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

3116000	GROVELAND WATER & SEWER	GROVELAND
PWSID: PWS Name:		City/Town:
COM O NTNC Monitoring Frequency	ency: Quarterly O Annual or less	Monitoring Type: Routine ○ Reduced ○ Increased
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		Jan-Mar ○ Q2: Apr-Jun ○ Q3: Jul-Sep ® Q4: Oct-Dec
best extent of my knowledge.	Primary Operator Signature:	Date:
SYSTEMS USING	S CHLORINATION or CHLORAMIN	ATION - COMPLETE TABLES A, B & C

A. CHLORINE RESIDUAL COMPLIANCE

	Month	Year	# Samples	Monthly Avg (ppm)
	January	2017	9	0.12
Q1	February	2017	9	0.12
	March	2017	9	0.22
	April	2017	9	0.12
Q2	May	2017	9	0.13
	June	2017	9	0,13
	July	2017	9	0.08
Q3	August	2017	8	0.09
	September	2017	9	0.09
	October	2017	9	0.07
Q4	November 2017		9	0.12
	December	2017	9	0.12

0.12	Chlorine Running Annual Average (RAA): (Average of 12 Monthly Averages)
4.0	Chlorine MRDL (ppm)
NO	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

Barrela Lanadian	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL1	LRAA
Sample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q4	LKAA
Fens Associates Salem St.				1	8/2/2017	13			13	13
Pentucket Jr. High Main St.					8/2/2017	9.5			9.5	9.5
										- I
	MCL = 8	(A)		Man OF	exceeded?*	NO		18/no 58	CL exceeded?'	NO

C. HAA5 COMPLIANCE

Sample Legation	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	LIVIA
Fens Associates Salem St.					8/2/2017	ND				
Pentucket Jr. High Main St.					8/2/2017	ND			MARKET	F-10-5
				ļ						
		ļ		├──	-					
				-	 					
·				-	 					Hite I been
	MCL = 6	(dgg) 0		Was OEL	exceeded?*	NO		Was M	CL exceeded?'	NO

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 complete and submit an Operational Evaluation
Report within 90 days of receipt of the analytical results (systems sampling quarterly only).

- 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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PWSID:	PWS Name:	City/Town:

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

				Pla	int 1	Pla	ant 2	Plant 3		Plant 4	
E.			Plant Name:								
		MONTH	YEAR	Monthly Avg (ppm)	Quarterly Avg (ppm)						
1		January								\Box	
ш	Q1	February									
ш		March								<u>i i</u>	
1	Q2	April								\square	
water)		May									!
		June									
(raw		July									
	Q3	August									
TOC		September									
ľ		October									_
	Q4	November									
		December									
	Running Annual Averages (Average of last 4 quarterly averages									117	

SYSTEMS USING OZONATION - COMPLETE TABLE F

			Г	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					
اترا	Q1	February		<u> </u>			
water)	1.5	March					
	U	April					
ē	Q2	May			=		
(finished		June					
	Q3	July					
_		August					
Z		September					
BROMATE		October					
Ж	Q4	November					
"		December					
		Running Ann (Average of last 12 more					
		Was Bromate MCL Exc (MCL = 0.010 pp.					
	Qual	ify for Reduced Bromat (RAA<0.0025 pp					

	DEFINITIONS
Monthly Average:	Average of all results within the current month.
	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 # 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

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