



Town of Holbrook
Office of Joint Superintendent
(781) 767-1800

RANDOLPH-HOLBROOK JOINT WATER BOARD

50 North Franklin Street
Holbrook, MA 02343



Town of Randolph

April 7, 2024

Commonwealth of Massachusetts
Department of Environmental Protection
Southeast Regional Office
20 Riverside Drive
Lakeville, MA 02374

Monthly Reports Filtered System Forms
Forms F, G, I, J, TT
Analysis for TOC, DOC, SUVA
Chemical Addition Reports
DBPR Compliance Report
March, 2024 Randolph/Holbrook
Joint Water System, PWS #424001

Gentlemen:

Enclosed please find all reports as referenced above for the month of March, 2024. Should there be any questions, please do not hesitate to call me.

Sincerely,

William Platt
Treatment Plant Operator, Class Three

Enclosures

Cc: Board of Health Holbrook
Board of Health Randolph
Brian Howard, Town Manager, Randolph
Ryan Allgrove, EPG



TURBIDITY DATA SHEET FOR FILTERED SYSTEMS

I. PWS INFORMATION:

PWSID#:	4244001	PWS Name:	RANDOLPH-HOLBROOK JOINT WATER	PWS Town:	Randolph	
Treatment Plant Name:	RANDOLPH WATER PLANT	Reporting Period →	Month:	MARCH	Year:	2024

II. DAILY REPORTING:

Filtered Water Turbidity Measured: (check only one) Combined Filter Effluent Individual Filter Effluent' Clearwell Plant Effluent

Filtration Technology: Conventional Direct Alternative Slow Sand Diatomaceous Earth

Monthly Turbidity (95%) NTU Limit = 0.3 Max Day Turbidity NTU Limit = 1
 Monthly Turbidity (95%) NTU Limit = 1 Max Day Turbidity NTU Limit = 5

Day	Max Filtered Water Turbidity Result ² (NTU)	Number of Turbidity Measurements ³	Number of Turbidity Measurements < Monthly (95%) NTU Limit ⁴	Number of Turbidity Measurements > Max Day NTU Limit ⁵
1	0.04	6	6	0
2	0.04	6	6	0
3	0.04	6	6	0
4	0.05	6	6	0
5	0.04	6	6	0
6	0.05	6	6	0
7	0.05	6	6	0
8	0.04	6	6	0
9	0.05	6	6	0
10	0.06	6	6	0
11	0.05	6	6	0
12	0.05	6	6	0
13	0.05	6	6	0
14	0.05	6	6	0
15	0.05	6	6	0
16	0.05	6	6	0
17	0.05	6	6	0
18	0.04	6	6	0
19	0.03	6	6	0
20	0.03	6	6	0
21	0.03	6	6	0
22	0.04	6	6	0
23	0.02	6	6	0
24	0.03	6	6	0
25	0.03	6	6	0
26	0.04	6	6	0
27	0.03	6	6	0
28	0.03	6	6	0
29	0.03	6	6	0
30	0.03	6	6	0
31	0.04	6	6	0
Totals:		186	186	% Turbidity Meeting 95% Limit
		A	B	B/A x 100 % = X (Enter on SWTR - Form G)

- May be used by systems serving less than 10,000 persons, subject to DEP approval.
- Enter the Maximum Filtered Water Turbidity Result recorded each day, at the 4th hour or other approved interval.
- Enter the Total # of Turbidity measurements taken for each day. Measurements must be taken at a minimum of 4-hour intervals (i.e. 6 readings per day). For continuous monitors count each 4-hour period as 1 measurement. Record the actual turbidity result at the specified interval of time. Do not average turbidity measurements. If DEP approved, 15-minute readings (i.e. 96 readings per day) may be submitted. Filtered turbidity data must be kept on file for DEP review.
- Out of the # of turbidity measurements taken and recorded in the previous column, enter the number of turbidity measurements that were less than or equal to the Monthly (95%) NTU Limit for the filtration technology used.
- If at any time the filtered turbidity Max Day NTU Limit is exceeded, the DEP must be notified no later than the end of the next business day. For each exceedance, record the turbidity value(s) and date(s) on SWTR - Form G

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: 3/7/24 Title: Plant Operator

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.



Compliance Determination for Filtered Systems - Monthly Report

I. PWS INFORMATION:

PWSID#:	4244001	PWS Name:	RANDOLPH-HOLBROOK JOINT WATER	PWS Town:	Randolph
Treatment Plant Name:	RANDOLPH WATER PLANT	Reporting Period →	Month:	MARCH	Year: 2024

II. TURBIDITY PERFORMANCE CRITERIA:

1.	Monthly Turbidity (95%) NTU Limit - The turbidity level of a system's filtered water must be less than or equal to the Monthly Turbidity NTU Limit in at least 95% of the measurements taken each month for the filtration technology used, otherwise SWTR TT Violation (Tier 2).	
186	= A	Total # of filtered water turbidity measurements for month (SWTR - Form F)
186	= B	Total # of filtered water turbidity measurements less than or equal to the specified limits for the filtration technology used. (SWTR - Form F)
100	= (B / A) x 100	The percentage of turbidity measurements meeting the Monthly Turbidity 95% NTU Limit.

2.	Max Day NTU Limit - The turbidity level of a system's filtered water must at no time exceed the Max Day NTU Limit for the filtration technology used, otherwise SWTR TT Violation (Tier 2).	
Record the date and turbidity value for any measurements exceeding the Max Day NTU. Check box <input type="checkbox"/> if "None"		
Date	Value	Date Reported to DEP
For each day the Max Day NTU limit is exceeded, the DEP must be notified by the end of the next business day. SWTR TT Violation (Tier 2). If DEP is not consulted within 24 hours then it is a SWTR TT (Tier 1) violation requiring public notification within 24 hours.		

III. DISINFECTION PERFORMANCE CRITERIA:

1.	Point-of-Entry Minimum Disinfectant Residual Criteria - Residual Disinfectant concentration cannot be < 0.2 mg/L for more than 4 hours. SWTR TT Violation (Tier 2).												
Minimum Disinfectant Residual at Point-of-Entry to Distribution System													
Day	Cl₂ mg/l	Day	Cl₂ mg/l	Day	Cl₂ mg/l	Day	Cl₂ mg/l	Day	Cl₂ mg/l	Day	Cl₂ mg/l	Day	Cl₂ mg/l
1	2.09	6	1.47	11	2.10	16	2.09	21	2.03	26	1.88	31	1.94
2	2.30	7	1.92	12	2.20	17	2.02	22	2.16	27	2.07	Residual Measured <input checked="" type="checkbox"/> Free Cl ₂ <input type="checkbox"/> Total Cl ₂ <input type="checkbox"/> Combined Cl ₂	
3	2.22	8	1.90	13	2.06	18	2.14	23	2.12	28	1.92		
4	2.16	9	2.00	14	2.09	19	1.96	24	2.11	29	1.95		
5	2.23	10	1.92	15	2.13	20	1.92	25	2.22	30	1.91		

If at any time the residual falls below 0.2 mg/l in the water entering the distribution system, the supplier of water must notify the Department as soon as possible, but no later than by the end of the next business day. The supplier of water also must notify the Department by the end of the next business day whether or not the residual was restored to at least 0.2 mg/l within four hours.

Date(s) Residual < 0.2 mg/l	Duration of Low Level (hrs.)	Date Reported to DEP	Date(s) Residual < 0.2 mg/l	Duration of Low Level (hrs.)	Date Reported to DEP

2. **Distribution System Disinfectant Residual Criteria** - Residual Disinfectant concentration (V) cannot be undetectable in greater than 5% of samples in a month, for any two consecutive months. SWTR TT Violation (Tier 2). Chlorine residuals must be measured at the same time and location as total coliform *distribution routine & repeat* samples. If no residual is detected, an HPC sample must be collected and analyzed.

Total # of HPC samples taken during month:	61	# HPC sites > 500/mL:	0	# HPC sites ≤ 500/mL:	61
70	= a	# of sites where Cl ₂ residual measurements were made, whether a residual was detected or not (should be the same # of sites reported on your monthly DBPR Cl ₂ residual report)			
0	= b	# of sites HPC samples were analyzed <i>instead</i> of Cl ₂ residual measurements			
0	= c	# of sites where no Cl ₂ residual was detected and no HPC sample was analyzed			
0	= d	# of sites where no Cl ₂ residual was detected and HPC > 500 CFU/mL			
0	= e	# of sites where no Cl ₂ residual measurement was made and HPC > 500 CFU/mL			

Water in the distribution system with a heterotrophic bacteria concentration (HPC) less than or equal to 500/mL, is deemed to have a detectable disinfectant residual for purposes of determining compliance with this requirement. When analyzed, report HPC results on your monthly DEP Bacteriological Report.

V = $\frac{c + d + e}{a + b} \times 100$	This Month % V =	0	Previous Month % V =	0	Is V > 5% for 2 months? <input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
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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: 3/7/24 **Title:** Plant Operator

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.



Massachusetts Department of Environmental Protection - Drinking Water Program
CT DETERMINATION FOR FILTERED SYSTEMS

SWTR

I. PWS INFORMATION:

PWS ID#: 4244001 PWS Name: RANDOLPH BROOK/JUNIOR WATER PWS Town: RANDOLPH
 Treatment Facility Name: RANDOLPH WATER PLANT Reporting Period: Month: MARCH Year: 2024
 Disinfectant: CHLORINE GAS/FEEDER EFFLUENT Sequence of Disinfectant Application: 1st 2nd 3rd 4th 5th 6th

II. DAILY REPORTING: All measurements taken during peak hourly flow.

Day	Peak Hourly Flow (gpm) / Peak Hourly Flow (l/min)	Disinfectant Concentration C (mg/L) / Disinfectant Concentration ³ (C x T)	Disinfectant Contact Time ⁴ (min) / Disinfectant Contact Time ⁴ (min)	CT Calc (=C x T) / CT Calc (=C x T)	pH ^{5,6}	Water Temp ⁶ (°C) / Water Temp ⁶ (°C)	CT ⁷ 99.9CT ⁷ 99.9	Inactivation Ratio ⁸ (CT calc / CT 99.9) / Inactivation Ratio ⁸ (CT calc / CT 99.9)	Inactivation Ratio ⁹ <1.0 / Inactivation Ratio ⁹ <1.0
1	2400	2.09	50	104.5	7	5	28	3.7	<input type="checkbox"/> Yes <input type="checkbox"/> No
2	2400	2.3	50	115	7	5	27	4.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
3	2400	2.22	50	111	6.9	6	26	4.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
4	2400	2.16	50	108	6.9	6	26	4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
5	2400	2.23	50	111.5	7	6	27	4.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
6	2400	1.47	50	73.5	7	7	23	3.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
7	2400	1.92	50	96	7.1	7	26	3.7	<input type="checkbox"/> Yes <input type="checkbox"/> No
8	2400	1.8	50	90	7	7	25	3.8	<input type="checkbox"/> Yes <input type="checkbox"/> No
9	2400	2	50	100	7	7	25	4.0	<input type="checkbox"/> Yes <input type="checkbox"/> No
10	2400	1.92	50	96	6.9	7	24	4.0	<input type="checkbox"/> Yes <input type="checkbox"/> No
11	2400	2.1	50	105	7	7	25	4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
12	2400	2.2	50	110	7	7	25	4.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
13	2400	2.06	50	103	6.9	8	23	4.5	<input type="checkbox"/> Yes <input type="checkbox"/> No
14	2400	2.09	50	104.5	6.9	8	23	4.5	<input type="checkbox"/> Yes <input type="checkbox"/> No
15	2400	2.13	50	106.5	6.9	8	23	4.6	<input type="checkbox"/> Yes <input type="checkbox"/> No
16	2400	2.09	50	104.5	7	8	24	4.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
17	2400	2.02	50	101	6.9	9	19	5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
18	2400	2.14	50	107	7	9	20	5.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
19	2400	1.96	50	98	7.1	9	21	4.7	<input type="checkbox"/> Yes <input type="checkbox"/> No
20	2400	1.92	50	96	6.9	9	19	5.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
21	2400	2.03	50	101.5	6.9	8	23	4.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
22	2400	2.16	50	108	6.9	8	23	4.7	<input type="checkbox"/> Yes <input type="checkbox"/> No
23	2400	2.12	50	106	7	7	25	4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
24	2400	2.11	50	105.5	6.9	7	24	4.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
25	2400	2.22	50	111	7	7	25	4.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
26	2400	1.88	50	94	6.9	7	24	3.9	<input type="checkbox"/> Yes <input type="checkbox"/> No
27	2400	2.07	50	103.5	7	7	25	4.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
28	2400	1.92	50	96	7	7	25	3.8	<input type="checkbox"/> Yes <input type="checkbox"/> No
29	2400	1.95	50	97.5	7	8	24	4.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
30	2400	1.91	50	95.5	7	7	25	3.8	<input type="checkbox"/> Yes <input type="checkbox"/> No
31	2400	1.94	50	97	7	8	24	4.0	<input type="checkbox"/> Yes <input type="checkbox"/> No

Notes:
 1. Use a separate form for each disinfectant/sampling point. Enter disinfectant and sequence position, e.g. "ozone/1st" or "Cl₂/3rd". If more than one disinfectant sampling point, you must also complete SWTR Form H and calculate the cumulative inactivation ratio SUM (CT calc/CT 99.9) to determine compliance.
 2. Peak hourly flow means the highest pumpage hour during the day, not the absolute peak flow at any instant.
 3. The residual disinfectant concentration(s) ("C") of the water before or at the first customer must be measured each day during peak hourly flow.
 4. The disinfectant contact time(s) ("T") must be determined for each day during peak hourly flow. The time T used in calculating CT, is the time it takes the water, during peak hourly flow, to move between the point of disinfection application and the point at which the residual is measured.
 5. If the system uses free chlorine, the pH of the disinfected water must be measured at least once per day at each chlorine residual disinfectant sampling point during peak hourly flow.
 6. The temperature of the disinfected water must be measured at least once per day at each residual disinfectant concentration sampling point during peak hourly flow.
 7. Use Inactivation Tables at 310CMR 22.20A Tables 1.1 - 1.6, 2.1 and/or 3.1.
 8. The inactivation ratio is determined before or at the first customer during peak hourly flow and if the ratio is < 1.0, the 99.9% Giardia lamblia inactivation requirement has not been achieved. Note: Add log credits for watershed & filtration to the numerator of inactivation ratio.
 9. A "Yes" response above indicates a SWTR Treatment Technique violation (Tier 2).

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] Title: Plant Operator
 Date: 4/2/24 Phone #: _____ Email: _____
 Fax: _____

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.



Massachusetts Department of Environmental Protection - Drinking Water Program
TURBIDITY - INDIVIDUAL FILTER MONITORING
For Conventional or Direct Filtered Systems

SWTR
J

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III. DAILY REPORTING¹:

Day	Filter Number: 1		Filter Number: 2		Filter Number: 3		Filter Number: 4	
	Max Day NTU	Max after 4 Hours NTU	Max Day NTU	Max after 4 Hours NTU	Max Day NTU	Max after 4 Hours NTU	Max Day NTU	Max after 4 Hours NTU
1	0.027	-	0.192	0.028	0.041	0.032	0.058	0.042
2	0.055	0.025	0.029	0.026	0.034	0.028	0.059	0.040
3	0.027	0.023	0.035	0.028	0.301	0.038	0.040	-
4	0.047	0.023	0.025	-	0.025	-	0.164	0.042
5	0.025	-	0.035	0.028	0.036	0.026	0.060	0.050
6	0.073	0.026	0.055	0.026	0.298	0.028	0.386	0.096
7	0.064	0.029	0.159	0.029	0.045	0.029	0.046	-
8	0.051	0.029	0.029	-	0.031	-	0.064	0.045
9	0.024	-	0.279	0.026	0.047	0.047	0.056	0.055
10	0.090	0.024	0.078	0.043	0.036	0.028	0.071	0.071
11	0.053	0.024	0.048	0.026	0.114	0.079	0.075	-
12	0.055	0.024	0.026	-	0.042	-	0.081	0.075
13	0.027	-	0.056	0.027	0.144	0.087	0.055	0.041
14	0.201	0.029	0.053	0.030	0.179	0.028	0.109	0.065
15	0.064	0.029	0.245	0.029	0.038	0.028	0.053	-
16	0.040	0.029	0.029	-	0.086	-	0.098	0.042
17	0.027	-	0.194	0.027	0.278	0.113	0.073	0.071
18	0.050	0.029	0.049	0.032	0.075	0.072	0.088	0.082
19	0.070	0.036	0.052	0.036	0.183	0.050	0.089	-
20	0.041	0.034	0.036	-	0.030	-	0.094	0.091
21	0.031	-	0.048	0.040	0.189	0.029	0.088	0.064
22	0.061	0.034	0.112	0.035	0.082	0.047	0.074	0.066
23	0.062	0.034	0.054	0.034	0.079	0.036	0.049	-
24	0.043	0.031	0.033	-	0.054	-	0.107	0.049
25	0.029	-	0.063	0.030	0.089	0.089	0.081	0.049
26	0.038	0.030	0.049	0.031	0.091	0.091	0.187	0.187
27	0.046	0.036	0.051	0.032	0.265	0.070	0.168	-
28	0.144	0.031	0.039	-	0.045	-	0.331	0.171
29	0.030	-	0.170	0.043	0.093	0.084	0.111	0.111
30	0.216	0.031	0.183	0.047	0.094	0.093	0.151	0.151
31	0.044	0.032	0.064	0.043	0.114	0.108	0.088	-

1. Systems shall conduct continuous turbidity monitoring of the filter effluent for each individual filter at the filtration facility and record turbidity measurements every 15-minutes. Record the actual turbidity result at the specified interval of time. Do not average turbidity measurements. Individual filter turbidity records must be retained for 3 years and kept on file for MassDEP review.
2. Systems serving less than 10,000: If the treatment system has only one or two filters, the supplier may conduct continuous monitoring of the CFE turbidity in lieu of individual filter effluent (IFE) turbidity monitoring. If there are two filters, a continuous turbidity monitor can be installed on the combined filter effluent. If a CFE problem appears, follow-up action must then be completed on both filters.
3. Enter the highest daily 15-minute interval turbidity measurement recorded for the filter specified.
4. Enter the highest daily 15-minute interval turbidity measurement recorded at the end of the first four hours of continuous filter operation after the filter has been backwashed or otherwise taken offline.

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: 4/7/20

Title: Plant Operator

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Massachusetts Department of Environmental Protection - Drinking Water Program
TURBIDITY - INDIVIDUAL FILTER MONITORING
For Conventional or Direct Filtered Systems

SWTR
J

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III. DAILY REPORTING:

Day	Filter Number: 5		Filter Number: 6		Filter Number: 7		Filter Number: 8	
	Max Day NTU	Max after 4 Hours NTU	Max Day NTU	Max after 4 Hours NTU	Max Day NTU	Max after 4 Hours NTU	Max Day NTU	Max after 4 Hours NTU
1	0.063	0.032	0.036	0.028	0.038	0.031	0.041	-
2	0.036	0.030	0.027	-	0.031	-	0.060	0.039
3	0.028	-	0.048	0.024	0.034	0.027	0.169	0.038
4	0.213	0.029	0.090	0.024	0.100	0.028	0.078	0.049
5	0.042	0.031	0.056	0.053	0.039	0.028	0.042	-
6	0.051	0.031	0.029	-	0.030	-	0.065	0.044
7	0.033	-	0.054	0.030	0.045	0.033	0.062	0.048
8	0.054	0.035	0.051	0.051	0.196	0.034	0.057	0.049
9	0.067	0.028	0.043	0.026	0.031	0.026	0.043	-
10	0.169	0.028	0.026	-	0.027	-	0.320	0.045
11	0.029	-	0.035	0.035	0.033	0.027	0.057	0.047
12	0.058	0.030	0.091	0.089	0.151	0.029	0.061	0.050
13	0.101	0.032	0.249	0.056	0.043	0.030	0.050	-
14	0.049	0.033	0.028	-	0.031	-	0.183	0.054
15	0.034	-	0.045	0.030	0.042	0.031	0.071	0.056
16	0.055	0.033	0.043	0.032	0.092	0.030	0.062	0.055
17	0.049	0.033	0.034	0.027	0.102	0.027	0.053	-
18	0.054	0.033	0.050	-	0.032	-	0.062	0.059
19	0.038	-	0.058	0.055	0.045	0.036	0.078	0.066
20	0.097	0.038	0.083	0.075	0.058	0.034	0.071	0.063
21	0.084	0.037	0.044	0.030	0.040	0.030	0.062	-
22	0.052	0.038	0.034	-	0.033	-	0.074	0.067
23	0.037	-	0.071	0.035	0.044	0.034	0.082	0.070
24	0.049	0.034	0.383	0.032	0.037	0.031	0.079	0.067
25	0.052	0.032	0.043	0.032	0.641	0.027	0.070	-
26	0.069	0.045	0.232	-	0.028	-	0.083	0.069
27	0.031	-	0.060	0.060	0.339	0.028	0.077	0.069
28	0.064	0.033	0.041	0.041	0.066	0.032	0.072	0.069
29	0.056	0.030	0.055	0.029	0.040	0.031	0.067	-
30	0.082	0.029	0.029	-	0.031	-	0.134	0.069
31	0.031	-	0.037	0.031	0.458	0.032	0.097	0.073

1. Systems shall conduct continuous turbidity monitoring of the filter effluent for each individual filter at the filtration facility and record turbidity measurements every 15-minutes. Record the actual turbidity result at the specified interval of time. Do not average turbidity measurements. Individual filter turbidity records must be retained for 3 years and kept on file for MassDEP review.
2. Systems serving less than 10,000: If the treatment system has only one or two filters, the supplier may conduct continuous monitoring of the CFE turbidity in lieu of individual filter effluent (IFE) turbidity monitoring. If there are two filters, a continuous turbidity monitor can be installed on the combined filter effluent. If a CFE problem appears, follow-up action must then be completed on both filters.
3. Enter the highest daily 15-minute interval turbidity measurement recorded for the filter specified.
4. Enter the highest daily 15-minute interval turbidity measurement recorded at the end of the first four hours of continuous filter operation after the filter has been backwashed or otherwise taken offline.

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: 4/7/24 Title: Plant Operator

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.



DBPR TT Compliance Report

I. PWS INFORMATION:

PWS ID #: **4244001** City / Town: **RANDOLPH**
 PWS Name: **Randolph-Holbrook Joint Water** PWS Class: COM NTNC TNC

DEP LOCATION (LOC) ID#	DEP Location Name	Date Collected	Collected By
015/0300	Raw Water/Combined Filter Effluent	3/4/2024	P.Hennessy
SAMPLE NOTES			

II. COMPLIANCE CALCULATIONS:

Month (mm/yy)	# of Paired Samples	A: % Removal of TOC ¹	B: Required % Removal of TOC ²	Met Alternative Compliance Criteria	Alternative Criteria Result(s) ³ (See Below)	A + B ⁴
04/23	1	38.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
05/23	1	35.0	35.0	<input type="checkbox"/> YES <input type="checkbox"/> NO		1.0
06/23	1	35.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
07/23	1	39.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
08/23	1	33.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
09/23	1	28.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
10/23	1	28.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
11/23	1	31.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
12/23	1	39.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
01/24	1	37.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
02/24	1	37.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
03/24	1	40.0	45.0	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Twsuva	1.0
Sum of Past 12 Months:						12.0
Compliance Value (Sum of Past 12 Months/ 12):						1.0

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: 4/7/24

In accordance with 310 CMR 22.15(2), if mailing paper reports, ONE copy of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.

¹ Percent Removal: $(1 - (\text{Treated Water TOC} \div \text{Raw Water TOC})) \times 100$. If > 1 paired sample sets in any month report the average of all individual percent TOC removals (Example: % TOC Removal = (Average of Set 1 + Average of Set 2) ÷ 2).

² From table at 310 CMR 22.07E(10)(b)2.

³ As listed at 310 CMR 22.07E(10)(a)2 and 310 CMR 22.07E(10)(a)3, summarized as follows:

Alternative Compliance Criteria	Code Value	Result(s) to Report (RAA = Running Annual Average)
Source Water TOC <2.0 mg/L	SWTOC	RAA of source water TOC
Treated Water <2.0 mg/L	TWTOC	RAA of treated water TOC
Source Water TOC < 4.0 mg/L AND Alkalinity >60 mg/L (as CaCO ₃) AND TTHM/HAA5 ≤ 0.040/0.030 mg/L	COMBO	RAA of source water TOC, RAA of source water alkalinity, RAA of TTHM and HAA5
TTHM/HAA5 ≤ 0.040/0.030 mg/L AND only using chlorine	TTHM/HAA5	RAA of TTHM and HAA5
Source Water SUVA ≤ 2.0 L/mg-m	SWSUVA	RAA of treated water SUVA
Treated Water SUVA ≤ 2.0 L/mg-m	TWSUVA	RAA of treated water SUVA
Softening that lowers alkalinity to < 60 mg/L (as CaCO ₃)	SOFT60	RAA of treated water alkalinity
Softening that removes ≥ 10 mg/L (as CaCO ₃) of hardness	SOFT10	RAA of hardness (as CaCO ₃) removal

Note: All supplemental measurements and calculations used to meet the alternative criteria must be attached to this report.

⁴For any month where the system met an alternative compliance criteria a value of 1.0 may be inserted.

DEP REVIEW STATUS (Initial & Date)	Review Comments
<input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved _____	



Total Organic Carbon (TOC) Report doc rev 12/2020

I. PWS INFORMATION: Please refer to your DEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: 4244001 City / Town: RANDOLPH
PWS Name: RANDOLPH HOLBROOK WATER BOARD PWS Class: COM [x] NTNC [] TNC []

Table with columns: DEP LOCATION (LOC) ID#, DEP Location Name, Sample Information, Date Collected, Collected By. Includes rows for Great Pond WTP - Raw Water and Combined Filter Effluent.

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #: M-MA022 Primary Lab Name: Analytical Balance Subcontracted?(Y/N) Y
Analysis Lab MA Cert. #: M-RI002 Analysis Lab Name: ESS Laboratory

Table for TOC Analyzed by (check one): PWS or Lab. Samples Acidified? Yes or No. Columns: TOC Result (mg/L), Result Qualifier, MDL (mg/L), MRL (mg/L), Dilution Factor, Lab Method, Date Analyzed, Primary Lab Sample ID#, Analytical Lab or PWS Sample ID#.

Surface or GWUDI systems >= 500 persons. Monthly source (raw) water TOC sampling is required at each surface/GWUDI source to qualify for and remain on reduced THM/HAA5 monitoring. Each source must maintain a running annual average source (raw) water TOC level of <= 4.0 mg/L (calculated quarterly). TOC analysis does not require the use of a Massachusetts or EPA certified laboratory.

Table for Alkalinity Analyzed by (check one): PWS or Lab. Columns: ALKALINITY Result (mg/L as CaCO3), Result Qualifier, MDL (mg/L), MRL (mg/L), Dilution Factor, Lab Method, Date Analyzed, Primary Lab Sample ID#, Analytical Lab or PWS Sample ID#.

If using conventional filtration - Raw water alkalinity must be measured at the same time as the raw water TOC sample is collected. Alkalinity analysis does not require the use of a Massachusetts or EPA certified laboratory

Table for LAB SAMPLE COMMENTS, Result Qualifier, Result Qualifier Description. Row A: Alkalinity analyzed by primary lab.

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. Primary Certified Operator or Primary Lab Director Signature: Laurel Stoddard Date: 3/14/2024

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the

Table for DEP REVIEW STATUS (Initial & Date), Review Comments, WQTS Data Entered. Includes checkboxes for Accepted, Disapproved.



CERTIFICATE OF ANALYSIS

Jennifer Reilly
 Randolph - Holbrook Joint Water Board
 50 North Franklin Street
 Holbrook, MA 02343

Project Name: DOC SUVA
 Work Order Number: A4C0081
 Date Received: 03/04/2024

Sampled By: Paul Hennessy
 Location: Raw

Date Sampled: 3/4/24 10:00
 Matrix: Surface Water

RESULTS OF ANALYSIS

Parameter	Analytical Method	Date Analyzed	Units	Detection Limit	DW MCL/ Recommended Limit #	Result
Test Parameters				LAB-ID#: A4C0081-01		
Dissolved Organic Carbon (1)	9060	3/11/2024	mg/L	0.500	---	5.05
SUVA	4153	3/11/2024	/100 ml	N/A	---	0.0160
UV 254	5910B	3/5/2024	abs/cm	0.002	---	0.081

Sampled By: Paul Hennessy
 Location: Combined Filter Effluent

Date Sampled: 3/4/24 10:00
 Matrix: Drinking Water

RESULTS OF ANALYSIS

Parameter	Analytical Method	Date Analyzed	Units	Detection Limit	DW MCL/ Recommended Limit #	Result
Test Parameters				LAB-ID#: A4C0081-02		
Dissolved Organic Carbon (1)	9060	3/11/2024	mg/L	0.500	---	3.26
SUVA	4153	3/11/2024	/100 ml	N/A	---	0.0138
UV 254	5910B	3/5/2024	abs/cm	0.002	---	0.045

NA = Not Applicable
 ND = Not Detected
 < = Less Than
 > = Greater Than

Approved By: *Samuel Stoddard*

Work Order Narrative:

No unusual observations noted.

Subcontracted Analyses:

ESS Laboratory - Cranston, RI (M-RI002)

Dissolved Organic Carbon 5310B; UVA 254

REVIEWED
 By mgargasz at 11:33 am, Mar 13, 2024



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

C-ADD-XLSM

Reporting Period³

Month **MAR** Year **2024**

I. PWS Information - Refer to "MassDEP Chemical Addition Report Guidance and Instructions" for details.

PWS ID¹
4244001

PWS Name¹
Randolph-Halbrook Joint Water #NAME?

Town¹
Randolph #NAME?

Treatment Plant ID #²
4244001-01T

Treatment Plant Name²
Randolph Water Plant #NAME?

Plant Availability #NAME? Plant Status #NAME?

II. Chemical & Operational Information

Chemical Name⁴
POLYALUMINUM CHLORIDE

Purchased Strength⁸ **1.0000** Decimal (0.00... Percent (%)

Target Range / min¹² **14.00**

Manufacturer⁵
HOLLAND COMPANY

Purchased Density (lbs/gal)⁹ **10.30**

Target Dose¹³ **18.00**

Product Name⁶
PCH-180

Dilution Factor or Mix Ratio¹⁰ **0.33** Dilution Mix Ratio No Dilution / No Batch Mi...

Alarm Setting (low)¹⁴ **NA**

NSF Approved¹¹ **Yes**

Alarm Setting (high)¹⁴ **NA**

Date of last anti-siphon valve inspection/replacement¹⁵ **NA**

Reason for Adding Chemical⁷

COAGULATION

III. Daily Reporting

Day	Treated Water ¹⁶ <input type="radio"/> Gallons <input checked="" type="radio"/> MG	Measured Chemical Used		Calculated Chemical Used ¹⁸ (lbs)	Chemical Dosage ¹⁹ (mg/L)	Parameters Measured* Results, Units and Method ²⁰ - (G)rab or Continuous (A)nalyzer ²¹						O&M Notes/Comments ²² PWS note any equipment breakdown, off-line status, changes in purchased product or batch mixing day, measured parameters or dosages that are out of target range, etc.
		Volume ¹⁷ (gal/day)	Weight ¹⁷ (lbs/day)			a.		b.		c.		
1	2.90000	105.00		356.90	14.76	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A				
2	2.90000	161.00		547.24	22.63							
3	2.90000	151.00		513.25	21.22							
4	2.80000	107.00		363.69	15.57							
5	2.90000	116.00		394.28	16.30							
6	2.90000	115.00		390.89	16.16							
7	2.80000	100.00		339.90	14.56							
8	2.80000	110.00		373.89	16.01							
9	2.90000	165.00		560.84	23.19							
10	2.90000	140.00		475.86	19.68							
11	3.00000	160.00		543.84	21.74							
12	2.80000	135.00		458.87	19.65							
13	2.90000	116.00		394.28	16.30							
14	2.80000	108.00		367.09	15.72							
15	2.90000	112.00		380.69	15.74							
16	2.80000	141.00		479.26	20.52							
17	2.90000	162.00		550.64	22.77							
18	2.90000	120.00		407.88	16.86							
19	3.00000	120.00		407.88	16.30							
20	2.90000	125.00		424.88	17.57							
21	2.90000	154.00		523.45	21.64							
22	2.90000	123.00		418.08	17.29							
23	2.90000	106.00		360.29	14.90							
24	2.90000	166.00		564.23	23.33							
25	3.00000	160.00		543.84	21.74							
26	2.90000	180.00		611.82	25.30							
27	2.90000	170.00		577.83	23.89							
28	2.90000	150.00		509.85	21.08							
29	2.90000	150.00		509.85	21.08							
30	2.90000	170.00		577.83	23.89							
31	2.90000	155.00		526.85	21.78							
Total	89.60	4253.00	0.00			Indicate total # of days the residual was off-target for the month (from Section II) Monthly Target Summary ²³ : <input type="text"/>						

*Describe result (daily average, min/max, instantaneous reading, grab, etc.) sample location (entry-point, before/after filters, tanks, etc.) and instrumentation used (SCADA, chart recorder, test kit, bench, etc.)²⁰.

a.	
b.	
c.	

IV. PWS Authorized Person²⁴

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.

Signature²⁴

Date²⁴ **4/7/24**

Print Name **William Platt**

Title **Plant Operator**

Submit to your MassDEP Regional Office within 10 days after the reporting month.



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

C-ADD-XLSM

Reporting Period⁹

Month **MAR** Year **2024**

I. PWS Information - Refer to "MassDEP Chemical Addition Report Guidance and Instructions" for details

PWS ID¹ **4244001** PWS Name¹ **Randolph - Holbrook Joint Water** #NAME?
 Treatment Plant ID #² **4244001-01T** Treatment Plant Name² **Randolph Water Plant** #NAME?
 Town¹ **Randolph** #NAME?
 Plant Availability #NAME? Plant Status #NAME?

II. Chemical & Operational Information

Chemical Name⁴ **CHLORINE** Purchased Strength⁸ **1.0000** Decimal (0.00... Percent (%) Target Range / min¹² **0.20**
 Purchased Density (lbs/gal)⁹ **12.30** Target Dose¹³ **NA**
 Manufacturer⁵ **AXIALL, LLC** Dilution Factor or Mix Ratio¹⁰ **1.00** Dilution Mix Ratio No Dilution / No Batch Mi... Alarm Setting (low)¹⁴ **1.5**
 Product Name⁶ **CHLORINE** NSF Approved¹¹ **Yes** Alarm Setting (high)¹⁴ **3**
 Reason for Adding Chemical⁷ **DISINFECTANT** Date of last anti-siphon valve inspection/replacement¹⁵ **NA**

III. Daily Reporting

Day	Treated Water ¹⁰ <input type="radio"/> Gallons <input checked="" type="radio"/> MG	Measured Chemical Used		Calculated Chemical Used ¹⁶ (lbs)	Chemical Dosage ¹⁹ (mg/L)	Parameters Measured*, Results, Units and Method ²⁰ (Grab or Continuous (A) Analyzer ²¹)			O&M Notes/Comments ²² PWS note any equipment breakdown, off-line status, changes in purchased product or batch mixing day, measured parameters or dosages that are out of target range, etc.
		Volume ¹⁷ (gal/day)	Weight ¹⁷ (lbs/day)			a. FREE Cl DAILY MINIMUM	b. FREE Cl DAILY AVERAGE	c.	
						<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
1	2.90000		95.00	95.00	3.93	2.09	2.37		
2	2.90000		92.00	92.00	3.80	2.3	2.41		
3	2.90000		97.00	97.00	4.01	2.22	2.34		
4	2.80000		92.00	92.00	3.94	2.16	2.42		
5	2.90000		95.00	95.00	3.93	2.23	2.36		
6	2.90000		85.00	85.00	3.51	1.47	2.14		
7	2.80000		84.00	84.00	3.60	1.92	2.12		
8	2.80000		80.00	80.00	3.43	1.9	2.1		
9	2.90000		81.00	81.00	3.35	2	2.18		
10	2.90000		82.00	82.00	3.39	1.92	2.13		
11	3.00000		93.00	93.00	3.72	2.1	2.28		
12	2.80000		85.00	85.00	3.64	2.2	2.32		
13	2.90000		87.00	87.00	3.60	2.06	2.27		
14	2.80000		89.00	89.00	3.81	2.09	2.23		
15	2.90000		90.00	90.00	3.72	2.13	2.26		
16	2.80000		91.00	91.00	3.90	2.09	2.24		
17	2.90000		90.00	90.00	3.72	2.02	2.23		
18	2.90000		90.00	90.00	3.72	2.14	2.32		
19	3.00000		98.00	98.00	3.92	1.96	2.21		
20	2.90000		90.00	90.00	3.72	1.92	2.16		
21	2.90000		91.00	91.00	3.76	2.03	2.21		
22	2.90000		91.00	91.00	3.76	2.16	2.3		
23	2.90000		90.00	90.00	3.72	2.12	2.29		
24	2.90000		91.00	91.00	3.76	2.11	2.34		
25	3.00000		95.00	95.00	3.80	2.22	2.41		
26	2.90000		88.00	88.00	3.64	1.88	2.25		
27	2.90000		87.00	87.00	3.60	2.07	2.22		
28	2.90000		84.00	84.00	3.47	1.92	2.23		
29	2.90000		90.00	90.00	3.72	1.95	2.19		
30	2.90000		85.00	85.00	3.51	1.91	2.2		
31	2.90000		86.00	86.00	3.56	1.94	2.1		
Total	89.60	0.00	2764.00						

Indicate total # of days the residual was off-target for the month (from Section II) Monthly Target Summary²³:

*Describe result (daily average, min/max, instantaneous reading, grab, etc.) sample location (entry-point, before/after filters, tanks, etc.) and instrumentation used (SCADA, chart recorder, test kit, bench, etc.)²⁰:

a. **DAILY MINIMUM FREE CHLORINE, FINISHED WATER, GRAB SAMPLE, BENCH METER**
 b. **DAILY AVERAGE FREE CHLORINE, FINISHED WATER, GRAB SAMPLE, BENCH METER**
 c.

IV. PWS Authorized Person²⁴

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.

Signature²⁴ Date²⁴ **4/7/24** Print Name **William Platt** Title **Plant Operator**

Submit to your MassDEP Regional Office within 10 days after the reporting month.



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

C-ADD-XLSM

Reporting Period³

Month **MAR** Year **2024**

I. PWS Information - Refer to "MassDEP Chemical Addition Report Guidance and Instructions" for details.

PWS ID¹
4244001

PWS Name¹
Randolph-Holbrook Joint Water #NAME?

Town¹
Randolph #NAME?

Treatment Plant ID #²
4244001-01T

Treatment Plant Name²
Randolph Water Plant #NAME?

Plant Availability #NAME? Plant Status #NAME?

II. Chemical & Operational Information

Chemical Name⁴ **CALCIUM HYDROXIDE** Purchased Strength⁸ **0.8500** Decimal (0.00... Percent (%) Target Range / min¹² **NA**

Manufacturer⁵ **CARMEUSE LIME & STONE** Purchased Density (lbs/gal)⁹ **18.70** Target Dose¹³ **NA**

Product Name⁶ **HYDRATED LIME** Dilution Factor or Mix Ratio¹⁰ **1.00** Dilution Mix Ratio No Dilution / No Batch Mi... Alarm Setting (low)¹⁴ **NA**

Reason for Adding Chemical⁷ **ADJUSTMENT OF pH** NSF Approved¹¹ **Yes** Alarm Setting (high)¹⁴ **NA**

Date of last anti-siphon valve inspection/replacement¹⁵ **NA**

III. Daily Reporting

Day	Treated Water ¹⁶ <input type="radio"/> Gallons <input checked="" type="radio"/> MG	Measured Chemical Used		Calculated Chemical Used ¹⁸ (lbs)	Chemical Dosage ¹⁹ (mg/L)	Parameters Measured* Results, Units and Method ²⁰ - (G)rab or Continuous (A)nalyzer ²¹			O&M Notes/Comments ²² <small>PWS note any equipment breakdown, off-line status, changes in purchased product or batch mixing day, measured parameters or dosages that are out of target range, etc.</small>
		Volume ¹⁷ (gal/day)	Weight ¹⁷ (lbs/day)			a. FINISHED pH	b.	c.	
1	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
2	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
3	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
4	2.50000		50.00	42.50	2.04	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
5	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
6	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
7	2.50000		50.00	42.50	2.04	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
8	2.50000		50.00	42.50	2.04	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
9	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
10	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
11	2.70000		50.00	42.50	1.89	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
12	2.50000		50.00	42.50	2.04	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
13	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
14	2.50000		50.00	42.50	2.04	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
15	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
16	2.50000		50.00	42.50	2.04	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
17	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
18	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
19	2.70000		50.00	42.50	1.89	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
20	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
21	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
22	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
23	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
24	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
25	2.70000		50.00	42.50	1.89	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
26	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
27	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
28	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
29	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
30	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
31	2.60000		50.00	42.50	1.96	<input checked="" type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
Total	80.30	0.00	1550.00						

*Describe result (daily average, min/max, instantaneous reading, grab, etc.) sample location (entry-point, before/after filters, tanks, etc.) and instrumentation used (SCADA, chart recorder, test kit, bench, etc.)²⁰.

a. **GRAB SAMPLE FINISHED WATER, TEST METER**

b.

c.

IV. PWS Authorized Person²⁴

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.

Signature²⁴

Date²⁴ **4/7/24**

Print Name **William Platt**

Title **Plant Operator**

Submit to your MassDEP Regional Office within 10 days after the reporting month.



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

C-ADD-XLSM

Reporting Period³

Month **MAR** Year **2024**

I. PWS Information - Refer to "MassDEP Chemical Addition Report Guidance and Instructions" for details.

PWS ID¹

4244001

PWS Name²
Randolph-Holbrook Joint Water #NAME?

Town¹

Randolph #NAME?

Treatment Plant ID #²

4244001-01T

Treatment Plant Name²
Randolph Water Plant #NAME?

Plant Availability

#NAME?

Plant Status

#NAME?

II. Chemical & Operational Information

Chemical Name⁴

METALLIC PHOSPHATES

Purchased Strength⁸ **0.1250**

Decimal (0.00... Percent (%)

Target Range / min¹² **NA**

Purchased Density (lbs/gal)⁹ **12.03**

Target Dose¹³ **NA**

Manufacturer⁵

CARUS CORPORATION

Dilution Factor or Mix Ratio¹⁰ **1.00**

Dilution Mix Ratio No Dilution / No Batch Mi...

Alarm Setting (low)¹⁴ **NA**

Product Name⁶

CARUS 3350

NSF Approved¹¹ **Yes**

Alarm Setting (high)¹⁴ **NA**

Date of last anti-siphon valve inspection/replacement¹⁵ **NA**

Reason for Adding Chemical⁷

CORROSION INHIBITOR

III. Daily Reporting

Day	Treated Water ¹⁶ <input type="radio"/> Gallons <input checked="" type="radio"/> MG	Measured Chemical Used		Calculated Chemical Used ¹⁶ (lbs)	Chemical Dosage ¹⁸ (mg/L)	Parameters Measured*, Results, Units and Method ²⁰ - (G)rab or Continuous (A)nalyzer ²¹			O&M Notes/Comments ²² PWS note any equipment breakdown, off-line status, changes in purchased product or batch mixing day, measured parameters or dosages that are out of target range, etc.
		Volume ¹⁷ (gal/day)	Weight ¹⁷ (lbs/day)			a.	b.	c.	
1	2.60000		50.00	6.25	0.29	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	<input type="checkbox"/> G <input type="checkbox"/> A	
2	2.60000		50.00	6.25	0.29				
3	2.60000		50.00	6.25	0.29				
4	2.50000		50.00	6.25	0.30				
5	2.60000		50.00	6.25	0.29				
6	2.60000		50.00	6.25	0.29				
7	2.50000		50.00	6.25	0.30				
8	2.50000		50.00	6.25	0.30				
9	2.60000		50.00	6.25	0.29				
10	2.60000		50.00	6.25	0.29				
11	2.70000		50.00	6.25	0.28				
12	2.50000		50.00	6.25	0.30				
13	2.60000		50.00	6.25	0.29				
14	2.50000		50.00	6.25	0.30				
15	2.60000		50.00	6.25	0.29				
16	2.50000		50.00	6.25	0.30				
17	2.60000		50.00	6.25	0.29				
18	2.60000		50.00	6.25	0.29				
19	2.70000		50.00	6.25	0.28				
20	2.60000		50.00	6.25	0.29				
21	2.60000		50.00	6.25	0.29				
22	2.60000		50.00	6.25	0.29				
23	2.60000		50.00	6.25	0.29				
24	2.60000		50.00	6.25	0.29				
25	2.70000		50.00	6.25	0.28				
26	2.60000		50.00	6.25	0.29				
27	2.60000		50.00	6.25	0.29				
28	2.60000		50.00	6.25	0.29				
29	2.60000		50.00	6.25	0.29				
30	2.60000		50.00	6.25	0.29				
31	2.60000		50.00	6.25	0.29				
Total	80.30	0.00	1550.00	Indicate total # of days the residual was off-target for the month (from Section II) Monthly Target Summary ²³ : _____					

*Describe result (daily average, min/max, instantaneous reading, grab, etc.) sample location (entry-point, before/after filters, tanks, etc.) and instrumentation used (SCADA, chart recorder, test kit, bench, etc.)²⁰.

a.	
b.	
c.	

IV. PWS Authorized Person²⁴

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.

[Signature]
 Signature²⁴

4/9/24
 Date²⁴

William Platte
 Print Name

Plant Operator
 Title

Submit to your MassDEP Regional Office within 10 days after the reporting month.



Massachusetts Department of Environmental Protection - Drinking Water Program
CHLORINE/CHLORAMINES - MONTHLY REPORT

CI

I. PWS INFORMATION:

PWS ID #: **4244000** PWS Name: **RANDOLPH WATER DEPARTMENT** City/Town: **RANDOLPH** Class: COM NTNC TNC

II. ANALYTICAL INFORMATION: Refer to your MassDEP Coliform Sampling Plan and/or DEPR monitoring plan to help complete this section.
 Type Measured: Free Chlorine Total Chlorine Combined Chlorine
 Analytical Method: SM 4500-Cl: D E F G H ASTM D1253-86

Notes:

DEP Sample Type ¹	DEP Location Code # ²	DEP Approved Sample Location ¹	CHLORINE RESULT ² (mg/L)	COLLECTION AND ANALYSIS ³		COLLECTED AND ANALYZED BY:
				DATE	TIME	
RS	003	TOWER HILL SCHOOL - ADAMS STREET	1.95	3/4/24	10:00am	A. Pierre-Louis
RS	004	JFK SCHOOL - 20 HURLEY DRIVE	1.69		8:00am	
RS	005	MARTIN E. YOUNG - 30 LOU COURTNEY DRIVE	1.25		9:00am	
RS	006	COMFORT INN - 1374 NORTH MAIN STREET	9.15		11:00am	
RS	008	COMMUNITY MIDDLE SCHOOL - 225 HIGH ST	2.00		10:30am	
RS	011	MOBIL STATION - 93 MAZZEO DRIVE	1.79		9:30am	
RS	012	7 - 11 FOOD SHOP - 675 NORTH STREET	1.14		8:30am	
RS	014 AE	AXP AUTO - 317 NORTH MAIN ST	1.86		9:30am	
RS	016	OAK GROVE STANDPIPE	1.35		9:45am	
RS	017	SOUTH MAIN STREET STANDPIPE	1.26		8:45am	

¹ DEP Sample Type, Location Code#, and DEP Approved Sample Site Location must correspond to the same information on your DEP Total Coliform Sampling Plan.
² SWTR systems: H/C must be collected at distribution sites with zero chlorine residual and results reported on the DEP Bacteriological Monthly Report form and on the appropriate SWTR Form.
³ Collection and Analysis: Chlorine residual shall be measured in the field (immediately upon collection) at the same time and location in the distribution system as total coliforms are sampled. Record ND value as 0 (zero).
⁴ Sample Type: RS-Routine Distribution Sample, RO-Original Site Repeat, UR-Upstream Repeat, DR-Downstream Repeat, AR-Additional Repeat, or SS-Special Sample (as determined by DEP).
⁵ All DISTRIBUTION samples taken and analyzed shall be included in determining compliance, even if that number is greater than the minimum required. If you collect repeat coliform samples within the distribution system during the month, you must also measure for a detectable chlorine residual at the repeat sites and include these samples. DO NOT include raw water (RW) or plant tap (PT) chlorine residual samples in your calculations.

III. COMPLIANCE REPORTING: Total # of Samples Collected for Month⁵: **50** Average Chlorine Result of All Samples For Month⁵ (mg/L): **1.64**

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.

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.

Primary Certified Operator Signature and Date: *[Signature]* 4/2/24

DEP Review Status: Accepted Disapproved Review Comments:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHLORINE/CHLORAMINES - MONTHLY REPORT

CI

I. PWS INFORMATION:

PWS ID #: **4244000** PWS Name: **RANDOLPH WATER DEPARTMENT** City/Town: **RANDOLPH** Class: COM NTNC TNC

II. ANALYTICAL INFORMATION: Refer to your MassDEP Coliform Sampling Plan and/or DEPR monitoring plan to help complete this section.

Type Measured: Free Chlorine Total Chlorine Combined Chlorine Analytical Method: SM 4500-Cl: D E F G H I ASTM D1253-86

Notes:

DEP Sample Type ^{1,4}	DEP Location Code # ¹	DEP Approved Sample Location ¹	CHLORINE RESULT ² (mg/L)	COLLECTION AND ANALYSIS ³		COLLECTED AND ANALYZED BY:
				DATE	TIME	
RS	003	TOWER HILL SCHOOL - ADAMS STREET	1.84	3/11/24	10:00am	A. Pierce-Louis
RS	004	JFK SCHOOL - 20 HURLEY DRIVE	1.64		8:00am	
RS	005	MARTIN E. YOUNG - 30 LOU COURTNEY DRIVE	1.37		9:00am	
RS	006	COMFORT INN - 1374 NORTH MAIN STREET	1.83		11:00am	
RS	008	COMMUNITY MIDDLE SCHOOL - 225 HIGH ST	1.87		10:30am	
RS	011	MOBIL STATION - 93 MAZZEO DRIVE	1.72		9:30am	
RS	012	7 - 11 FOOD SHOP - 675 NORTH STREET	1.31		8:30am	
RS	014 AE	AXP AUTO - 317 NORTH MAIN ST	1.87		7:50am	
RS	016	OAK GROVE STANDPIPE	1.36		9:45am	
RS	017	SOUTH MAIN STREET STANDPIPE	1.32		8:45am	

¹ DEP Sample Type, Location Code#, and DEP Approved Sample Site Location must correspond to the same information on your DEP Total Coliform Sampling Plan.
² SWTR systems: HPC must be collected at distribution sites with zero chlorine residual and results reported on the DEP Bacteriological Monthly Report form and on the appropriate SWTR Form.
³ Collection and Analysis: Chlorine residual shall be measured in the field (immediately upon collection) at the same time and location in the distribution system as total coliforms are sampled. Record ND values as 0 (zero).
⁴ Sample Type: RS-Routine Distribution Sample, RO-Original Site Repeat, UR-Upstream Repeat, DR-Downstream Repeat, AR-Additional Repeat, or SS-Special Sample (as determined by DEP).
⁵ All DISTRIBUTION samples taken and analyzed shall be included in determining compliance, even if that number is greater than the minimum required. If you collect repeat coliform samples within the distribution system during the month, you must also measure for a detectable chlorine residual at the repeat sites and include these samples. DO NOT include raw water (RW) or plant tap (PT) chlorine residual samples in your calculations.

III. COMPLIANCE REPORTING: Total # of Samples Collected for Month⁵: **50** Average Chlorine Result of All Samples For Month⁵ (mg/L): **1.64**

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.

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.
 Primary Certified Operator Signature and Date: *[Signature]* 4/7/24

DEP Review Status: Accepted Disapproved Review Comments:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHLORINE/CHLORAMINES - MONTHLY REPORT

I. PWS INFORMATION:

PWS ID #: **4244000** PWS Name: **RANDOLPH WATER DEPARTMENT** City/Town: **RANDOLPH** Class: COM NTNC TWC

II. ANALYTICAL INFORMATION: Refer to your MassDEP Coliform Sampling Plan and/or DBPR monitoring plan to help complete this section.

Type Measured: Free Chlorine Total Chlorine Combined Chlorine Analytical Method: SM 4500-Cl: D E F G H I ASTM D1253-86

Notes:

DEP Sample Type ^{1,4}	DEP Location Code # ²	DEP Approved Sample Location ¹	CHLORINE RESULT ² (mg/L)	COLLECTION AND ANALYSIS ³		COLLECTED AND ANALYZED BY:
				DATE	TIME	
RS	003	TOWER HILL SCHOOL - ADAMS STREET	1.78	3/13/24	9:50	BS
RS	004	JFK SCHOOL - 20 HURLEY DRIVE	1.70		9:00	
RS	005	MARTINE E. YOUNG - 30 LOU COURTNEY DRIVE	1.57		8:30	
RS	006	COMFORT INN - 1374 NORTH MAIN STREET	1.95		10:20	
RS	008	COMMUNITY MIDDLE SCHOOL - 225 HIGH ST	1.82		10:10	
RS	011	MOBIL STATION - 93 MAZZEO DRIVE	1.77		9:58	
RS	012	7 - 11 FOOD SHOP - 675 NORTH STREET	1.34		8:45	
RS	014 AE	AXP AUTO - 317 NORTH MAIN ST	1.78		9:20	
RS	016	OAK GROVE STANDPIPE	1.30		1:50	
RS	017	SOUTH MAIN STREET STANDPIPE	1.11		1:10	

¹ DEP Sample Type, Location Code#, and DEP Approved Sample Site Location must correspond to the same information on your DEP Total Coliform Sampling Plan.
² SWTR systems: HFC must be collected at distribution sites with zero chlorine residual and results reported on the DEP Bacteriological Monthly Report form and on the appropriate SWTR Form.
³ Collection and Analysis: Chlorine residual shall be measured in the field (immediately upon collection) at the same time and location in the distribution system as total coliforms are sampled. Record ND values as 0 (zero).
⁴ Sample Type: RS-F routine Distribution Sample, RO-Original Site Repeat, UR-Upstream Repeat, DR-Downstream Repeat, AR-Additional Repeat, or SS-Special Sample (as determined by DEP).
⁵ All **DISTRIBUTION** samples taken and analyzed shall be included in determining compliance, even if that number is greater than the minimum required. If you collect repeat coliform samples within the distribution system during the month, you must also measure for a detectable chlorine residual at the repeat sites and include these samples. DO NOT include raw water (RW) or plant tap (PT) chlorine residual samples in your calculations.

III. COMPLIANCE REPORTING: Total # of Samples Collected for Month⁵: **50** Average Chlorine Result of All Samples For Month⁵ (mg/L): **1.64**

In accordance with 310 CMR 22.15(2), if mailing paper reports, TWQ copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.

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.

Primary Certified Operator Signature and Date:  3/13/24

DEP Review Status: Accepted Disapproved Review Comments:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHLORINE/CHLORAMINES - MONTHLY REPORT

CI

I. PWS INFORMATION:

PWS ID #: **4244000** PWS Name: **RANDOLPH WATER DEPARTMENT** City/Town: **RANDOLPH** Class: COM NTNC TNC

II. ANALYTICAL INFORMATION: Refer to your MassDEP Coliform Sampling Plan and/or DBPR monitoring plan to help complete this section.

Type Measured: Free Chlorine Total Chlorine Combined Chlorine
 Analytical Method: SM 4500-Cl: D E F G H ASTM D1253-86

Notes:

DEP Sample Type ^{1,2}	DEP Location Code # ¹	DEP Approved Sample Location ¹	CHLORINE RESULT ² (mg/L)	COLLECTION AND ANALYSIS ³ DATE	TIME	COLLECTED AND ANALYZED BY:
RS	003	TOWER HILL SCHOOL - ADAMS STREET	1.86	3-18-24	10:00AM	A. Pierre-Louis
RS	004	JFK SCHOOL - 20 HURLEY DRIVE	1.64		8:00AM	
RS	005	MARTIN E. YOUNG - 30 LOU COURTNEY DRIVE	1.58		9:00AM	
RS	006	COMFORT INN - 1374 NORTH MAIN STREET	2.05		11:00AM	
RS	008	COMMUNITY MIDDLE SCHOOL - 225 HIGH ST	1.95		10:30AM	
RS	011	MOBIL STATION - 93 MAZZEO DRIVE	1.60		9:30AM	
RS	012	7 - 11 FOOD SHOP - 675 NORTH STREET	1.31		8:30AM	
RS	014 AE	AXP AUTO - 317 NORTH MAIN ST	1.91		7:30AM	
RS	016	OAK GROVE STANDPIPE	1.34		9:45AM	
RS	017	SOUTH MAIN STREET STANDPIPE	1.33		8:45AM	

¹ DEP Sample Type, Location Code#, and DEP Approved Sample Site Location must correspond to the same information on your DEP Total Coliform Sampling Plan.
² SWTR systems: HPC must be collected at distribution sites with zero chlorine residual and results reported on the DEP Bacteriological Monthly Report form and on the appropriate SWTR Form.
³ Collection and Analysis: Chlorine residual shall be measured in the field (immediately upon collection) at the same time and location in the distribution system as total coliforms are sampled. Record ND values as 0 (zero).
 Sample Type: RS- Routine Distribution Sample, RO-Original Site Repeat, UR-Upstream Repeat, DR-Downstream Repeat, AR-Additional Repeat, or SS-Special Sample (as determined by DEP).
⁴ All DISTRIBUTION samples taken and analyzed shall be included in determining compliance, even if that number is greater than the minimum required. If you collect repeat coliform samples within the distribution system during the month, you must also measure for a detectable chlorine residual at the repeat sites and include these samples. DO NOT include raw water (RW) or plant tap (PT) chlorine residual samples in your calculations.

III. COMPLIANCE REPORTING: Total # of Samples Collected for Month⁵: **50** Average Chlorine Result of All Samples For Month⁵ (mg/L): **1.64**

In accordance with 310 CMR 22.15(2), if mailing paper reports, TMO copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.

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.

Primary Certified Operator Signature and Date: *[Signature]* 4/2/24

DEP Review Status: Accepted Disapproved Review Comments:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHLORINE/CHLORAMINES - MONTHLY REPORT

CI

I. PWS INFORMATION:

PWS ID #: **4244000** PWS Name: **RANDOLPH WATER DEPARTMENT** City/Town: **RANDOLPH** Class: COM NTNC TNC

II. ANALYTICAL INFORMATION: Refer to your MassDEP Coliform Sampling Plan and/or DBPR monitoring plan to help complete this section.

Type Measured: Free Chlorine Total Chlorine Combined Chlorine Analytical Method: SM 4500-Cl: D E F G H I ASTM D1253-86

Notes:

DEP Sample Type ^{1,2}	DEP Location Code # ³	DEP Approved Sample Location ¹	CHLORINE RESULT ⁴ (mg/L)	COLLECTION AND ANALYSIS ⁵ :		COLLECTED AND ANALYZED BY:
				DATE	TIME	
RS	003	TOWER HILL SCHOOL - ADAMS STREET	2.07	3-25-24	10:00 AM	A. Pierre-Louis
RS	004	JFK SCHOOL - 20 HURLEY DRIVE	1.93		8:00 AM	
RS	005	MARTIN E. YOUNG - 30 LOU COURTNEY DRIVE	1.14		9:00 AM	
RS	006	COMFORT INN - 1374 NORTH MAIN STREET	2.11		11:00 AM	
RS	008	COMMUNITY MIDDLE SCHOOL - 225 HIGH ST	2.14		10:30 AM	
RS	011	MOBIL STATION - 93 MAZZEO DRIVE	1.81		9:30 AM	
RS	012	7 - 11 FOOD SHOP - 675 NORTH STREET	1.15		8:30 AM	
RS	014 AE	AXP AUTO - 317 NORTH MAIN ST	2.01		7:30 AM	
RS	016	OAK GROVE STANDPIPE	1.38		9:45 AM	
RS	017	SOUTH MAIN STREET STANDPIPE	1.21		8:45 AM	

¹ DEP Sample Type, Location Code#, and DEP Approved Sample Site Location must correspond to the same information on your DEP Total Coliform Sampling Plan.

² SWTR systems: HPC must be collected at distribution sites with zero chlorine residual and results reported on the DEP Bacteriological Monthly Report form and on the appropriate SWTR Form.

³ Collection and Analysis: Chlorine residual shall be measured in the field (immediately upon collection) at the same time and location in the distribution system as total coliforms are sampled. Record ND values as 0 (zero).

⁴ Sample Type: RS-Routine Distribution Sample, RO-Original Site Repeat, UR-Upstream Repeat, DR-Downstream Repeat, AR-Additional Repeat, or SS-Special Sample (as determined by DEP).

⁵ All DISTRIBUTION samples taken and analyzed shall be included in determining compliance, even if that number is greater than the minimum required. If you collect repeat coliform samples within the distribution system during the month, you must also measure for a detectable chlorine residual at the repeat sites and include these samples. DO NOT include raw water (RW) or plant tap (PT) chlorine residual samples in your calculations.

III. COMPLIANCE REPORTING: Total # of Samples Collected for Month⁶: **50** Average Chlorine Result of All Samples For Month⁶ (mg/L): **1.64**

In accordance with 310 CMR 22.18(2), if mailing paper reports, TWC copies of this report must be received by your MassDEP Regional Office no later than 10 days after the end of the month in which the results are received or no later than 10 days after the end of the monitoring period, whichever is sooner. Please note: Electronic reporting (eDEP) deadline is the same as above.

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. Primary Certified Operator Signature and Date: *[Signature]* 4/2/24

DEP Review Status: Accepted Disapproved Review Comments:



Massachusetts Department of Environmental Protection - Drinking Water Program
CHLORINE/CHLORAMINES - MONTHLY REPORT

I. PWS INFORMATION:

PWS ID #: **4133000** PWS Name: **TOWN OF HOLBROOK** City/Town: **HOLBROOK** Class: COM NTNC TNC

II. ANALYTICAL INFORMATION: Refer to your MassDEP Coliform Sampling Plan and/or DBPR monitoring plan to help complete this section.

Type Measured: Free Chlorine Total Chlorine Combined Chlorine Analytical Method: SM 4500-C: D E F G H I ASTM D1253-86

Notes:

DEP APPROVED SAMPLE SITE INFORMATION ¹		CHLORINE RESULT ² (mg/L)	COLLECTION AND ANALYSIS:		COLLECTED AND ANALYZED BY:
DEP Location Code	DEP Approved SAMPLE LOCATION ¹		DATE	TIME	
RS 001	TOWN HALL	1.43	3/4/2024	07:30	J. Maclane
RS 005	243 PLYMOUTH ST.	1.37	3/4/2024	07:45	J. Maclane
RS 006	1 HOLBROOK CT.	1.42	3/4/2024	08:30	J. Maclane
RS 007	620 SOUTH ST.	1.53	3/4/2024	08:45	J. Maclane
RS 025	1 MILLION GAL TANK	0.83	3/4/2024	08:00	J. Maclane
RS 026	1/2 MILLION GAL TANK	0.64	3/4/2024	08:15	J. Maclane
RS 1	BOOSTER STATION	0.86	3/4/2024	09:00	J. Maclane
RS 001	TOWN HALL	1.25	3/1/2024	07:30	J. Maclane
RS 005	243 PLYMOUTH ST.	1.23	3/1/2024	07:45	J. Maclane
RS 006	1 HOLBROOK CT.	1.21	3/1/2024	08:05	J. Maclane
RS 001	TOWN HALL	1.41	3/1/2024	08:30	J. Maclane
RS 005	243 PLYMOUTH ST.	1.29	3/1/2024	07:30	J. Maclane
RS 006	1 HOLBROOK CT.	1.33	3/1/2024	07:50	J. Maclane
RS 007	620 SOUTH ST.	1.33	3/1/2024	08:10	J. Maclane
RS 025	1 MILLION GAL TANK	1.63	3/1/2024	08:30	J. Maclane
RS 026	1/2 MILLION GAL TANK	0.85	3/1/2024	08:45	J. Maclane
RS 001	TOWN HALL	1.33	3/25/2024	07:30	J. Maclane
RS 005	243 PLYMOUTH ST.	1.28	3/25/2024	07:50	J. Maclane
RS 006	1 HOLBROOK CT.	1.33	3/25/2024	08:10	J. Maclane
RS 007	620 SOUTH ST.	1.52	3/25/2024	08:30	J. Maclane

¹ DEP Sample Type, Location Code#, and DEP Approved Sample Site Location must correspond to the same information on your DEP Total Coliform Sampling Plan.
² SWTR systems: HPC must be collected at distribution sites with zero chlorine residual and results reported on the DEP Bacteriological Monthly Report form and on the appropriate SWTR Form.
³ Collection and Analysis: Chlorine residual shall be measured in the field (immediately upon collection) at the same time and location in the distribution system as total coliforms are sampled. Record ND values as 0 (zero).
⁴ Sample Type: RS-Routine Distribution Sample, RO-Original Site Repeat, UR-Upstream Repeat, DR-Downstream Repeat, AR-Additional Repeat, or SS-Special Sample (as determined by DEP).
⁵ All DISTRIBUTION samples taken and analyzed shall be included in determining compliance, even if that number is greater than the minimum required. If you collect repeat coliform samples within the distribution system during the month, you must also measure for a detectable chlorine residual at the repeat sites and include these samples. DO NOT include raw water (RW) or plant tap (PT) chlorine residual samples in your calculations.

III. COMPLIANCE REPORTING: Total # of Samples Collected for Month⁵: **20** Average Chlorine Result of All Samples For Month⁵ (mg/L): **1.25**

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.

Primary Certified Operator Signature and Date:  4/2/24

DEP Review Status: Accepted Disapproved Review Comments: