	226,157	0.00	0.00	0.00	0.20	7.30				
Total	5,878,177	0.00	0.00	0.00						

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

I chemicals added to drinking water must be approved by NWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Well3

Reporting Period: Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.25	7.18				
2	0	0.00	0.00	0.00	0.21	7.00				
3	174,071	17.00	44.88	30.91	0.16	7.00				
4	202,160	20.00	52.80	31.32	0.18	7.00				
5	189,778	18.00	47.52	30.02	0.22	7.00				
6	192,693	19.00	50.16	31.21	0.20	7.00				
7	169,766	16.00	42.24	29.83	0.23	7.00				
8	222,190	22.00	58.08	31.34	0.32	7.00				
9	214,020	21.00	55.44	31.06	0.32	7.00				
10	238,742	23.00	60.72	30.50	0.32	7.00				
11	84,325	8.00	21.12	30.03	0.00	7.00				
12	316,832	21.00	55.44	20.98	0.93	7.00				
13	215,174	21.00	55.44	30.89	0.83	7.00				
14	300,309	30.00	79.20	31.62	0.67	7.00				
15	300,249	30.00	79.20	31.63	0.27	7.00				
16	320,907	32.00	84.48	31.57	0.25	7.00				
17	329,800	32.00	84.48	30.71	0.48	7.00				
18	267,527	26.00	68.64	30.76	0.36	7.00				
19	211,863	21.00	55.44	31.38	0.20	7.00				
20	229,097	22.00	58.08	30.40	0.20	7.00				
21	262,156	26.00	68.64	31.39	0.19	7.00				
22	210,804	21.00	55.44	31.53	0.23	7.00				
23	160,362	16.00	42.24	31.58	0.13	7.00				
24	205,703	20.00	52.80	30.78	0.49	7.00				
25	141,561	14.00	36.96	31.31	0.47	7.00				
26	149,828	14.00	36.96	29.58	0.83	7.10				
27	173,846	17.00	44.88	30.95	0.92	7.45				
28	191,453	19.00	50.16	31.41	0.38	7.27				
29	186,136	18.00	47.52	30.61	0.35	7.22				
30	198,153	19.00	50.16	30.35	0.35	7.20				
31	188,525	18.00	47.52	30.22	0.38	7.18				
Total	6,248,030	601.00	1586.64							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

chemicals added to drinking water must be approved by /WA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period:

Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²:

10.56

Manufacturer: UNIVAR

Product Name:

CAUSTIC SODA

Reason for Adding Chemical:

PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	151,100	15.00	39.60	31.42		7.60				
2	154,058	15.00	39.60	30.82		7.54				
3	154,010	15.00	39.60	30.83		7.57				
4	156,326	15.00	39.60	30.37		7.58				
5	145,920	14.00	36.96	30.37		7.58				
6	148,544	14.00	36.96	29.83		7.58				
7	137,075	13.00	34.32	30.02		7.57				
8	167,824	16.00	42.24	30.18		7.55				
9	163,830	16.00	42.24	30.91		7.50				
10	181,637	18.00	47.52	31.37		7.50				
11	160,454	16.00	42.24	31.57		7.50				
12	238,735	23.00	60.72	30.50		7.50				
13	185,508	18.00	47.52	30.71		7.58				
14	224,047	22.00	58.08	31.08		7.52				
15	232,802	23.00	60.72	31.27		7.53				
16	252,613	25.00	66.00	31.33		7.50				
17	252,732	25.00	66.00	31.31		7.50				
18	207,887	20.00	52.80	30.45		7.50				
19	172,099	17.00	44.88	31.27		7.50				
20	177,495	17.00	44.88	30.32		7.50				
21	203,331	20.00	52.80	31.14		7.50				
22	163,148	16.00	42.24	31.04		7.50				
23	127,017	12.00	31.68	29.91		7.50				
24	132,034	13.00	34.32	31.17		7.50				
25	117,091	11.00	29.04	29.74		7.50				
26	104,874	10.00	26.40	30.18		7.51				
27	135,790	13.00	34.32	30.30		7.58				
28	144,436	14.00	36.96	30.68		7.60				
29	145,563	14.00	36.96	30.44		7.60				
30	158,527	15.00	39.60	29.95		7.60				
31	148,667	14.00	36.96	29.81		7.60				
Total	5,245,174	509.00	1343.76							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

I chemicals added to drinking water must be approved by NWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508 376 5724

Fax:

508 376 2442

Date:

7/31/13

Title:

Water Team



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 5 & 6

Reporting Period: Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	278,921	24.00	63.36	27.24	0.11	7.49					
2	281,339	25.00	66.00	28.13	0.08	7.59					
3	233,436	20.00	52.80	27.12	0.08	7.58					
4	277,373	24.00	63.36	27.39	0.08	7.55					
5	269,318	23.00	60.72	27.03	0.08	7.58					
6	271,744	24.00	63.36	27.96	0.08	7.57					
7	275,626	24.00	63.36	27.56	0.08	7.58					
8	56,604	5.00	13.20	27.96	0.09	7.57					
9	0	0.00	0.00	0.00	0.09	7.58					
10	0	0.00	0.00	0.00	0.09	7.52					
11	218,025	20.00	52.80	29.04	0.14	6.99					
12	19,502	2.00	5.28	32.46	0.15	7.49					
13	217,698	20.00	52.80	29.08	0.08	7.49					
14	272,389	24.00	63.36	27.89	0.07	7.53					
15	280,846	24.00	63.36	27.05	0.15	7.49					
16	301,952	25.00	66.00	26.21	0.16	7.49					
17	307,722	25.00	66.00	25.72	0.18	7.49					
18	248,500	22.00	58.08	28.02	0.19	7.50					
19	199,907	17.00	44.88	26.92	0.21	7.50					
20	213,258	19.00	50.16	28.20	0.17	7.50					
21	242,650	22.00	58.08	28.70	0.12	7.50					
22	192,927	18.00	47.52	29.53	0.13	7.50					
23	147,840	14.00	36.96	29.98	0.10	7.49					
24	155,927	15.00	39.60	30.45	0.11	7.50					
25	150,659	15.00	39.60	31.52	0.11	7.49					
26	122,800	12.00	31.68	30.93	0.09	7.26					
27	159,764	15.00	39.60	29.72	0.10	7.48					
28	173,875	17.00	44.88	30.95	0.12	7.48					
29	173,128	17.00	44.88	31.08	0.11	7.48					
30	183,204	18.00	47.52	31.10	0.11	7.49					
31	173,556	17.00	44.88	31.01	0.11	7.49					
total	6,100,491	547.00	1444.08								

chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of each chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

COPY C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	231,248	0.75	1.13	0.58	0.20	7.30					
2	232,940	0.75	1.13	0.58	0.39	7.39					
3	199,756	0.50	0.75	0.45	0.39	7.39					
4	239,421	0.75	1.13	0.56	0.38	7.39					
5	232,148	0.75	1.13	0.58	0.41	7.39					
6	233,098	0.75	1.13	0.58	0.41	7.39					
7	238,462	0.75	1.13	0.57	0.41	7.39					
8	265,831	0.75	1.13	0.51	0.39	7.39					
9	255,048	0.75	1.13	0.53	0.39	7.39					
10	281,168	0.75	1.13	0.48	0.41	7.39					
11	247,214	0.75	1.13	0.55	0.38	7.39					
12	34,212	0.00	0.00	0.00	0.36	7.39					
13	0	0.00	0.00	0.00	0.29	7.41					
14	0	0.00	0.00	0.00	0.07	7.32					
15	0	0.00	0.00	0.00	0.05	7.32					
16	0	0.00	0.00	0.00	0.05	7.32					
17	0	0.00	0.00	0.00	0.05	7.32					
18	230,981	0.75	1.13	0.59	0.04	7.32					
19	261,167	0.75	1.13	0.52	0.08	7.32					
20	260,436	0.75	1.13	0.52	0.22	7.32					
21	314,731	1.00	1.50	0.57	0.23	7.32					
22	250,777	0.75	1.13	0.54	0.23	7.32					
23	194,293	0.50	0.75	0.46	0.22	7.32					
24	203,334	0.50	0.75	0.44	0.19	7.32					
25	187,682	0.50	0.75	0.48	0.20	7.32					
26	159,620	0.50	0.75	0.56	0.19	6.91					
27	210,517	0.50	0.75	0.43	0.19	7.23					
28	222,762	0.75	1.13	0.61	0.20	7.30					
29	225,241	0.75	1.13	0.60	0.20	7.30					
30	239,934	0.75	1.13	0.56	0.20	7.30					
31	226,157	0.75	1.13	0.60	0.20	7.30					
Total	5,878,177	17.50	26.30								

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #

Date:

Title:

Email:

Fax:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.25	7.18				
2	0	0.00	0.00	0.00	0.21	7.00				
3	174,071	0.50	0.75	0.52	0.16	7.00				
4	202,160	0.50	0.75	0.45	0.18	7.00				
5	189,778	0.50	0.75	0.47	0.22	7.00				
6	192,693	0.50	0.75	0.47	0.20	7.00				
7	169,766	0.50	0.75	0.53	0.23	7.00				
8	222,190	0.50	0.75	0.41	0.32	7.00				
9	214,020	0.50	0.75	0.42	0.31	7.00				
10	238,742	0.50	0.75	0.38	0.32	7.00				
11	84,325	0.10	0.15	0.21	0.00	7.00				
12	316,832	1.00	1.50	0.57	0.93	7.00				
13	215,174	0.50	0.75	0.42	0.83	7.00				
14	300,309	1.00	1.50	0.60	0.67	7.00				
15	300,249	1.00	1.50	0.60	0.27	7.00				
16	320,907	1.00	1.50	0.56	0.25	7.00				
17	329,800	1.00	1.50	0.55	0.48	7.00				
18	267,527	0.75	1.13	0.51	0.36	7.00				
19	211,863	0.75	1.13	0.64	0.20	7.00				
20	229,097	0.75	1.13	0.59	0.20	7.00				
21	262,156	0.75	1.13	0.52	0.19	7.00				
22	210,804	0.75	1.13	0.64	0.23	7.00				
23	160,362	0.50	0.75	0.56	0.13	7.00				
24	205,703	0.75	1.13	0.66	0.49	7.00				
25	141,561	0.50	0.75	0.64	0.47	7.00				
26	149,828	0.50	0.75	0.60	0.83	7.10				
27	173,846	0.50	0.75	0.52	0.92	7.45				
28	191,453	0.50	0.75	0.47	0.38	7.27				
29	186,136	0.50	0.75	0.48	0.35	7.22				
30	198,153	0.50	0.75	0.45	0.35	7.20				
31	188,525	0.50	0.75	0.48	0.38	7.18				
Total:	6,248,030	18.10	27.20							

I certify that chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

well4

Reporting Period:

Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%):

15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name:

BORCHLOR 15%

Reason for Adding Chemical:

Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	151,100	0.00	0.00	0.00		7.60					
2	154,058	0.00	0.00	0.00		7.54					
3	154,010	0.00	0.00	0.00		7.75					
4	156,326	0.00	0.00	0.00		7.58					
5	145,920	0.00	0.00	0.00		7.58					
6	148,544	0.00	0.00	0.00		7.58					
7	137,075	0.00	0.00	0.00		7.57					
8	167,824	0.00	0.00	0.00		7.55					
9	163,830	0.00	0.00	0.00		7.50					
10	181,637	0.00	0.00	0.00		7.50					
11	160,454	0.00	0.00	0.00		7.50					
12	238,735	1.00	1.50	0.75		7.50					
13	185,508	0.75	1.13	0.73		7.58					
14	224,047	1.00	1.50	0.80		7.52					
15	232,802	1.00	1.50	0.77		7.53					
16	252,613	1.25	1.88	0.89		7.50					
17	252,732	1.25	1.88	0.89		7.50					
18	207,887	0.00	0.00	0.00		7.50					
19	172,099	0.00	0.00	0.00		7.50					
20	177,495	0.00	0.00	0.00		7.50					
21	203,331	0.00	0.00	0.00		7.50					
22	163,148	0.00	0.00	0.00		7.50					
23	127,017	0.00	0.00	0.00		7.50					
24	132,034	0.00	0.00	0.00		7.50					
25	117,091	0.00	0.00	0.00		7.50					
26	104,874	0.00	0.00	0.00		7.51					
27	135,790	0.00	0.00	0.00		7.58					
28	144,436	0.00	0.00	0.00		7.60					
29	145,563	0.00	0.00	0.00		7.60					
30	158,527	0.00	0.00	0.00		7.60					
31	148,667	0.00	0.00	0.00		7.60					
Total	5,245,174	6.25	9.39								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date:

Title:

Chemicals added to drinking water must be approved by
VWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out
this form and the information contained herein is true, accurate and
complete to the best extent of my knowledge.

Phone #:

508 376 5424

Fax:

508 376 2442

Email:

7/31/13
Water Fev



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: July

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: univar

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	278,921	1.00	1.50	0.65	0.11	7.49				
2	281,339	1.00	1.50	0.64	0.08	7.59				
3	233,436	0.75	1.13	0.58	0.08	7.58				
4	277,373	1.00	1.50	0.65	0.08	7.55				
5	269,318	1.00	1.50	0.67	0.08	7.58				
6	271,744	1.00	1.50	0.66	0.08	7.57				
7	275,626	1.00	1.50	0.65	0.08	7.58				
8	56,604	0.00	0.00	0.00	0.09	7.57				
9	0	0.00	0.00	0.00	0.09	7.58				
10	0	0.00	0.00	0.00	0.09	7.52				
11	218,025	0.75	1.13	0.62	0.14	6.99				
12	19,502	0.00	0.00	0.00	0.15	7.49				
13	217,698	0.75	1.13	0.62	0.08	7.49				
14	272,389	0.75	1.13	0.50	0.07	7.53				
15	280,846	0.75	1.13	0.48	0.15	7.49				
16	301,952	1.00	1.50	0.60	0.16	7.49				
17	307,722	1.00	1.50	0.59	0.18	7.49				
18	248,500	0.75	1.13	0.54	0.19	7.50				
19	199,907	0.50	0.75	0.45	0.21	7.50				
20	213,258	0.50	0.75	0.42	0.17	7.50				
21	242,650	0.75	1.13	0.56	0.12	7.50				
22	192,927	0.50	0.75	0.47	0.13	7.50				
23	147,840	0.50	0.75	0.61	0.10	7.49				
24	155,927	0.50	0.75	0.58	0.11	7.50				
25	150,659	0.50	0.75	0.60	0.11	7.49				
26	122,800	0.50	0.75	0.73	0.09	7.26				
27	159,764	0.50	0.75	0.56	0.10	7.48				
28	173,875	0.50	0.75	0.52	0.12	7.48				
29	173,128	0.50	0.75	0.52	0.11	7.48				
30	183,204	0.50	0.75	0.49	0.11	7.49				
31	173,556	0.50	0.75	0.52	0.11	7.49				
Total:	6,100,491	19.25	28.93							

I certify that chemicals added to drinking water must be approved by NWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed-system enter (lb/day)

4. Enter the appropriate parameter that is monitored for downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

COPY

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 1 & 2

Reporting Period: Month: August

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴				Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)		
1	197,223	0.00	0.00	0.00	0.26	6.69				
2	222,171	0.00	0.00	0.00	0.20	7.30				
3	224,132	0.00	0.00	0.00	0.20	7.19				
4	252,342	0.00	0.00	0.00	0.20	7.13				
5	245,486	0.00	0.00	0.00	0.21	7.13				
6	225,881	0.00	0.00	0.00	0.19	7.13				
7	220,612	0.00	0.00	0.00	0.20	7.13				
8	194,993	0.00	0.00	0.00	0.19	7.13				
9	161,627	0.00	0.00	0.00	0.18	7.13				
10	183,668	0.00	0.00	0.00	0.22	7.13				
11	220,637	0.00	0.00	0.00	0.25	7.00				
12	219,831	0.00	0.00	0.00	0.26	7.00				
13	202,317	0.00	0.00	0.00	0.24	6.63				
14	227,660	0.00	0.00	0.00	0.22	6.63				
15	225,886	0.00	0.00	0.00	0.23	6.63				
16	198,143	0.00	0.00	0.00	0.24	6.63				
17	229,970	0.00	0.00	0.00	0.23	6.63				
18	221,977	0.00	0.00	0.00	0.23	6.63				
19	209,861	0.00	0.00	0.00	0.22	6.63				
20	213,269	0.00	0.00	0.00	0.24	6.51				
21	335,354	0.00	0.00	0.00	0.24	6.51				
22	318,128	0.00	0.00	0.00	0.26	6.51				
23	293,191	0.00	0.00	0.00	0.26	6.51				
24	316,779	0.00	0.00	0.00	0.26	6.51				
25	348,144	0.00	0.00	0.00	0.26	6.51				
26	297,257	0.00	0.00	0.00	0.26	6.51				
27	304,512	0.00	0.00	0.00	0.25	6.51				
28	315,133	0.00	0.00	0.00	0.24	6.51				
29	267,992	0.00	0.00	0.00	0.07	6.51				
30	272,717	0.00	0.00	0.00	0.12	6.51				
31	289,749	0.00	0.00	0.00	0.25	6.51				
Total	7,656,643	0.00	0.00							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Fax:

Date:

Title:

Email:

9/2/13 water test



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Well3

Reporting Period: Month: August

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	163,657	16.00	42.24	30.95	0.33	6.71				
2	191,205	19.00	50.16	31.46	0.40	7.26				
3	188,056	18.00	47.52	30.30	0.47	7.02				
4	215,305	21.00	55.44	30.87	0.48	7.02				
5	203,731	20.00	52.80	31.07	0.50	7.02				
6	186,025	18.00	47.52	30.63	0.59	7.01				
7	183,203	18.00	47.52	31.10	0.59	7.01				
8	162,528	16.00	42.24	31.16	0.57	7.01				
9	137,767	13.00	34.32	29.87	0.39	7.00				
10	160,117	16.00	42.24	31.63	0.69	7.00				
11	184,268	18.00	47.52	30.92	0.44	7.00				
12	182,826	18.00	47.52	31.17	0.69	7.00				
13	174,515	17.00	44.88	30.84	0.68	7.00				
14	196,984	18.00	47.52	28.93	0.45	7.00				
15	194,061	19.00	50.16	30.99	0.40	7.00				
16	172,698	17.00	44.88	31.16	0.18	7.00				
17	194,511	19.00	50.16	30.92	0.21	7.00				
18	180,360	18.00	47.52	31.59	0.11	7.00				
19	175,532	17.00	44.88	30.66	0.11	7.00				
20	179,810	17.00	44.88	29.93	0.10	7.00				
21	284,309	28.00	73.92	31.17	0.36	7.00				
22	272,973	27.00	71.28	31.31	0.44	7.00				
23	249,472	24.00	63.36	30.45	0.38	7.00				
24	253,563	25.00	66.00	31.21	0.38	7.00				
25	295,328	29.00	76.56	31.08	0.54	7.00				
26	252,660	25.00	66.00	31.32	0.51	7.00				
27	257,685	25.00	66.00	30.71	0.36	7.00				
28	266,440	26.00	68.64	30.89	0.38	7.00				
29	225,725	22.00	58.08	30.85	0.36	7.00				
30	227,362	22.00	58.08	30.63	0.43	7.00				
31	239,432	23.00	60.72	30.41	0.43	7.01				
Total	6,452,108	629.00	1660.56							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition

I chemicals added to drinking water must be approved by MWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: *Rue*

Date: 8/2/13

Title: water fed

Phone #: _____

Fax: _____

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period:

Month: August

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

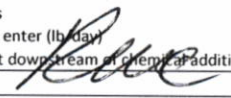
Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	131,435	13.00	34.32	31.31		7.60				
2	141,390	14.00	36.96	31.34		7.60				
3	147,195	14.00	36.96	30.11		7.60				
4	165,405	16.00	42.24	30.62		7.60				
5	159,767	15.00	39.60	29.72		7.60				
6	145,600	14.00	36.96	30.44		7.60				
7	145,305	14.00	36.96	30.50		7.60				
8	126,732	12.00	31.68	29.97		7.60				
9	109,441	10.00	26.40	28.92		7.60				
10	118,982	11.00	29.04	29.27		7.60				
11	142,402	14.00	36.96	31.12		7.60				
12	143,397	14.00	36.96	30.90		7.60				
13	134,837	13.00	34.32	30.52		7.60				
14	146,908	14.00	36.96	30.17		7.60				
15	145,942	14.00	36.96	30.37		7.60				
16	145,942	14.00	36.96	30.37		7.60				
17	147,518	14.00	36.96	30.04		7.60				
18	144,918	14.00	36.96	30.58		7.60				
19	135,972	13.00	34.32	30.26		7.60				
20	140,485	14.00	36.96	31.55		7.60				
21	211,517	21.00	55.44	31.43		7.60				
22	198,576	19.00	50.16	30.29		7.60				
23	188,169	18.00	47.52	30.28		7.60				
24	195,376	19.00	50.16	30.78		7.60				
25	229,185	22.00	58.08	30.39		7.60				
26	190,390	19.00	50.16	31.59		7.60				
27	190,900	19.00	50.16	31.51		7.60				
28	202,037	20.00	52.80	31.34		7.60				
29	171,466	17.00	44.88	31.38		7.60				
30	174,896	17.00	44.88	30.77		7.60				
31	183,929	18.00	47.52	30.98		7.60				
Total	4,956,014	480.00	1267.20							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: 

Phone #:

Fax:

Date: 8/2/13

Title: water tech

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: aug

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	153,248	15.00	39.60	30.98	0.11	7.62				
2	170,584	17.00	44.88	31.55	0.16	7.54				
3	172,004	17.00	44.88	31.29	0.11	7.48				
4	196,017	19.00	50.16	30.68	0.11	7.49				
5	187,574	18.00	47.52	30.38	0.12	7.48				
6	174,719	17.00	44.88	30.80	0.11	7.49				
7	169,108	16.00	42.24	29.95	0.12	7.48				
8	148,293	14.00	36.96	29.88	0.12	7.48				
9	124,286	12.00	31.68	30.56	0.11	7.49				
10	139,038	13.00	34.32	29.60	0.11	7.49				
11	169,164	16.00	42.24	29.94	0.13	7.48				
12	168,815	16.00	42.24	30.00	0.11	7.48				
13	160,602	16.00	42.24	31.54	0.12	7.48				
14	176,006	17.00	44.88	30.57	0.12	7.48				
15	174,086	17.00	44.88	30.91	0.12	7.48				
16	154,393	15.00	39.60	30.75	0.13	7.47				
17	137,994	13.00	34.32	29.82	0.12	7.48				
18	255,824	25.00	66.00	30.93	0.10	7.49				
19	247,672	24.00	63.36	30.67	0.07	7.30				
20	250,119	25.00	66.00	31.64	0.07	7.31				
21	19,716	1.00	2.64	16.06	0.08	7.31				
22	0	0.00	0.00	0.00	0.06	7.38				
23	0	0.00	0.00	0.00	0.06	7.37				
24	0	0.00	0.00	0.00	0.08	7.46				
25	0	0.00	0.00	0.00	0.06	7.51				
26	0	0.00	0.00	0.00	0.08	7.55				
27	0	0.00	0.00	0.00	0.11	7.58				
28	0	0.00	0.00	0.00	0.14	7.61				
29	0	0.00	0.00	0.00	0.12	7.62				
30	0	0.00	0.00	0.00	0.11	7.61				
31	0	0.00	0.00	0.00	0.11	7.61				
Total	3,549,263	343.00	905.52							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition

chemicals added to drinking water must be approved by VWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Fax:

Date:

Title:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: August

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	197,223	0.50	0.75	0.46	0.26	6.69				
2	222,171	0.75	1.13	0.61	0.20	7.30				
3	224,132	0.75	1.13	0.60	0.20	7.19				
4	252,342	0.75	1.13	0.54	0.20	7.13				
5	245,486	0.75	1.13	0.55	0.21	7.13				
6	225,881	0.75	1.13	0.60	0.19	7.13				
7	220,612	0.75	1.13	0.61	0.20	7.13				
8	194,993	0.50	0.75	0.46	0.19	7.13				
9	161,627	0.50	0.75	0.56	0.18	7.13				
10	183,668	0.50	0.75	0.49	0.22	7.13				
11	220,637	0.50	0.75	0.41	0.25	7.00				
12	219,831	0.50	0.75	0.41	0.26	7.00				
13	202,317	0.50	0.75	0.45	0.24	6.63				
14	227,660	0.75	1.13	0.59	0.22	6.63				
15	225,886	0.75	1.13	0.60	0.23	6.63				
16	198,143	0.50	0.75	0.45	0.24	6.63				
17	229,970	0.50	0.75	0.39	0.23	6.63				
18	221,977	0.50	0.75	0.41	0.23	6.63				
19	209,861	0.50	0.75	0.43	0.22	6.63				
20	213,269	0.50	0.75	0.42	0.24	6.51				
21	335,354	1.25	1.88	0.67	0.24	6.51				
22	318,128	1.00	1.50	0.57	0.26	6.51				
23	293,191	0.75	1.13	0.46	0.26	6.51				
24	316,779	1.00	1.50	0.57	0.26	6.51				
25	348,144	1.25	1.88	0.65	0.26	6.51				
26	297,257	0.75	1.13	0.45	0.26	6.51				
27	304,512	1.00	1.50	0.59	0.25	6.51				
28	315,133	1.00	1.50	0.57	0.24	6.51				
29	267,992	0.75	1.13	0.50	0.07	6.51				
30	272,717	1.00	1.50	0.66	0.12	6.51				
31	289,749	1.00	1.50	0.62	0.25	6.51				
Total	7,656,643	22.75	34.19							

chemicals added to drinking water must be approved by VWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition

PWS Authorized Signature:

Phone #:

Fax:

Email:

Date: 9/2/13

Title: water tower



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: August

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones Chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	163,657	0.50	0.75	0.55	0.33	6.71				
2	191,205	0.50	0.75	0.47	0.40	7.26				
3	188,056	0.50	0.75	0.48	0.47	7.02				
4	215,305	0.75	1.13	0.63	0.48	7.02				
5	203,731	0.75	1.13	0.66	0.50	7.02				
6	186,025	0.50	0.75	0.48	0.59	7.01				
7	183,203	0.50	0.75	0.49	0.59	7.01				
8	162,528	0.50	0.50	0.37	0.57	7.01				
9	137,767	0.25	0.38	0.33	0.39	7.00				
10	160,117	0.25	0.38	0.28	0.69	7.00				
11	184,268	0.50	0.75	0.49	0.44	7.00				
12	182,826	0.50	0.75	0.49	0.69	7.00				
13	174,515	0.50	0.75	0.52	0.68	7.00				
14	196,984	0.50	0.75	0.46	0.45	7.00				
15	194,061	0.50	0.75	0.46	0.40	7.00				
16	172,698	0.50	0.75	0.52	0.18	7.00				
17	194,511	0.50	0.75	0.46	0.21	7.00				
18	180,360	0.50	0.75	0.50	0.11	7.00				
19	175,532	0.50	0.75	0.51	0.11	7.00				
20	179,810	0.50	0.75	0.50	0.10	7.00				
21	284,309	1.00	1.50	0.63	0.36	7.00				
22	272,973	1.00	1.50	0.66	0.44	7.00				
23	249,472	0.75	1.13	0.54	0.38	7.00				
24	253,563	0.75	1.13	0.53	0.38	7.00				
25	295,328	1.00	1.50	0.61	0.54	7.00				
26	252,660	0.75	1.13	0.53	0.51	7.00				
27	257,685	0.75	1.13	0.52	0.36	7.00				
28	266,440	0.75	1.13	0.51	0.38	7.00				
29	225,725	0.50	0.75	0.40	0.36	7.00				
30	227,362	0.50	0.75	0.40	0.43	7.00				
31	239,432	0.50	0.75	0.38	0.43	7.01				
Total	6,452,108	18.25	27.18							

Notes: 1. A separate report is required for each chemical added for each facility.

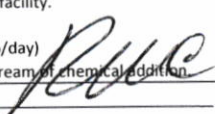
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition

I chemicals added to drinking water must be approved by VWA/NSF for use in potable water.

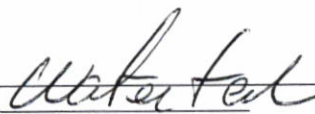
I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: 

Phone #: _____

Fax: _____

Date: 9/2/13

Title: 

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2167000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: well 5&6

Reporting Period: Month: aug

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other		Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)				
1	153,248	0.50	0.75	0.59	0.11	7.62						
2	170,584	0.50	0.75	0.53	0.16	7.54						
3	172,004	0.50	0.75	0.52	0.11	7.48						
4	196,017	0.50	0.75	0.46	0.11	7.49						
5	187,574	0.50	0.75	0.48	0.12	7.48						
6	174,719	0.50	0.75	0.52	0.11	7.49						
7	169,108	0.50	0.75	0.53	0.12	7.48						
8	148,293	0.25	0.38	0.30	0.12	7.48						
9	124,286	0.25	0.38	0.36	0.11	7.49						
10	139,038	0.25	0.38	0.32	0.11	7.49						
11	169,164	0.50	0.75	0.53	0.13	7.48						
12	168,815	0.50	0.75	0.53	0.11	7.48						
13	160,602	0.50	0.75	0.56	0.12	7.48						
14	176,006	0.50	0.75	0.51	0.12	7.48						
15	174,086	0.50	0.75	0.52	0.12	7.48						
16	154,393	0.50	0.75	0.58	0.13	7.47						
17	137,994	0.50	0.75	0.65	0.12	7.48						
18	255,824	0.75	1.13	0.53	0.10	7.49						
19	247,672	0.75	1.13	0.55	0.07	7.30						
20	250,119	0.75	1.13	0.54	0.07	7.31						
21	19,716	0.00	0.00	0.00	0.08	7.31						
22	0	0.00	0.00	0.00	0.06	7.38						
23	0	0.00	0.00	0.00	0.06	7.37						
24	0	0.00	0.00	0.00	0.08	7.46						
25	0	0.00	0.00	0.00	0.06	7.51						
26	0	0.00	0.00	0.00	0.08	7.55						
27	0	0.00	0.00	0.00	0.11	7.58						
28	0	0.00	0.00	0.00	0.14	7.61						
29	0	0.00	0.00	0.00	0.12	7.62						
30	0	0.00	0.00	0.00	0.11	7.61						
31	0	0.00	0.00	0.00	0.11	7.61						
Total	3,549,263	18.50	15.03									

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

I chemicals added to drinking water must be approved by
VWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out
this form and the information contained herein is true, accurate and
complete to the best extent of my knowledge.

PWS Authorized Signature: _____

Phone #: _____

Fax: _____

Date: 8/2/13

Title: Water Tech

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

COPY C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: September

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	238,138	0.75	1.13	0.57	0.36	7.55					
2	264,610	0.75	1.13	0.51	0.25	7.40					
3	239,730	0.75	1.13	0.56	0.25	7.40					
4	251,242	0.75	1.13	0.54	0.24	7.40					
5	255,436	0.75	1.13	0.53	0.24	7.40					
6	216,573	0.75	1.13	0.62	0.23	7.40					
7	277,887	0.75	1.13	0.49	0.11	7.40					
8	302,057	1.25	1.88	0.75	0.31	7.40					
9	258,267	0.75	1.13	0.52	0.28	7.40					
10	259,709	0.75	1.13	0.52	0.26	7.40					
11	271,240	0.75	1.13	0.50	0.25	7.40					
12	251,544	0.50	0.75	0.36	0.26	7.40					
13	222,766	0.50	0.75	0.40	0.24	7.40					
14	253,678	0.50	0.75	0.36	0.23	7.40					
15	300,374	0.75	1.13	0.45	0.16	7.40					
16	249,958	0.50	0.75	0.36	0.23	7.40					
17	260,125	0.50	0.75	0.35	0.21	7.40					
18	257,242	0.50	0.75	0.35	0.22	7.40					
19	293,454	0.50	0.75	0.31	0.23	7.87					
20	245,220	0.75	1.13	0.55	0.22	7.75					
21	260,975	0.75	1.13	0.52	0.22	7.75					
22	300,782	0.75	1.13	0.45	0.20	7.75					
23	265,504	0.50	0.75	0.34	0.16	7.75					
24	266,218	0.50	0.75	0.34	0.20	7.24					
25	285,827	0.50	0.75	0.32	0.21	7.24					
26	288,044	0.75	1.13	0.47	0.42	7.67					
27	247,981	0.50	0.75	0.36	0.35	7.81					
28	286,727	0.75	1.13	0.47	0.32	7.31					
29	316,457	1.00	1.50	0.57	0.33	7.24					
30	274,044	0.75	1.13	0.49	0.31	7.24					
31											
Total	7,961,808	20.50	30.81								

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just down stream of chemical addition.

PWS Authorized Signature:

Phone #:

Date: 10/1/13

Title: water tech

Fax: 5083762412

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: September

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones Chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	203,458	0.50	0.75	0.44	0.16	7.00					
2	231,828	0.75	1.13	0.58	0.19	7.01					
3	198,351	0.75	1.13	0.68	0.10	7.01					
4	253,085	0.75	1.13	0.53	0.10	7.00					
5	217,553	0.75	1.13	0.62	0.12	7.00					
6	186,083	0.75	1.13	0.73	0.13	7.00					
7	229,611	0.75	1.13	0.59	0.10	7.00					
8	255,442	0.75	1.13	0.53	0.18	7.00					
9	216,975	0.75	1.13	0.62	0.19	7.00					
10	224,176	0.75	1.13	0.60	0.14	7.01					
11	227,565	0.75	1.13	0.59	0.10	7.01					
12	214,329	0.75	1.13	0.63	0.09	7.01					
13	186,884	0.50	0.75	0.48	0.12	7.01					
14	208,729	0.50	0.75	0.43	0.05	7.00					
15	252,759	0.75	1.13	0.53	0.06	7.00					
16	208,644	0.50	0.75	0.43	0.10	7.00					
17	217,656	0.50	0.75	0.41	0.10	7.00					
18	214,980	0.50	0.75	0.42	0.13	7.00					
19	246,516	0.75	1.13	0.55	0.10	7.00					
20	205,442	0.50	0.75	0.44	0.05	7.00					
21	222,197	0.50	0.75	0.41	0.07	7.00					
22	252,741	0.50	0.75	0.36	0.09	7.00					
23	223,369	0.50	0.75	0.40	0.07	7.00					
24	221,229	0.50	0.75	0.41	0.09	7.00					
25	238,093	0.50	0.75	0.38	0.07	7.00					
26	246,927	0.75	1.13	0.55	0.09	7.00					
27	204,718	0.50	0.75	0.44	0.12	7.01					
28	237,562	0.50	0.75	0.38	0.14	7.01					
29	264,933	0.50	0.75	0.34	0.13	7.00					
30	228,746	0.50	0.75	0.39	0.09	7.00					
31											
Total	6,740,581	18.50	27.81								

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000 PWS Name: Public Works Department PWS Town: Millis
Treatment Facility Name: Wells 5 & 6 Reporting Period: Month: September Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite Purchased Strength (%): 15% Purchased Density²: 10.02
Manufacturer: Jones Chemical Product Name: BORCHLOR 15%
Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	0	0.00	0.00	0.00	0.11	7.58					river level low well off
2	0	0.00	0.00	0.00	0.12	7.62					
3	0	0.00	0.00	0.00	0.10	7.57					
4	0	0.00	0.00	0.00	0.10	7.57					
5	0	0.00	0.00	0.00	0.10	7.57					
6	0	0.00	0.00	0.00	0.11	7.57					
7	0	0.00	0.00	0.00	0.11	7.51					
8	0	0.00	0.00	0.00	0.10	7.51					
9	0	0.00	0.00	0.00	0.10	7.51					
10	0	0.00	0.00	0.00	0.09	7.50					
11	0	0.00	0.00	0.00	0.10	7.45					
12	0	0.00	0.00	0.00	0.11	7.41					
13	0	0.00	0.00	0.00	0.12	7.41					
14	0	0.00	0.00	0.00	0.11	7.39					
15	0	0.00	0.00	0.00	0.12	7.41					
16	0	0.00	0.00	0.00	0.14	7.40					
17	0	0.00	0.00	0.00	0.12	7.38					
18	0	0.00	0.00	0.00	0.11	7.37					
19	0	0.00	0.00	0.00	0.10	7.40					
20	0	0.00	0.00	0.00	0.11	7.39					
21	0	0.00	0.00	0.00	0.15	7.39					
22	0	0.00	0.00	0.00	0.14	7.41					
23	0	0.00	0.00	0.00	0.10	7.38					
24	0	0.00	0.00	0.00	0.12	7.37					
25	0	0.00	0.00	0.00	0.12	7.39					
26	0	0.00	0.00	0.00	0.11	7.41					
27	0	0.00	0.00	0.00	0.12	7.39					
28	0	0.00	0.00	0.00	0.12	7.41					
29	0	0.00	0.00	0.00	0.12	7.41					
30	0	0.00	0.00	0.00	0.12	7.39					
31											
Total	0	0.00	0.00								

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

508 376 8404

Fax:

508 376 2442

Date:

10/1/13

Title:

Water for

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: September

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	238,138	0.00	0.00	0.00	0.36	7.55					
2	264,610	0.00	0.00	0.00	0.25	7.40					
3	239,730	0.00	0.00	0.00	0.25	7.40					
4	251,242	0.00	0.00	0.00	0.24	7.40					
5	255,436	0.00	0.00	0.00	0.24	7.40					
6	216,573	0.00	0.00	0.00	0.23	7.40					
7	277,887	0.00	0.00	0.00	0.11	7.40					
8	302,057	0.00	0.00	0.00	0.31	7.40					
9	258,267	0.00	0.00	0.00	0.28	7.40					
10	259,709	0.00	0.00	0.00	0.26	7.40					
11	271,240	0.00	0.00	0.00	0.25	7.40					
12	251,544	0.00	0.00	0.00	0.26	7.40					
13	222,766	0.00	0.00	0.00	0.24	7.40					
14	253,678	0.00	0.00	0.00	0.23	7.40					
15	300,374	0.00	0.00	0.00	0.16	7.40					
16	249,958	0.00	0.00	0.00	0.23	7.40					
17	260,125	0.00	0.00	0.00	0.21	7.40					
18	257,242	0.00	0.00	0.00	0.22	7.40					
19	293,454	0.00	0.00	0.00	0.23	7.87					
20	245,220	0.00	0.00	0.00	0.22	7.75					
21	260,975	0.00	0.00	0.00	0.22	7.75					
22	300,782	0.00	0.00	0.00	0.20	7.75					
23	265,504	0.00	0.00	0.00	0.16	7.75					
24	266,218	0.00	0.00	0.00	0.20	7.24					
25	285,827	0.00	0.00	0.00	0.21	7.24					
26	288,044	0.00	0.00	0.00	0.42	7.67					
27	247,981	0.00	0.00	0.00	0.35	7.81					
28	286,727	0.00	0.00	0.00	0.32	7.31					
29	316,457	0.00	0.00	0.00	0.33	7.24					
30	274,044	0.00	0.00	0.00	0.31	7.24					
31	0										
Total	7,961,808	0.00	0.00								

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date: 10/1/13

Title: Water Dept

Fax:

Email:

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Well3

Reporting Period: Month: September

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	203,458	20.00	52.80	31.12	0.16	7.00				
2	231,828	23.00	60.72	31.41	0.19	7.01				
3	198,351	19.00	50.16	30.32	0.10	7.01				
4	253,085	25.00	66.00	31.27	0.10	7.00				
5	217,553	21.00	55.44	30.56	0.12	7.00				
6	186,083	18.00	47.52	30.62	0.13	7.00				
7	229,611	22.00	58.08	30.33	0.10	7.00				
8	255,442	25.00	66.00	30.98	0.18	7.00				
9	216,975	21.00	55.44	30.64	0.19	7.00				
10	224,176	22.00	58.08	31.07	0.14	7.01				
11	227,565	22.00	58.08	30.60	0.10	7.00				
12	214,329	21.00	55.44	31.02	0.09	7.01				
13	186,884	18.00	47.52	30.49	0.12	7.01				
14	208,729	20.00	52.80	30.33	0.05	7.00				
15	252,759	25.00	66.00	31.31	0.06	7.00				
16	208,644	20.00	52.80	30.34	0.10	7.00				
17	217,656	21.00	55.44	30.54	0.10	7.00				
18	214,980	21.00	55.44	30.92	0.13	7.00				
19	246,516	24.00	63.36	30.82	0.10	7.00				
20	205,442	20.00	52.80	30.82	0.05	7.00				
21	222,197	22.00	58.08	31.34	0.07	7.00				
22	252,741	25.00	66.00	31.31	0.09	7.00				
23	223,369	22.00	58.08	31.18	0.07	7.00				
24	221,229	22.00	58.08	31.48	0.09	7.00				
25	238,093	23.00	60.72	30.58	0.07	7.00				
26	246,927	24.00	63.36	30.77	0.09	7.00				
27	204,718	20.00	52.80	30.93	0.12	7.01				
28	237,562	23.00	60.72	30.65	0.14	7.01				
29	264,933	26.00	68.64	31.07	0.13	7.00				
30	228,746	22.00	58.08	30.44	0.09	7.00				
31										
Total:		6,740,581	657.00	1734.48						

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: [Signature]

Date: 10/1/13

Title: [Signature]

Phone#: 508 376 5424

Fax: 508 376 2412

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period: Month: September

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name:

CAUSTIC SODA

Reason for Adding Chemical:

PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	152,337	15.00	39.60	31.17		7.60				
2	171,579	17.00	44.88	31.36		7.60				
3	151,483	15.00	39.60	31.34		7.60				
4	161,698	16.00	42.24	31.32		7.60				
5	162,243	16.00	42.24	31.22		7.60				
6	137,662	13.00	34.32	29.89		7.60				
7	183,849	18.00	47.52	30.99		7.30				
8	191,704	19.00	50.16	31.37		7.20				
9	166,614	16.00	42.24	30.40		7.20				
10	171,066	17.00	44.88	31.46		7.51				
11	172,930	17.00	44.88	31.12		7.60				
12	158,188	15.00	39.60	30.02		7.60				
13	139,424	13.00	34.32	29.52		7.60				
14	162,431	16.00	42.24	31.18		7.60				
15	191,448	18.00	47.52	29.76		7.60				
16	160,177	16.00	42.24	31.62		7.60				
17	167,602	16.00	42.24	30.22		7.60				
18	162,882	16.00	42.24	31.09		7.60				
19	187,353	18.00	47.52	30.41		7.60				
20	156,578	15.00	39.60	30.32		7.60				
21	166,596	16.00	42.24	30.40		7.60				
22	193,522	19.00	50.16	31.08		7.60				
23	171,651	17.00	44.88	31.35		7.51				
24	169,078	16.00	42.24	29.96		7.50				
25	181,355	18.00	47.52	31.42		7.50				
26	185,470	18.00	47.52	30.72		7.50				
27	155,991	15.00	39.60	30.44		7.50				
28	183,748	18.00	47.52	31.01		7.50				
29	201,995	20.00	52.80	31.34		7.60				
30	174,872	17.00	44.88	30.77		7.60				
31										
Total	5,093,526	496.00	1309.44							

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

508.376.3404

Fax:

508.376.2442

Date:

10/01/13

Title:

Water Feeder

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: September

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.11	7.58				
2	0	0.00	0.00	0.00	0.12	7.62				
3	0	0.00	0.00	0.00	0.10	7.57				
4	0	0.00	0.00	0.00	0.10	7.57				
5	0	0.00	0.00	0.00	0.10	7.57				
6	0	0.00	0.00	0.00	0.11	7.57				
7	0	0.00	0.00	0.00	0.11	7.51				
8	0	0.00	0.00	0.00	0.10	7.51				
9	0	0.00	0.00	0.00	0.10	7.51				
10	0	0.00	0.00	0.00	0.09	7.50				
11	0	0.00	0.00	0.00	0.10	7.45				
12	0	0.00	0.00	0.00	0.11	7.41				
13	0	0.00	0.00	0.00	0.12	7.41				
14	0	0.00	0.00	0.00	0.11	7.39				
15	0	0.00	0.00	0.00	0.12	7.41				
16	0	0.00	0.00	0.00	0.14	7.40				
17	0	0.00	0.00	0.00	0.12	7.38				
18	0	0.00	0.00	0.00	0.11	7.37				
19	0	0.00	0.00	0.00	0.10	7.40				
20	0	0.00	0.00	0.00	0.11	7.39				
21	0	0.00	0.00	0.00	0.15	7.39				
22	0	0.00	0.00	0.00	0.14	7.41				
23	0	0.00	0.00	0.00	0.10	7.38				
24	0	0.00	0.00	0.00	0.12	7.37				
25	0	0.00	0.00	0.00	0.12	7.39				
26	0	0.00	0.00	0.00	0.11	7.41				
27	0	0.00	0.00	0.00	0.12	7.39				
28	0	0.00	0.00	0.00	0.12	7.41				
29	0	0.00	0.00	0.00	0.12	7.41				
30	0	0.00	0.00	0.00	0.12	7.39				
31	0									
Total	0	0.00	0.00							

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

508 376 2444

Fax:

508 376 2442

Date:

10/1/13

Title:

Waterkeeper

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: October

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	300,222	0.75	1.13	0.45	0.23	7.17				
2	291,067	0.75	1.13	0.46	0.50	7.55				
3	293,480	0.75	1.13	0.46	0.45	7.05				
4	204,542	0.50	0.75	0.44	0.38	7.05				
5	253,265	0.50	0.75	0.36	0.36	7.54				
6	269,707	0.50	0.75	0.33	0.36	7.35				
7	169,962	0.50	0.75	0.53	0.36	7.51				
8	225,155	0.50	0.75	0.40	0.30	7.42				
9	222,566	0.50	0.75	0.40	0.26	7.44				
10	206,576	0.50	0.75	0.44	0.27	7.44				
11	236,694	0.50	0.75	0.38	0.26	7.44				
12	213,726	0.50	0.75	0.42	0.28	7.47				
13	246,830	0.50	0.75	0.37	0.30	7.51				
14	253,181	0.50	0.75	0.36	0.31	7.51				
15	217,665	0.50	0.75	0.41	0.29	7.52				
16	213,476	0.50	0.75	0.42	0.27	7.49				
17	217,333	0.50	0.75	0.41	0.27	7.48				
18	200,057	0.50	0.75	0.45	0.29	7.39				
19	243,275	0.50	0.75	0.37	0.28	7.41				
20	255,564	0.50	0.75	0.35	0.30	7.17				
21	290,073	0.50	0.75	0.31	0.29	7.37				
22	240,519	0.50	0.75	0.37	0.25	7.10				
23	240,310	0.50	0.75	0.37	0.27	7.17				
24	207,325	0.50	0.75	0.43	0.26	7.17				
25	178,576	0.50	0.75	0.50	0.26	7.17				
26	219,216	0.50	0.75	0.41	0.25	7.17				
27	244,265	0.50	0.75	0.37	0.25	7.17				
28	223,372	0.50	0.75	0.40	0.25	7.17				
29	214,905	0.50	0.75	0.42	0.23	7.17				
30	229,058	0.50	0.75	0.39	0.23	7.17				
31	215,516	0.50	0.75	0.42	0.22	7.17				
total	7,237,477	16.25	24.42							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition

chemicals added to drinking water must be approved by VWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: October

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	249,410	0.50	0.75	0.36	0.11	7.01				
2	245,994	0.50	0.75	0.37	0.11	7.00				
3	242,814	0.50	0.75	0.37	0.11	7.00				
4	168,623	0.50	0.75	0.53	0.11	7.00				
5	212,951	0.50	0.75	0.42	0.11	7.00				
6	224,855	0.50	0.75	0.40	0.11	7.00				
7	207,710	0.50	0.75	0.43	0.11	7.00				
8	197,506	0.50	0.75	0.46	0.11	7.00				
9	182,276	0.50	0.75	0.49	0.11	7.00				
10	172,752	0.50	0.75	0.52	0.11	7.00				
11	193,254	0.50	0.75	0.47	0.11	7.00				
12	177,348	0.50	0.75	0.51	0.11	7.00				
13	203,725	0.50	0.75	0.44	0.11	7.00				
14	208,741	0.00	0.00	0.00	0.11	7.00				
15	206,532	0.00	0.00	0.00	0.11	7.00				
16	179,653	0.00	0.00	0.00	0.11	7.00				
17	185,656	0.00	0.00	0.00	0.11	7.00				
18	166,733	0.00	0.00	0.00	0.11	7.00				
19	202,013	0.00	0.00	0.00	0.11	7.00				
20	214,182	0.00	0.00	0.00	0.11	7.00				
21	250,032	0.00	0.00	0.00	0.11	7.00				
22	202,738	0.00	0.00	0.00	0.10	7.00				
23	205,766	0.00	0.00	0.00	0.12	7.00				
24	206,446	0.00	0.00	0.00	0.12	7.00				
25	153,577	0.00	0.00	0.00	0.09	7.00				
26	182,641	0.00	0.00	0.00	0.00	7.33				
27	198,681	0.00	0.00	0.00	0.00	7.29				
28	191,342	0.00	0.00	0.00	0.00	7.31				
29	183,134	0.00	0.00	0.00	0.00	7.01				
30	191,940	0.00	0.00	0.00	0.00	7.16				
31	176,810	0.00	0.00	0.00	0.00	7.02				
total	6,185,835	6.50	9.77							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

chemicals added to drinking water must be approved by VWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: *[Signature]*

Date: 11/6/13

Title: *[Signature]*

Phone #: 508 376 5424

Fax: 508 376 2442

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: October

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones Chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.01	7.48				
2	0	0.00	0.00	0.00	0.04	7.38				
3	0	0.00	0.00	0.00	0.04	7.38				
4	0	0.00	0.00	0.00	0.04	7.38				
5	0	0.00	0.00	0.00	0.04	7.38				
6	0	0.00	0.00	0.00	0.04	7.38				
7	0	0.00	0.00	0.00	0.04	7.38				
8	0	0.00	0.00	0.00	0.04	7.38				
9	0	0.00	0.00	0.00	0.04	7.38				
10	0	0.00	0.00	0.00	0.04	7.38				
11	0	0.00	0.00	0.00	0.04	7.38				
12	0	0.00	0.00	0.00	0.04	7.38				
13	0	0.00	0.00	0.00	0.04	7.38				
14	0	0.00	0.00	0.00	0.04	7.38				
15	0	0.00	0.00	0.00	0.04	7.38				
16	0	0.00	0.00	0.00	0.04	7.38				
17	0	0.00	0.00	0.00	0.04	7.38				
18	0	0.00	0.00	0.00	0.04	7.38				
19	0	0.00	0.00	0.00	0.04	7.39				
20	0	0.00	0.00	0.00	0.04	7.38				
21	0	0.00	0.00	0.00	0.04	7.38				
22	11,423	0.00	0.00	0.00	0.03	7.39				
23	0	0.00	0.00	0.00	0.02	7.68				
24	0	0.00	0.00	0.00	0.02	9.04				
25	0	0.00	0.00	0.00	0.02	7.01				
26	0	0.00	0.00	0.00	0.03	7.01				
27	0	0.00	0.00	0.00	0.03	7.03				
28	0	0.00	0.00	0.00	0.03	7.01				
29	0	0.00	0.00	0.00	0.03	7.25				
30	0	0.00	0.00	0.00	0.02	7.41				
31	0	0.00	0.00	0.00	0.02	7.47				
Total	11,423	0.00	0.00							

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

508 376 5494

Fax:

508 376 2442

Date:

11/6/13

Title:

Water Tech

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: October

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	300,222	0.00	0.00	0.00	0.23	7.17				
2	291,067	0.00	0.00	0.00	0.50	7.55				
3	293,480	0.00	0.00	0.00	0.45	7.05				
4	204,542	0.00	0.00	0.00	0.38	7.05				
5	253,265	0.00	0.00	0.00	0.36	7.54				
6	269,707	0.00	0.00	0.00	0.36	7.35				
7	169,962	0.00	0.00	0.00	0.36	7.51				
8	225,155	0.00	0.00	0.00	0.30	7.42				
9	222,566	0.00	0.00	0.00	0.26	7.44				
10	206,576	0.00	0.00	0.00	0.27	7.44				
11	236,694	0.00	0.00	0.00	0.26	7.44				
12	213,726	0.00	0.00	0.00	0.28	7.47				
13	246,830	0.00	0.00	0.00	0.30	7.51				
14	253,181	0.00	0.00	0.00	0.31	7.51				
15	217,665	0.00	0.00	0.00	0.29	7.52				
16	213,476	0.00	0.00	0.00	0.27	7.49				
17	217,333	0.00	0.00	0.00	0.27	7.48				
18	200,057	0.00	0.00	0.00	0.29	7.39				
19	243,275	0.00	0.00	0.00	0.28	7.41				
20	255,564	0.00	0.00	0.00	0.30	7.17				
21	290,073	0.00	0.00	0.00	0.29	7.37				
22	240,519	0.00	0.00	0.00	0.25	7.10				
23	240,310	0.00	0.00	0.00	0.27	7.17				
24	207,325	0.00	0.00	0.00	0.26	7.17				
25	178,576	0.00	0.00	0.00	0.26	7.17				
26	219,216	0.00	0.00	0.00	0.25	7.17				
27	244,265	0.00	0.00	0.00	0.25	7.17				
28	223,372	0.00	0.00	0.00	0.25	7.17				
29	214,905	0.00	0.00	0.00	0.23	7.17				
30	229,058	0.00	0.00	0.00	0.23	7.17				
31	215,516	0.00	0.00	0.00	0.22	7.17				
total	7,237,477	0.00	0.00							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

chemicals added to drinking water must be approved by VWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Date: 4/6/13

Title: Water Treatment

Phone #: 508 376 8424

Fax: 508 376 2442

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well3

Reporting Period: Month: October

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	249,410	24.00	63.36	30.46	0.11	7.01				
2	245,994	24.00	63.36	30.88	0.11	7.00				
3	242,814	24.00	63.36	31.29	0.11	7.00				
4	168,623	16.00	42.24	30.04	0.11	7.00				
5	212,951	21.00	55.44	31.22	0.11	7.00				
6	224,855	22.00	58.08	30.97	0.11	7.00				
7	207,710	20.00	52.80	30.48	0.11	7.00				
8	197,506	19.00	50.16	30.45	0.11	7.00				
9	182,276	18.00	47.52	31.26	0.11	7.00				
10	172,752	17.00	44.88	31.15	0.11	7.00				
11	193,254	19.00	50.16	31.12	0.11	7.00				
12	177,348	17.00	44.88	30.34	0.11	7.00				
13	203,725	20.00	52.80	31.08	0.11	7.00				
14	208,741	20.00	52.80	30.33	0.11	7.00				
15	206,532	20.00	52.80	30.65	0.11	7.00				
16	179,653	17.00	44.88	29.95	0.11	7.00				
17	185,656	18.00	47.52	30.69	0.11	7.00				
18	166,733	16.00	42.24	30.38	0.11	7.00				
19	202,013	20.00	52.80	31.34	0.11	7.00				
20	214,182	21.00	55.44	31.04	0.11	7.00				
21	250,032	25.00	66.00	31.65	0.11	7.00				
22	202,738	20.00	52.80	31.23	0.10	7.00				
23	205,766	20.00	52.80	30.77	0.12	7.00				
24	206,446	20.00	52.80	30.67	0.12	7.00				
25	153,577	15.00	39.60	30.92	0.09	7.00				
26	182,641	18.00	47.52	31.20	0.00	7.33				
27	198,681	18.00	47.52	28.68	0.00	7.29				
28	191,342	19.00	50.16	31.43	0.00	7.31				
29	183,134	18.00	47.52	31.11	0.00	7.01				
30	191,940	19.00	50.16	31.33	0.00	7.16				
31	176,810	18.00	47.52	32.23	0.00	7.02				
Total	6,185,835	603.00	1591.92							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

chemicals added to drinking water must be approved by /WA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508 376 5424

Date:

11/6/13

Title:

Water Sol

Fax:

508 376 2442

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Well4

Reporting Period: Month: October

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ²	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴						Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other		
1	189,443	18.00	47.52	30.08		7.00					
2	187,771	18.00	47.52	30.34		7.60					
3	185,413	16.00	42.24	27.32		7.60					
4	130,199	13.00	34.32	31.61		7.60					
5	161,570	16.00	42.24	31.35		7.60					
6	174,072	17.00	44.88	30.91		7.60					
7	157,035	15.00	39.60	30.24		7.60					
8	150,892	15.00	39.60	31.47		7.60					
9	142,312	14.00	36.96	31.14		7.60					
10	132,945	13.00	34.32	30.95		7.60					
11	150,281	15.00	39.60	31.60		7.60					
12	135,275	13.00	34.32	30.42		7.60					
13	156,546	15.00	39.60	30.33		7.60					
14	161,386	16.00	42.24	31.38		7.60					
15	138,121	13.00	34.32	29.79		7.60					
16	137,333	13.00	34.32	29.96		7.60					
17	139,680	13.00	34.32	29.46		7.60					
18	128,648	12.00	31.68	29.53		7.60					
19	155,954	15.00	39.60	30.45		7.60					
20	164,219	16.00	42.24	30.84		7.60					
21	185,244	18.00	47.52	30.76		7.60					
22	154,580	15.00	39.60	30.72		7.38					
23	160,222	16.00	42.24	31.61		7.05					
24	129,877	12.00	31.68	29.25		7.05					
25	127,271	12.00	31.68	29.85		7.05					
26	145,677	14.00	36.96	30.42		7.04					
27	156,435	15.00	39.60	30.35		7.04					
28	145,026	14.00	36.96	30.56		7.00					
29	137,504	13.00	34.32	29.93		7.00					
30	147,469	14.00	36.96	30.05		7.00					
31	135,892	13.00	34.32	30.28		7.12					
total	4,704,292	452.00	1193.28	Notes: 1. A separate report is required for each chemical added for each facility.							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

chemicals added to drinking water must be approved by
/WA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out
this form and the information contained herein is true, accurate and
complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: October

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.01	7.48				
2	0	0.00	0.00	0.00	0.04	7.38				
3	0	0.00	0.00	0.00	0.04	7.38				
4	0	0.00	0.00	0.00	0.04	7.38				
5	0	0.00	0.00	0.00	0.04	7.38				
6	0	0.00	0.00	0.00	0.04	7.38				
7	0	0.00	0.00	0.00	0.04	7.38				
8	0	0.00	0.00	0.00	0.04	7.38				
9	0	0.00	0.00	0.00	0.04	7.38				
10	0	0.00	0.00	0.00	0.04	7.38				
11	0	0.00	0.00	0.00	0.04	7.38				
12	0	0.00	0.00	0.00	0.04	7.38				
13	0	0.00	0.00	0.00	0.04	7.38				
14	0	0.00	0.00	0.00	0.04	7.38				
15	0	0.00	0.00	0.00	0.04	7.38				
16	0	0.00	0.00	0.00	0.04	7.38				
17	0	0.00	0.00	0.00	0.04	7.38				
18	0	0.00	0.00	0.00	0.04	7.38				
19	0	0.00	0.00	0.00	0.04	7.39				
20	0	0.00	0.00	0.00	0.04	7.38				
21	0	0.00	0.00	0.00	0.04	7.38				
22	11,423	0.00	0.00	0.00	0.03	7.39				
23	0	0.00	0.00	0.00	0.02	7.68				
24	0	0.00	0.00	0.00	0.02	9.04				
25	0	0.00	0.00	0.00	0.02	7.01				
26	0	0.00	0.00	0.00	0.03	7.01				
27	0	0.00	0.00	0.00	0.03	7.03				
28	0	0.00	0.00	0.00	0.03	7.01				
29	0	0.00	0.00	0.00	0.03	7.25				
30	0	0.00	0.00	0.00	0.02	7.41				
31	0	0.00	0.00	0.00	0.02	7.47				
Total	11,423	0.00	0.00							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

I chemicals added to drinking water must be approved by NWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:

Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: November

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	177,406	0.00	0.00	0.00	0.27	6.82				
2	238,039	0.00	0.00	0.00	0.51	7.18				
3	247,619	0.00	0.00	0.00	0.05	7.18				
4	202,266	0.00	0.00	0.00	0.26	7.18				
5	207,737	0.00	0.00	0.00	0.28	7.21				
6	214,852	0.00	0.00	0.00	0.31	7.21				
7	211,552	0.00	0.00	0.00	0.33	7.18				
8	201,653	0.00	0.00	0.00	0.32	7.18				
9	208,896	0.00	0.00	0.00	0.32	7.02				
10	239,259	0.00	0.00	0.00	0.31	7.02				
11	220,786	0.00	0.00	0.00	0.33	7.03				
12	208,154	0.00	0.00	0.00	0.32	7.12				
13	205,705	0.00	0.00	0.00	0.29	7.03				
14	210,477	0.00	0.00	0.00	0.28	7.03				
15	189,786	0.00	0.00	0.00	0.27	7.31				
16	232,851	0.00	0.00	0.00	0.30	7.30				
17	248,833	0.00	0.00	0.00	0.33	7.30				
18	203,291	0.00	0.00	0.00	0.34	7.30				
19	208,865	0.00	0.00	0.00	0.30	7.29				
20	207,089	0.00	0.00	0.00	0.24	7.25				
21	225,315	0.00	0.00	0.00	0.25	7.11				
22	196,304	0.00	0.00	0.00	0.28	7.42				
23	219,201	0.00	0.00	0.00	0.31	7.21				
24	296,972	0.00	0.00	0.00	0.31	7.23				
25	226,803	0.00	0.00	0.00	0.26	7.08				
26	231,774	0.00	0.00	0.00	0.21	7.03				
27	277,352	0.00	0.00	0.00	0.23	7.03				
28	248,127	0.00	0.00	0.00	0.23	7.00				
29	226,973	0.00	0.00	0.00	0.23	7.03				
30	230,646	0.00	0.00	0.00	0.22	7.00				
31	0									
Total	6,664,581	0.00	0.00							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature: [Signature]

Phone #: 508 376 8404

Date: 12/2/13

Title: Water Fed

Fax: 508 376 2442

Email: _____



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well3

Reporting Period: Month: November

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name:

CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	173,701	17.00	44.88	30.98	0.00	6.83				
2	197,863	18.00	47.52	28.80	0.00	7.05				
3	206,829	20.00	52.80	30.61	0.00	7.05				
4	186,668	19.00	50.16	32.22	0.00	7.05				
5	173,616	18.00	47.52	32.82	0.00	7.06				
6	178,336	18.00	47.52	31.95	0.00	7.06				
7	193,367	20.00	52.80	32.74	0.00	7.06				
8	169,176	16.00	42.24	29.94	0.00	7.01				
9	173,138	17.00	44.88	31.08	0.00	7.03				
10	198,962	19.00	50.16	30.23	0.00	7.08				
11	183,164	18.00	47.52	31.11	0.00	7.12				
12	174,405	17.00	44.88	30.86	0.00	7.07				
13	44,035	4.00	10.56	28.75	0.00	7.24				
14	0	0.00	0.00	0.00	0.00	7.13				
15	0	0.00	0.00	0.00	0.00	7.16				
16	0	0.00	0.00	0.00	0.00	7.10				
17	0	0.00	0.00	0.00	0.00	7.27				
18	10,050	0.00	0.00	0.00	0.00	7.27				
19	10,014	0.00	0.00	0.00	0.00	7.07				
20	0	0.00	0.00	0.00	0.00	7.02				
21	0	0.00	0.00	0.00	0.00	7.02				
22	0	0.00	0.00	0.00	0.00	7.01				
23	0	0.00	0.00	0.00	0.00	7.01				
24	0	0.00	0.00	0.00	0.00	7.01				
25	0	0.00	0.00	0.00	0.00	7.01				
26	0	0.00	0.00	0.00	0.00	7.00				
27	0	0.00	0.00	0.00	0.00	7.01				
28	0	0.00	0.00	0.00	0.00	7.01				
29	0	0.00	0.00	0.00	0.00	7.01				
30	0	0.00	0.00	0.00	0.00	7.01				
31										
Total	2,273,324	221.00	583.44							

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

508 376 8424

Fax:

508 376 2442

Email:

Date:

12/2/13

Title:

united



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000 PWS Name: Public Works Department PWS Town: Millis
Treatment Facility Name: Well4 Reporting Period: Month: November Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide Purchased Strength (%): 25% Purchased Density²: 10.56
Manufacturer: UNIVAR Product Name: CAUSTIC SODA
Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	129,288	13.00	34.32	31.83		7.01				
2	150,582	15.00	39.60	31.53		7.03				
3	159,433	15.00	39.60	29.78		7.00				
4	140,911	14.00	36.96	31.45		7.03				
5	139,950	13.00	34.32	29.40		7.00				
6	137,190	14.00	36.96	32.30		7.01				
7	135,935	14.00	36.96	32.60		7.00				
8	129,596	13.00	34.32	31.75		7.00				
9	134,564	14.00	36.96	32.93		7.00				
10	152,191	15.00	39.60	31.20		7.00				
11	140,601	14.00	36.96	31.52		7.00				
12	132,451	13.00	34.32	31.07		7.00				
13	131,923	13.00	34.32	31.19		7.02				
14	134,447	13.00	34.32	30.61		7.00				
15	140,013	14.00	36.96	31.65		7.00				
16	148,046	14.00	36.96	29.93		7.00				
17	157,701	16.00	42.24	32.12		7.00				
18	135,988	13.00	34.32	30.26		7.00				
19	138,899	13.00	34.32	29.63		7.04				
20	131,455	13.00	34.32	31.30		7.00				
21	142,618	14.00	36.96	31.07		7.00				
22	126,270	12.00	31.68	30.08		7.07				
23	140,677	14.00	36.96	31.50		7.10				
24	186,434	18.00	47.52	30.56		7.09				
25	137,728	13.00	34.32	29.88		7.10				
26	147,045	14.00	36.96	30.14		7.12				
27	174,883	17.00	44.88	30.77		7.10				
28	146,353	15.00	39.60	32.44		7.10				
29	141,527	14.00	36.96	31.31		7.02				
30	147,301	14.00	36.96	30.09		7.06				
31										
Total	4,292,000	421.00	1111.44							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:

All chemicals added to drinking water must be approved by
MWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out
this form and the information contained herein is true, accurate and
complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: November

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.49	7.35				
2	0	0.00	0.00	0.00	0.02	7.56				
3	0	0.00	0.00	0.00	0.03	7.63				
4	0	0.00	0.00	0.00	0.02	7.64				
5	0	0.00	0.00	0.00	0.02	7.53				
6	0	0.00	0.00	0.00	0.02	7.38				
7	0	0.00	0.00	0.00	0.02	7.15				
8	0	0.00	0.00	0.00	0.02	7.09				
9	0	0.00	0.00	0.00	0.02	7.14				
10	0	0.00	0.00	0.00	0.02	7.19				
11	0	0.00	0.00	0.00	0.02	7.21				
12	0	0.00	0.00	0.00	0.01	7.37				
13	157,491	16.00	42.24	32.16	0.02	7.59				
14	166,431	16.00	42.24	30.43	0.01	7.45				
15	148,588	15.00	39.60	31.96	0.02	7.04				
16	184,258	18.00	47.52	30.92	0.02	7.26				
17	194,557	19.00	50.16	30.91	0.02	7.23				
18	159,396	15.00	39.60	29.79	0.02	7.22				
19	172,278	17.00	44.88	31.24	0.02	7.22				
20	183,058	18.00	47.52	31.13	0.02	7.21				
21	178,028	17.00	44.88	30.23	0.03	7.19				
22	153,461	15.00	39.60	30.94	0.81	7.41				
23	172,258	17.00	44.88	31.24	0.64	7.40				
24	179,006	17.00	44.88	30.06	0.45	7.38				
25	163,689	16.00	42.24	30.94	0.44	7.36				
26	154,541	15.00	39.60	30.72	0.53	7.40				
27	218,782	21.00	55.44	30.38	0.59	7.38				
28	196,993	19.00	50.16	30.53	0.51	7.37				
29	177,445	17.00	44.88	30.33	0.49	7.35				
30	183,138	18.00	47.52	31.11	0.49	7.35				
31	0									
Total	3,143,397	306.00	807.84							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date: 12/2/13

Title: Water Fed

Fax: 508 376 2442

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

COPY C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: November

Year: 2013

DAILY REPORTING:

Chemical Name: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density: 10.02

Manufacturer: Jones Chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	177,406	0.50	0.75	0.51	0.27	6.82				
2	238,039	0.75	1.13	0.57	0.51	7.18				
3	247,619	0.75	1.13	0.55	0.05	7.18				
4	202,266	0.50	0.75	0.45	0.26	7.18				
5	207,737	0.50	0.75	0.43	0.28	7.21				
6	214,852	0.50	0.75	0.42	0.31	7.21				
7	211,552	0.50	0.75	0.43	0.33	7.18				
8	201,653	0.50	0.75	0.45	0.32	7.18				
9	208,896	0.50	0.75	0.43	0.32	7.02				
10	239,259	0.75	1.13	0.56	0.31	7.02				
11	220,786	0.75	1.13	0.61	0.33	7.03				
12	208,154	0.50	0.75	0.43	0.32	7.12				
13	205,705	0.50	0.75	0.44	0.29	7.03				
14	210,477	0.75	1.13	0.64	0.28	7.03				
15	189,786	0.50	0.75	0.47	0.27	7.31				
16	232,851	0.75	1.13	0.58	0.30	7.30				
17	248,833	0.75	1.13	0.54	0.33	7.30				
18	203,291	0.50	0.75	0.44	0.34	7.30				
19	208,865	0.50	0.75	0.43	0.30	7.29				
20	207,089	0.50	0.75	0.44	0.24	7.25				
21	225,315	0.50	0.75	0.40	0.25	7.11				
22	196,304	0.50	0.75	0.46	0.28	7.42				
23	219,201	0.50	0.75	0.41	0.31	7.21				
24	296,972	0.50	0.75	0.30	0.31	7.23				
25	226,803	0.50	0.75	0.40	0.26	7.08				
26	231,774	0.50	0.75	0.39	0.21	7.03				
27	277,352	0.75	1.13	0.49	0.23	7.03				
28	248,127	0.50	0.75	0.36	0.23	7.00				
29	226,973	0.50	0.75	0.40	0.23	7.03				
30	230,646	0.50	0.75	0.39	0.22	7.00				
31										
Total:	6,664,581	17.00	25.55							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

If chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone#: 508-376-8424

Fax: 508-376-2442

Date: 12/2/13

Title: Water Feeder

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 3

Reporting Period: Month: November

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	173,701	0.00	0.00	0.00	0.00	6.83					
2	197,863	0.00	0.00	0.00	0.00	7.05					
3	206,829	0.00	0.00	0.00	0.00	7.05					
4	186,668	0.00	0.00	0.00	0.00	7.05					
5	173,616	0.00	0.00	0.00	0.00	7.06					
6	178,336	0.00	0.00	0.00	0.00	7.06					
7	193,367	0.00	0.00	0.00	0.00	7.06					
8	169,176	0.00	0.00	0.00	0.00	7.01					
9	173,138	0.00	0.00	0.00	0.00	7.03					
10	198,962	0.00	0.00	0.00	0.00	7.08					
11	183,164	0.00	0.00	0.00	0.00	7.12					
12	174,405	0.00	0.00	0.00	0.00	7.07					
13	44,035	0.00	0.00	0.00	0.00	7.24					
14	0	0.00	0.00	0.00	0.00	7.13					
15	0	0.00	0.00	0.00	0.00	7.16					
16	0	0.00	0.00	0.00	0.00	7.10					
17	0	0.00	0.00	0.00	0.00	7.27					
18	10,050	0.00	0.00	0.00	0.00	7.27					
19	10,014	0.00	0.00	0.00	0.00	7.07					
20	0	0.00	0.00	0.00	0.00	7.02					
21	0	0.00	0.00	0.00	0.00	7.02					
22	0	0.00	0.00	0.00	0.00	7.01					
23	0	0.00	0.00	0.00	0.00	7.01					
24	0	0.00	0.00	0.00	0.00	7.01					
25	0	0.00	0.00	0.00	0.00	7.01					
26	0	0.00	0.00	0.00	0.00	7.00					
27	0	0.00	0.00	0.00	0.00	7.01					
28	0	0.00	0.00	0.00	0.00	7.01					
29	0	0.00	0.00	0.00	0.00	7.01					
30	0	0.00	0.00	0.00	0.00	7.01					
31											
Total	2,273,324	0.00	0.00								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: November

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴						Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.	
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other			
1	0	0.00	0.00	0.00	0.49	7.35						
2	0	0.00	0.00	0.00	0.02	7.56						
3	0	0.00	0.00	0.00	0.03	7.63						
4	0	0.00	0.00	0.00	0.02	7.64						
5	0	0.00	0.00	0.00	0.02	7.53						
6	0	0.00	0.00	0.00	0.02	7.38						
7	0	0.00	0.00	0.00	0.02	7.15						
8	0	0.00	0.00	0.00	0.02	7.09						
9	0	0.00	0.00	0.00	0.02	7.14						
10	0	0.00	0.00	0.00	0.02	7.19						
11	0	0.00	0.00	0.00	0.02	7.21						
12	0	0.00	0.00	0.00	0.01	7.37						
13	157,491	0.25	0.38	0.29	0.02	7.59						
14	166,431	0.25	0.38	0.27	0.01	7.45						
15	148,588	0.25	0.38	0.30	0.02	7.04						
16	184,258	0.50	0.75	0.49	0.02	7.26						
17	194,557	0.50	0.75	0.46	0.02	7.23						
18	159,396	0.50	0.75	0.57	0.02	7.22						
19	172,278	0.50	0.75	0.52	0.02	7.22						
20	183,058	0.50	0.75	0.49	0.02	7.21						
21	178,028	1.00	1.50	1.01	0.03	7.19						
22	153,461	0.50	0.75	0.59	0.81	7.41						
23	172,258	0.75	1.13	0.78	0.64	7.40						
24	179,006	0.75	1.13	0.76	0.45	7.38						
25	163,689	0.50	0.75	0.55	0.44	7.36						
26	154,541	0.50	0.75	0.58	0.53	7.40						
27	218,782	0.50	0.75	0.41	0.59	7.38						
28	196,993	0.50	0.75	0.46	0.51	7.37						
29	177,445	0.50	0.75	0.51	0.49	7.35						
30	183,138	0.50	0.75	0.49	0.49	7.35						
31												
Total	3,143,397	9.25	13.90	Notes: 1. A separate report is required for each chemical added for each facility.								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 12/4/13

Title: Water Feeder

Phone #: 508 376 8404

Fax: 508 376 2412

Email:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 1 & 2

Reporting Period: Month: December

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	251,749	0.00	0.00	0.00	0.62	8.25				
2	205,835	0.00	0.00	0.00	0.29	7.01				
3	233,721	0.00	0.00	0.00	0.26	7.00				
4	200,949	0.00	0.00	0.00	0.24	7.01				
5	235,592	0.00	0.00	0.00	0.23	7.02				
6	202,328	0.00	0.00	0.00	0.25	7.03				
7	208,565	0.00	0.00	0.00	0.25	7.03				
8	270,524	0.00	0.00	0.00	0.24	7.00				
9	219,270	0.00	0.00	0.00	0.23	7.02				
10	164,178	0.00	0.00	0.00	0.19	7.00				
11	175,446	0.00	0.00	0.00	0.15	7.01				
12	171,141	0.00	0.00	0.00	0.13	7.01				
13	134,621	0.00	0.00	0.00	0.39	7.12				
14	180,082	0.00	0.00	0.00	0.40	7.10				
15	219,138	0.00	0.00	0.00	0.41	7.12				
16	173,870	0.00	0.00	0.00	0.43	7.14				
17	171,810	0.00	0.00	0.00	0.41	7.11				
18	171,842	0.00	0.00	0.00	0.38	7.04				
19	181,502	0.00	0.00	0.00	0.40	7.06				
20	165,862	0.00	0.00	0.00	0.40	7.42				
21	192,370	0.00	0.00	0.00	0.42	7.51				
22	197,609	0.00	0.00	0.00	0.43	7.30				
23	0	0.00	0.00	0.00	0.43	7.06				
24	0	0.00	0.00	0.00	0.03	7.07				
25	0	0.00	0.00	0.00	1.25	7.07				
26	0	0.00	0.00	0.00	0.47	7.07				
27	0	0.00	0.00	0.00	1.88	7.38				
28	0	0.00	0.00	0.00	1.88	7.64				
29	0	0.00	0.00	0.00	0.06	7.64				
30	116,191	0.00	0.00	0.00	0.17	7.64				
31	164,155	0.00	0.00	0.00	0.11	7.44				
Total	4,608,351	0.00	0.00							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well3

Reporting Period:

Month: December

Year: 2013

II. DAILY REPORTING:

Chemical Name: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²: 10.56

Manufacturer: univar

Product Name:

CAUSTIC SODA

Reason for Adding Chemical:

PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.27	6.56				
2	0	0.00	0.00	0.00	0.26	7.01				
3	0	0.00	0.00	0.00	0.27	7.00				
4	0	0.00	0.00	0.00	0.27	7.01				
5	0	0.00	0.00	0.00	0.25	7.03				
6	0	0.00	0.00	0.00	0.25	7.00				
7	0	0.00	0.00	0.00	0.24	7.01				
8	0	0.00	0.00	0.00	0.24	7.01				
9	0	0.00	0.00	0.00	0.23	7.00				
10	139,459	13.00	34.32	29.51	0.25	7.01				
11	142,729	14.00	36.96	31.05	0.24	7.00				
12	141,857	14.00	36.96	31.24	0.24	7.00				
13	128,770	12.00	31.68	29.50	0.24	7.01				
14	148,305	14.00	36.96	29.88	0.24	7.01				
15	178,749	17.00	44.88	30.11	0.25	7.02				
16	142,511	14.00	36.96	31.10	0.25	7.00				
17	141,527	14.00	36.96	31.31	0.27	7.00				
18	143,658	14.00	36.96	30.85	0.26	7.03				
19	149,967	14.00	36.96	29.55	0.26	7.02				
20	137,657	14.00	36.96	32.19	0.28	7.03				
21	162,018	16.00	42.24	31.26	0.28	7.03				
22	177,566	17.00	44.88	30.31	0.27	7.03				
23	214,697	21.00	55.44	30.96	0.27	7.21				
24	223,473	22.00	58.08	31.16	0.29	7.02				
25	189,423	18.00	47.52	30.08	0.29	7.16				
26	196,926	19.00	50.16	30.54	0.29	7.18				
27	187,522	18.00	47.52	30.38	0.24	7.03				
28	193,870	19.00	50.16	31.02	0.23	7.08				
29	218,336	21.00	55.44	30.45	0.24	7.10				
30	165,713	16.00	42.24	30.56	0.23	7.09				
31	138,644	13.00	34.32	29.68	0.33	7.08				
Total	3,663,377	354.00	934.56							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

5083768424

Fax:

5083762442

Date:

1/3/14

Title:

Water Tech

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Well4

Reporting Period: Month: December

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%):

25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name:

CAUSTIC SODA

Reason for Adding Chemical:

PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	158,154	15.00	39.60	30.02		7.11				
2	130,110	13.00	34.32	31.63		7.07				
3	148,433	15.00	39.60	31.99		7.10				
4	131,192	13.00	34.32	31.37		7.10				
5	150,784	15.00	39.60	31.49		7.10				
6	128,076	12.00	31.68	29.66		7.10				
7	133,472	13.00	34.32	30.83		7.10				
8	172,910	17.00	44.88	31.12		7.10				
9	141,759	14.00	36.96	31.26		7.10				
10	110,225	11.00	29.04	31.59		7.10				
11	114,229	11.00	29.04	30.48		7.10				
12	111,303	11.00	29.04	31.28		7.10				
13	105,943	11.00	29.04	32.87		7.10				
14	117,089	11.00	29.04	29.74		7.10				
15	141,624	14.00	36.96	31.29		7.09				
16	111,843	11.00	29.04	31.13		7.09				
17	116,679	11.00	29.04	29.84		7.10				
18	113,073	11.00	29.04	30.79		7.11				
19	120,268	12.00	31.68	31.58		7.10				
20	107,389	10.00	26.40	29.48		7.10				
21	128,492	12.00	31.68	29.56		7.10				
22	128,506	12.00	31.68	29.56		7.13				
23	165,011	16.00	42.24	30.69		7.10				
24	173,673	17.00	44.88	30.99		7.10				
25	148,734	14.00	36.96	29.80		7.12				
26	152,880	15.00	39.60	31.06		7.10				
27	146,063	14.00	36.96	30.34		7.10				
28	151,834	15.00	39.60	31.27		7.10				
29	169,953	16.00	42.24	29.80		7.10				
30	117,743	11.00	29.04	29.57		7.10				
31	110,365	11.00	29.04	31.55		7.10				
Total	4,157,809	404.00	1066.56							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

508 376 3424

Fax:

508 376 2442

Date:

1/3/14

Title:

untested

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 5 & 6

Reporting Period:

Month: December

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hydroxide

Purchased Strength (%): 25%

Purchased Density²: 10.56

Manufacturer: UNIVAR

Product Name: CAUSTIC SODA

Reason for Adding Chemical: PH adjustment for corrosion control

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Other	Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)			
1	198,128	20.00	52.80	31.95	0.11	7.32					
2	162,827	16.00	42.24	31.11	0.36	7.36					
3	183,442	18.00	47.52	31.06	0.30	7.36					
4	162,222	16.00	42.24	31.22	0.31	7.36					
5	185,453	18.00	47.52	30.72	0.28	7.36					
6	158,717	16.00	42.24	31.91	0.26	7.35					
7	163,838	16.00	42.24	30.91	0.34	7.36					
8	214,460	21.00	55.44	31.00	0.34	7.35					
9	172,012	17.00	44.88	31.28	0.35	7.35					
10	125,307	12.00	31.68	30.31	0.35	7.35					
11	133,427	13.00	34.32	30.84	0.49	7.36					
12	130,654	13.00	34.32	31.50	0.48	7.37					
13	122,902	12.00	31.68	30.91	0.03	7.34					
14	138,164	13.00	34.32	29.78	0.34	7.35					
15	166,275	16.00	42.24	30.46	0.36	7.35					
16	131,369	13.00	34.32	31.32	0.35	7.35					
17	138,997	13.00	34.32	29.61	0.29	7.35					
18	130,456	13.00	34.32	31.54	0.21	7.33					
19	138,094	13.00	34.32	29.80	0.25	7.35					
20	125,207	12.00	31.68	30.34	0.20	7.34					
21	148,868	14.00	36.96	29.77	0.29	7.34					
22	149,730	14.00	36.96	29.60	0.29	7.34					
23	200,510	20.00	52.80	31.57	0.26	7.35					
24	211,432	21.00	55.44	31.44	0.27	7.33					
25	179,519	17.00	44.88	29.98	0.38	7.33					
26	182,813	16.00	42.24	27.70	0.38	7.32					
27	176,628	17.00	44.88	30.47	0.38	7.33					
28	179,263	17.00	44.88	30.02	0.24	7.32					
29	204,346	20.00	52.80	30.98	0.39	7.33					
30	139,573	13.00	34.32	29.48	0.26	7.33					
31	127,807	12.00	31.68	29.72	0.17	7.32					
Total	4,982,440	482.00	1272.48								

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

COPY

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 1 & 2

Reporting Period:

Month: December

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%):

15%

Purchased Density²: 10.02

Manufacturer: Jones chemical

Product Name:

BORCHLOR 15%

Reason for Adding Chemical:

Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	251,749	0.75	1.13	0.54	0.62	8.25				
2	205,835	0.50	0.75	0.44	0.29	7.01				
3	233,721	0.75	1.13	0.58	0.26	7.00				
4	200,949	0.50	0.75	0.45	0.24	7.01				
5	235,592	0.75	1.13	0.57	0.23	7.02				
6	202,328	0.75	1.13	0.67	0.25	7.03				
7	208,565	0.75	1.13	0.65	0.25	7.03				
8	270,524	1.00	1.50	0.67	0.24	7.00				
9	219,270	0.50	0.75	0.41	0.23	7.02				
10	164,178	0.50	0.75	0.55	0.19	7.00				
11	175,446	0.50	0.75	0.51	0.15	7.01				
12	171,141	0.50	0.75	0.53	0.13	7.01				
13	134,621	0.50	0.75	0.67	0.39	7.12				
14	180,082	0.50	0.75	0.50	0.40	7.10				
15	219,138	0.75	1.13	0.62	0.41	7.12				
16	173,870	0.50	0.75	0.52	0.43	7.14				
17	171,810	0.50	0.75	0.52	0.41	7.11				
18	171,842	0.50	0.75	0.52	0.38	7.04				
19	181,502	0.50	0.75	0.50	0.40	7.06				
20	165,862	0.50	0.75	0.54	0.40	7.42				
21	192,370	0.50	0.75	0.47	0.42	7.51				
22	197,609	0.50	0.75	0.46	0.43	7.30				
23	0	0.00	0.00	0.00	0.43	7.06				
24	0	0.00	0.00	0.00	0.03	7.07				
25	0	0.00	0.00	0.00	1.25	7.07				
26	0	0.00	0.00	0.00	0.47	7.07				
27	0	0.00	0.00	0.00	1.88	7.38				
28	0	0.00	0.00	0.00	1.88	7.64				
29	0	0.00	0.00	0.00	0.06	7.64				
30	116,191	0.25	0.38	0.39	0.17	7.64				
31	164,155	0.50	0.75	0.55	0.11	7.44				
Total	4,608,351	13.75	20.67							

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Date: 1/3/14

Title: water tech

Phone #: 508 316 8464

Fax: 508 316 2442

Email:

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name:

Wells 3

Reporting Period:

Month: December

Year: 2013

DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day ³	Chemical Dosage (lbs/day) ³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable ⁴					Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.
					Residual (mg/L)	pH	Alk	Ortho(PO ₄) (mg/L)	Other	
1	0	0.00	0.00	0.00	0.27	6.56				
2	0	0.00	0.00	0.00	0.26	7.01				
3	0	0.00	0.00	0.00	0.27	7.00				
4	0	0.00	0.00	0.00	0.27	7.01				
5	0	0.00	0.00	0.00	0.25	7.03				
6	0	0.00	0.00	0.00	0.25	7.00				
7	0	0.00	0.00	0.00	0.24	7.01				
8	0	0.00	0.00	0.00	0.24	7.01				
9	0	0.00	0.00	0.00	0.23	7.00				
10	139,459	0.25	0.38	0.32	0.25	7.01				
11	142,729	0.25	0.38	0.32	0.24	7.00				
12	141,857	0.25	0.38	0.32	0.24	7.00				
13	128,770	0.25	0.38	0.35	0.24	7.01				
14	148,305	0.25	0.38	0.30	0.24	7.01				
15	178,749	0.25	0.38	0.25	0.25	7.02				
16	142,511	0.25	0.38	0.32	0.25	7.00				
17	141,527	0.25	0.38	0.32	0.27	7.00				
18	143,658	0.25	0.38	0.31	0.26	7.03				
19	149,967	0.25	0.38	0.30	0.26	7.02				
20	137,657	0.25	0.38	0.33	0.28	7.03				
21	162,018	0.25	0.38	0.28	0.28	7.03				
22	177,566	0.25	0.38	0.25	0.27	7.03				
23	214,697	0.50	0.75	0.42	0.27	7.21				
24	223,473	0.50	0.75	0.40	0.29	7.02				
25	189,423	0.50	0.75	0.48	0.29	7.16				
26	196,926	0.50	0.75	0.46	0.29	7.18				
27	187,522	0.50	0.75	0.48	0.24	7.03				
28	193,870	0.50	0.75	0.46	0.23	7.08				
29	218,336	0.50	0.75	0.41	0.24	7.10				
30	165,713	0.25	0.38	0.27	0.23	7.09				
31	138,644	0.25	0.38	0.32	0.33	7.08				
Total	3,663,377	7.25	10.90							

Notes: 1. A separate report is required for each chemical added for each facility.

2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals

3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)

4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

PWS Authorized Signature:

Phone #:

Date:

Title:

Fax:

Email:

All chemicals added to drinking water must be approved by WWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHEMICAL ADDITION REPORT - 310 CMR 22.15(4) Chemical Addition Reporting Requirements

C-ADD

I. PWS INFORMATION:

PWS ID#: 2187000

PWS Name: Public Works Department

PWS Town: Millis

Treatment Facility Name: Wells 5 & 6

Reporting Period: Month: December

Year: 2013

II. DAILY REPORTING:

Chemical Name¹: Sodium Hypochlorite

Purchased Strength (%): 15%

Purchased Density²: 10.02

Manufacturer: Jones chemical

Product Name: BORCHLOR 15%

Reason for Adding Chemical: Disinfection

Day	Treated Water (Gallons)	Volume of Chemical Used liters/day gal/day³	Chemical Dosage (lbs/day)³	Chemical Dosage (mg/L)	Water Quality Parameters, if applicable⁴						Comments: Note any equipment breakdown, changes in purchased product, or batch mixing day, etc.	
					Residual (mg/L)	pH	Alk	Ortho(PO₄) (mg/L)	Other			
1	198,128	0.50	0.75	0.45	0.11	7.32						
2	162,827	0.50	0.75	0.55	0.36	7.36						
3	183,442	0.50	0.75	0.49	0.30	7.36						
4	162,222	0.50	0.75	0.56	0.31	7.36						
5	185,453	0.50	0.75	0.49	0.28	7.36						
6	158,717	0.50	0.75	0.57	0.26	7.35						
7	163,838	0.50	0.75	0.55	0.34	7.36						
8	214,460	0.75	1.13	0.63	0.34	7.35						
9	172,012	0.50	0.75	0.52	0.35	7.35						
10	125,307	0.50	0.75	0.72	0.35	7.35						
11	133,427	0.50	0.75	0.68	0.49	7.36						
12	130,654	0.50	0.75	0.69	0.48	7.37						
13	122,902	0.50	0.75	0.73	0.03	7.34						
14	138,164	0.50	0.75	0.65	0.34	7.35						
15	166,275	0.50	0.75	0.54	0.36	7.35						
16	131,369	0.50	0.75	0.69	0.35	7.35						
17	138,997	0.50	0.75	0.65	0.29	7.35						
18	130,456	0.50	0.75	0.69	0.21	7.33						
19	138,094	0.50	0.75	0.65	0.25	7.35						
20	125,207	0.25	0.38	0.36	0.20	7.34						
21	148,868	0.25	0.38	0.30	0.29	7.34						
22	149,730	0.25	0.38	0.30	0.29	7.34						
23	200,510	0.50	0.75	0.45	0.26	7.35						
24	211,432	0.50	0.75	0.43	0.27	7.33						
25	179,519	0.50	0.75	0.50	0.38	7.33						
26	182,813	0.50	0.75	0.49	0.38	7.32						
27	176,628	0.50	0.75	0.51	0.38	7.33						
28	179,263	0.50	0.75	0.50	0.24	7.32						
29	204,346	0.50	0.75	0.44	0.39	7.33						
30	139,573	0.25	0.38	0.32	0.26	7.33						
31	127,807	0.25	0.38	0.35	0.17	7.32						
Total	4,982,440	14.50	21.79	Notes: 1. A separate report is required for each chemical added for each facility.								

- Notes: 1. A separate report is required for each chemical added for each facility.
2. (lbs/ft³) for dry chemicals; (lbs/gal) for liquid chemicals
3. Liquid fed system enter (L, or gal/day), dry fed system enter (lb/day)
4. Enter the appropriate parameter that is monitored just downstream of chemical addition.

All chemicals added to drinking water must be approved by AWWA/NSF for use in potable water.

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

PWS Authorized Signature:

Phone #:

Date: 1/3/14

Title: water tech

Fax: 508 376 2442

Email: