

Massachusetts Department of Environmental Protection - Drinking Water Program Stage 2 Disinfection By-Products Rule (DBPR) Quarterly Compliance Worksheet

1281000	Springfield Water & Sewer Commission	Springfield & Ludlow
PWSID:	PWS Name:	City/Town:
<input checked="" type="radio"/> COM <input type="radio"/> NTNC	Monitoring Frequency: <input checked="" type="radio"/> Quarterly <input type="radio"/> Annual or less	Monitoring Type: <input checked="" type="radio"/> Routine <input type="radio"/> Reduced
CERTIFICATION: 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.		
YEAR: 2019	QUARTER: <input type="radio"/> Q1: Jan-Mar <input type="radio"/> Q2: Apr-Jun <input checked="" type="radio"/> Q3: Jul-Sep <input type="radio"/> Q4: Oct-Dec	
Primary Operator Signature:		Date:

SYSTEMS USING CHLORINATION or CHLORAMINATION - COMPLETE TABLES A, B & C

A. CHLORINE RESIDUAL COMPLIANCE

Month	Year	# Samples	Monthly Avg (ppm)	Quarterly Avg (ppm)			
Q1	January	2019	308	0.74	0.64	Min# of Cl ₂ distribution samples required per Month: (Same location and frequency as TCR distribution sites).	120
	February	2019	279	0.67			
	March	2019	303	0.50			
Q2	April	2019	302	0.54	0.56	Minimum # of distribution samples tested in any month:	279
	May	2019	310	0.54		Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	June	2019	294	0.61			
Q3	July	2019	312	0.64	0.70	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.66
	August	2019	307	0.71			
	September	2019	302	0.74			
Q4	October	2018	312	0.68	0.74	Chlorine MRDL (ppm):	4.0
	November	2018	301	0.76		Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO
	December	2018	305	0.78			

B. TTHM COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL ¹ Q4	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/6/2019	52.7	6/3/2019	58.6	9/3/2019	69.2	12/6/2018	71.0	62.4	62.9
10082 -1400 State St Vibra/PV Hospital	3/6/2019	43.6	6/3/2019	54.1	9/3/2019	57.3	12/6/2018	52.0	53.1	51.8
10074 - 833 Page Blvd	3/6/2019	43.9	6/3/2019	51.3	9/3/2019	54.8	12/6/2018	50.0	51.2	50.0
10087- 322 Main Street	3/6/2019	43.2	6/3/2019	53.6	9/3/2019	54.9	12/6/2018	53.0	51.6	51.2
10083- North Main Fire Station	3/6/2019	42.4	6/3/2019	50.9	9/3/2019	56.7	12/6/2018	49.0	51.7	49.7
10085 - Center Street Fire Station	3/6/2019	49.4	6/3/2019	57.9	9/3/2019	66.5	12/6/2018	64.0	60.1	59.5
10086 - 1043 Sumner Ave	3/6/2019	46.6	6/3/2019	56.8	9/3/2019	62.8	12/6/2018	61.0	57.2	56.8
10075- Catalina Pump Station	3/6/2019	47.7	6/3/2019	57.4	9/3/2019	61.1	12/6/2018	67.0	56.8	58.3
MCL = 80 (ppb)		Was OEL exceeded?¹				NO	Was MCL exceeded?:			NO

C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL ¹ Q3	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/6/2019	57.3	6/3/2019	46.7	9/3/2019	49.6	12/6/2018	82.0	50.8	58.9
10082 -1400 State St Vibra/PV Hospital	3/6/2019	54.9	6/3/2019	71.0	9/3/2019	81.8	12/6/2018	93.0	72.4	75.2
10074 - 833 Page Blvd	3/6/2019	55.4	6/3/2019	68.0	9/3/2019	68.7	12/6/2018	89.0	65.2	70.3
10087- 322 Main Street	3/6/2019	64.7	6/3/2019	60.6	9/3/2019	66.9	12/6/2018	84.0	64.8	69.0
10083- North Main Fire Station	3/6/2019	68.2	6/3/2019	72.3	9/3/2019	79.2	12/6/2018	90.0	74.7	77.4
10085 - Center Street Fire Station	3/6/2019	70.0	6/3/2019	68.2	9/3/2019	76.1	12/31/2018*	68.0	72.6	70.6
10086 - 1043 Sumner Ave	3/6/2019	66.6	6/3/2019	74.2	9/3/2019	72.3	12/6/2018	80.0	71.3	73.3
10075- Catalina Pump Station	3/6/2019	67.1	6/3/2019	67.0	9/3/2019	71.7	12/31/2018*	68.0	69.4	68.4
MCL = 60 (ppb)		Was OEL exceeded?¹				YES	Was MCL exceeded?:			YES

D. IMPORTANT COMPLIANCE NOTES

- o** PWS has exceeded the OEL for TTHM and/OR HAA5 but is authorized to limit the scope of the OEL evaluation to reporting only. (Refer to letter regarding seasonal OEL exceedances)
- p** PWS has exceeded the OEL for TTHM and/OR HAA5 and must **complete and submit an Operational Evaluation Report** within 90 days of receipt of the analytical results (systems sampling quarterly only).
- o** PWS continues to qualify for reduced monitoring based on LRAAs of TTHM and HAA5 (and TOC if applicable)
- o** PWS **NO LONGER QUALIFIES** for reduced monitoring based on average concentrations of TTHM, HAA5 and/or TOC. (Refer to quarterly monitoring criteria on "Instructions" Tab)

¹OELs apply to systems sampling quarterly only.

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DEFINITIONS	
Monthly Average:	Average of all results within the current month.
Quarterly Average:	Average of three monthly averages.
Running Annual Average (RAA):	Average of 4 quarters (12 consecutive months). <i>Average of this quarter and three prior consecutive quarterly averages.</i>
Total # of Samples:	Total number of samples collected during the monitoring period.
Locational Running Annual Average (LRAA):	RAA from the same sample location. <i>Average of this quarter and three prior consecutive quarterly averages at the same location.</i>
Operational Evaluation Level (OEL):	Average of the two previous quarter's results and twice the current quarter's results

Note: Record and calculate all ND or < MDL results as the number 0 (zero).

COMMENTS:	Center St. Fire Station and Catalina Pump Station were resampled because original samples were not valid due to quality control surrogate samples outside of control limits at testing laboratory on December 31, 2018.
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