# 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 N	Name:	City/Town:			
● COM ○ NTNC Mo	nitoring Frequency:	Monitoring Type: ● Routine ○ Reduced			
CERTIFICATION: I certify under penalties law that I am the person authorized to fil	ll out Q1: Jan-Mar	○ Q2: Apr-Jun ○ Q3: Jul-Sep ○ Q4: Oct-Dec			
this form and the information contained					
herein is true, accurate and complete to	the				
best extent of my knowledge.	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)		
	January	2020	306	0.77		Min# of Cl <sub>2</sub> distribution samples required per Month:	120
Q1	February	2020	286	0.61	0.65	(Same location and frequency as TCR distribution sites).	
	March	2020	306	0.58		Minimum # of distribution samples tested in any month:	286
	April	2019	302	0.54		withinfull # of distribution samples tested in any month.	200
Q2	May	2019	310	0.54	0.56	Collected < Minimum # of distribution samples?	NO
	June	2019	294	0.61		If Yes, then Failure to Monitor Violation for period.	NO
	July	2019	312	0.64		Running Annual Average (RAA)	
Q3	August	2019	307	0.71	0.70	(Average of 4 Quarterly Averages):	0.00
	September	2019	302	0.74		Chlorine MRDL (ppm):	4.0
	October	2019	312	0.67		Chlorine where (ppin).	4.0
Q4	November	2019	297	0.67	0.73	Was Chlorine MRDL exceeded?	NO
	December	2019	314	0.86		If Yes, then MRDL violation for period.	NO

#### **B. TTHM COMPLIANCE**

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL 1	LRAA
Sample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q4	LKAA
10081- Chapin St Pump Station	3/3/2020	46.8	6/3/2019	58.6	9/3/2019	69.2	12/3/2019	76.7	59.9	62.8
10082 -1400 State St Vibra/PV Hospital	3/3/2020	38.9	6/3/2019	54.1	9/3/2019	57.3	12/3/2019	61.2	49.1	52.9
10074 - 833 Page Blvd	3/3/2020	37.8	6/3/2019	51.3	9/3/2019	54.8	12/3/2019	61.9	48.1	51.4
10087- 322 Main Street	3/3/2020	38.1	6/3/2019	53.6	9/3/2019	54.9	12/3/2019	56.9	47.0	50.9
10083- North Main Fire Station	3/3/2020	37.3	6/3/2019	50.9	9/3/2019	56.7	12/3/2019	61.2	48.1	51.5
10085 - Center Street Fire Station	3/3/2020	44.0	6/3/2019	57.9	9/3/2019	66.5	12/3/2019	68.7	55.8	59.3
10086 - 1043 Sumner Ave	3/3/2020	42.1	6/3/2019	56.8	9/3/2019	62.8	12/3/2019	64.2	52.8	56.5
10075- Catalina Pump Station	3/3/2020	42.7	6/3/2019	57.4	9/3/2019	61.1	12/3/2019	68.0	53.6	57.3
	MCL = 8	0 (ppb)		Was OEL	exceeded?1 NO		Was MCL exceede		CL exceeded?:	NO

### C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL 1	LRAA
Sample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q1	LNAA
10081- Chapin St Pump Station	3/3/2020	49.2	6/3/2019	46.7	9/3/2019	49.6	12/3/2019	56.6	51.1	50.5
10082 -1400 State St Vibra/PV Hospital	3/3/2020	45.5	6/3/2019	71.0	9/3/2019	81.8	12/3/2019	68.6	60.3	66.7
10074 - 833 Page Blvd	3/3/2020	42.2	6/3/2019	68.0	9/3/2019	68.7	12/3/2019	70.0	55.8	62.2
10087- 322 Main Street	3/3/2020	42.4	6/3/2019	60.6	9/3/2019	66.9	12/3/2019	69.2	55.2	59.7
10083- North Main Fire Station	3/3/2020	42.7	6/3/2019	72.3	9/3/2019	79.2	12/3/2019	41.2	51.5	58.9
10085 - Center Street Fire Station	3/3/2020	44.1	6/3/2019	68.2	9/3/2019	76.1	12/3/2019	72.1	59.1	65.1
10086 - 1043 Sumner Ave	3/3/2020	41.9	6/3/2019	74.2	9/3/2019	72.3	12/3/2019	78.6	58.6	66.7
10075- Catalina Pump Station	3/3/2020	46.1	6/3/2019	67.0	9/3/2019	71.7	12/3/2019	77.9	60.4	65.7
	MCL = 6	0 (ppb)	Was OEL exceeded?			YES	Was MCL exceeded?:			YES

#### D. IMPORTANT COMPLIANCE NOTES

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)

<sup>1</sup>OELs apply to systems sampling quarterly only.

- PWS has exceeded the OEL for TTHM and/OR HAA5 and must <u>complete and submit an Operational Evaluation</u>

  Report within 90 days of receipt of the analytical results (systems sampling quarterly only).
- PWS continues to qualify for reduced monitoring based on LRAAs of TTHM and HAA5 (and TOC if applicable)

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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)

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). Average of this quarter and three prior				
Rulling Amual Average (RAA).	consecutive quarterly averages.				
Total # of Samples:	Total number of samples collected during the monitoring period.				
Locational Bunning Annual Average (LDAA):	RAA from the <u>same</u> sample location. Average of this quarter and three prior consecutive quarterly				
Locational Running Annual Average (LRAA):	averages at the same location.				
	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: surrogate samples outside of control limits at testing laboratory.