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

1281000 PWSID:	S PWS Name:	pringfield Water &	Sewer Commiss	ion	Springfield & Ludlow City/Town:
● COM ○ NTNC	Monitoring Frequ	iency: 🖲 Quarterly	Annual or less	Monitoring Type: 🖲 Ro	utine 🔿 Reduced 🔿 Increased
CERTIFICATION: I certify law that I am the person	authorized to fill out	YEAR: 2023	QUARTER 🕘 Q1	: Jan-Mar 🔵 Q2: Apr-Jun	Q3: Jul-Sep Q4: Oct-Dec
this form and the inform herein is true, accurate a best extent of my knowle	nd complete to the	Primary Operator Signa	iture:		Date:

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

#### A. CHLORINE RESIDUAL COMPLIANCE

	Month	Year	# Samples	Monthly Avg (ppm)
	January	2023	308	0.71
Q1	February	2023	277	0.61
	March	2023		
	April	2022	298	0.81
Q2	May	2022	302	0.75
	June	2022	315	0.69
	July	2022	307	0.75
Q3	August	2022	311	0.80
	September	2022	302	0.69
	October	2022	305	0.69
Q4	November	2022	299	0.73
	December	2022	308	0.75

0/3	Chlorine Running Annual Average (RAA): (Average of 12 Monthly Averages)
4.0	Chlorine MRDL (ppm):
	Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.

<sup>1</sup>Note that you are required to notify MassDEP within 10 days of the end of the quarter of any DBPR MCL or MRDL violation. Tier 2 (30 day) Public Notification must also be conducted for all MCL and MRDL violations.

## **B. TTHM COMPLIANCE**

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL <sup>1</sup>	LRAA
Sample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q1	LKAA
10081- Chapin St Pump Station	3/1/2023	49	6/2/2022	90	9/6/2022	89	12/1/2022	85	68	78
10082 -1400 State St Vibra/PV Hospital	3/1/2023	37	6/2/2022	83	9/6/2022	76	12/1/2022	72	56	67
10074 - 833 Page Blvd	3/1/2023	36	6/2/2022	76	9/6/2022	72	12/1/2022	72	54	64
10089- 292 Main Street	3/1/2023	37	6/2/2022	74	9/6/2022	73	12/1/2022	71	55	64
10083- North Main Fire Station	3/1/2023	35	6/2/2022	75	9/6/2022	70	12/1/2022	70	53	63
10085 - Center Street Fire Station	3/1/2023	44	6/2/2022	87	9/6/2022	87	12/1/2022	78	63	74
10086 - 1043 Sumner Ave	3/1/2023	41	6/2/2022	80	9/6/2022	78	12/1/2022	74	59	68
10075- Catalina Pump Station	3/1/2023	42	6/2/2022	87	9/6/2022	80	12/1/2022	77	60	72
	MCL = 80 (ppb)			Was OEL exceeded?				Was M	CL exceeded?1	NO

#### C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL <sup>1</sup>	LRAA
Sample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q1	LNAA
10081- Chapin St Pump Station	3/1/2023	47	6/2/2022	72	9/6/2022	55	12/1/2022	38	47	53
10082 -1400 State St Vibra/PV Hospital	3/1/2023	45	6/2/2022	77	9/6/2022	81	12/1/2022	66	59	67
10074 - 833 Page Blvd	3/1/2023	45	6/2/2022	71	9/6/2022	63	12/1/2022	65	55	61
10089- 292 Main Street	3/1/2023	46	6/2/2022	82	9/6/2022	84	12/1/2022	70	62	71
10083- North Main Fire Station	3/1/2023	45	6/2/2022	79	9/6/2022	84	12/1/2022	67	60	69
10085 - Center Street Fire Station	3/1/2023	51	6/2/2022	79	9/6/2022	70	12/1/2022	57	57	64
10086 - 1043 Sumner Ave	3/1/2023	54	6/2/2022	78	9/6/2022	85	12/1/2022	77	68	74
10075- Catalina Pump Station	3/1/2023	51	6/2/2022	88	9/6/2022	70	12/1/2022	71	61	70
	MCL = 6	0 (ppb)	Was OEL exceed		exceeded? <sup>2</sup>	YES		Was M	CL exceeded?1	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>2</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> <u>Report</u> within 90 days of receipt of the analytical results (systems sampling quarterly only).
- **D** PWS continues to qualify for reduced monitoring based on LRAAs of TTHM and HAA5 (and TOC if applicable)
- PWS <u>NO LONGER QUALIFIES</u> for reduced monitoring based on average concentrations of TTHM, HAA5 and/or TOC. (Refer to quarterly monitoring criteria on "Instructions" Tab)
- PWS has exdeeded the MCL for TTHM or HAA5 during ANNUAL monitoring and therefore will be subject to <u>INCREASED</u> monitoring (quarterly dual sample sets at each location) until further notice.

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

1281000 PWSID: Springfield Water & Sewer Commission PWS Name: Springfield & Ludlow City/Town:

# SURFACE OR GWUDI SYSTEMS >499 SEEKING OR ON REDUCED TTHM/HAA5 MONITORING - COMPLETE TABLE E

				Pla	ant 1	Pla	ant 2	Pla	ant 3	P	lant 4
Ε.		Pla	Int Name:								
		MONTH	YEAR	Monthly Avg (ppm)	Quarterly Avg (ppm)						
		January									
	Q1	February									
		March									
er)		April									
water)	Q2	May									
		June									
(raw		July									
$\widetilde{\mathbf{U}}$	Q3	August									
TOC		September									
		October									
	Q4	November									
		December									
		Running Annu (Average of last 4 quart	al Average: erly averages)								

## SYSTEMS USING OZONATION - COMPLETE TABLE F

				Plant 1	Plant 2	Plant 3	Plant 4
F.		Pla	ant Name:				
		MONTH	YEAR	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)
		January					
(L	Q1	February					
water)		March					
		April					
Jec	Q2	Мау					
(finished		June					
fin		July					
	Q3	August					
BROMATE		September					
Σ		October					
R N	Q4	November					
B		December					
	Running Annual Average: (Average of last 12 monthly averages)						
	Was Bromate MCL Exceeded? <sup>1</sup> (MCL = 0.010 ppm)						
	Qualify for Reduced Bromate Monitoring? (RAA<0.0025 ppm)						

DEFINITIONS					
Monthly Average:	Average of all results within the current month.				
Quarterly Average:	Average of three monthly averages.				
Running Annual Average (RAA):	Average of one year of consecutive compliance periods, including the current one. 4 quarters (THM/HAA5 and TOC) or 12 months (CI and Bromate).				
	Total number of samples collected during the monitoring period.				
Locational Running Annual Average (LRAA):	RAA from the <u>same</u> sample location. Average of this quarter and three prior consecutive quarterly averages at the same location.				
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: