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

1281000	S	pringfield Water &	Sewer Commiss	sion	Springfield & Ludlow
PWSID:	PWS Name:				City/Town:
● COM ○ NTNC	Monitoring Frequ	ency: Quarterly	Annual or less	Monitoring Type	Routine Reduced Increased
CERTIFICATION: I certify law that I am the person		YEAR: 2023	QUARTER: Q1	: Jan-Mar 💿 Q2: Ap	r-Jun Q3: Jul-Sep Q4: Oct-Dec
this form and the inform	ation contained				
herein is true, accurate a	nd complete to the				
best extent of my knowledge.		Primary Operator Signat	ure:		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	314	0.61
	April	2023	298	0.56
Q2	May	2023	309	0.65
	June	2023	306	0.59
	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

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

¹Note 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

Comple Leastion	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	Q2	LKAA
10081- Chapin St Pump Station	3/1/2023	49	6/5/2023	69	9/6/2022	89	12/1/2022	85	68	73
10082 -1400 State St Vibra/PV Hospital	3/1/2023	37	6/5/2023	57	9/6/2022	76	12/1/2022	72	56	61
10074 - 833 Page Blvd	3/1/2023	36	6/5/2023	53	9/6/2022	72	12/1/2022	72	54	58
10089- 292 Main Street	3/1/2023	37	6/5/2023	55	9/6/2022	73	12/1/2022	71	55	59
10083- North Main Fire Station	3/1/2023	35	6/5/2023	53	9/6/2022	70	12/1/2022	70	53	57
10085 - Center Street Fire Station	3/1/2023	44	6/5/2023	64	9/6/2022	87	12/1/2022	78	63	68
10086 - 1043 Sumner Ave	3/1/2023	41	6/5/2023	57	9/6/2022	78	12/1/2022	74	57	63
10075- Catalina Pump Station	3/1/2023	42	6/5/2023	59	9/6/2022	80	12/1/2022	77	59	65
MCL = 80 (ppb) Was OEL exceeded? ²					NO		Was M	CL exceeded?1	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	Q2	LNAA
10081- Chapin St Pump Station	3/1/2023	47	6/5/2023	39	9/6/2022	55	12/1/2022	38	41	45
10082 -1400 State St Vibra/PV Hospital	3/1/2023	45	6/5/2023	54	9/6/2022	81	12/1/2022	66	55	62
10074 - 833 Page Blvd	3/1/2023	45	6/5/2023	51	9/6/2022	63	12/1/2022	65	53	56
10089- 292 Main Street	3/1/2023	46	6/5/2023	52	9/6/2022	84	12/1/2022	70	55	63
10083- North Main Fire Station	3/1/2023	45	6/5/2023	54	9/6/2022	84	12/1/2022	67	55	63
10085 - Center Street Fire Station	3/1/2023	51	6/5/2023	55	9/6/2022	70	12/1/2022	57	55	58
10086 - 1043 Sumner Ave	3/1/2023	54	6/5/2023	54	9/6/2022	85	12/1/2022	77	60	68
10075- Catalina Pump Station	3/1/2023	51	6/5/2023	59	9/6/2022	70	12/1/2022	71	60	63
MCL = 60 (ppb) Was OEL exceeded?				exceeded?2	NO		Was Mo	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)

²OELs 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)
- 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)
- PWS has exdeeded the MCL for TTHM or HAA5 during ANNUAL monitoring and therefore will be subject to **INCREASED** monitoring (quarterly dual sample sets at each location) until further notice.

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

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

			Plant 1		Plant 2		Plant 3		Plant 4		
E.	Plant Name:										
		MONTH	YEAR	Monthly Avg (ppm)	Quarterly Avg (ppm)						
		January									
	Q1	February									
		March									
er)		April									
water)	Q2	May									
		June									
(raw		July									
	Q3	August									
T0C		September									
Ι'		October									
	Q4	November									
		December									
	Running Annual Average: (Average of last 4 quarterly averages)										

SYSTEMS USING OZONATION - COMPLETE TABLE F

				Plant 1	Plant 2	Plant 3	Plant 4
F.	Plant Name:						
		MONTH	YEAR	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)
		January					
Ē	Q1	February					
water)		March					
		April					
ed	Q2	May					
(finished		June					
Įįį		July					
	Q3	August					
BROMATE		September					
ĮΣ		October					
188	Q4	November					
8		December					
		Running Annu (Average of last 12 mor					
	Was Bromate MCL Exceeded? ¹ (MCL = 0.010 ppm)						
	Quali	fy for Reduced Bromat (RAA<0.0025 ppr	_				

	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 (Cl and Bromate).						
Total # of Samples:	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:	