

Stage 2 Disinfectants and Disinfection Byproducts Rule Operational Evaluation Report For

GROUND WATER DRINKING WATER SYSTEMS VE

A. ADMINIS	SIKATIVE							
PWS No.	. Prepare			d Date				
PWS Name		Prepared By						
·				Title				
B. OPERAT	ION EVAULAT	TION LEVEL	(OEL)					
This report is submitted for the following monitoring period.								
Check One:	1st Quarter	2 nd Quarter	3 rd Quarter	4th Q	uarter	Year		
Total Trihalo	methanes Exceed	led? \[Yes \[□ No	Level		□ m	ng/L	□ ug/L
If yes, what was the sample collection date?								
 If yes, what was the amount of chloroform present in the sample result? 			Level		☐ mg/L ☐ ug/L			
Haloacetic Acids (HAA5s) Exceeded? Yes No			Level			ng/L	□ ug/L	
• If yes,	, what was the sai	mple collectio	n date?					
_	, what was the an at in the sample re		bromoacetic acid	Level		☐ n	ng/L	□ ug/L
 If yes, what was the amount of dibromoacetic acid present in the sample result? 			moacetic acid	Level		☐ mg/L ☐ ug/L		
C. HISTORY	Y							
1. In the prev	vious quarter, was	s the OEL exce	eeded?					☐ Yes ☐ No
•	•	-	eration Evaluation the previous quart	-		Section	Н.	Yes No

2. In past years, do your TTHM quarter indicated above, recalculated locational runnin 0.080 mg/L?	o Unsure						
If yes, you must provide the following information from the previous year to demonstrate that TTHMs levels drop the following quarter and normally remain in compliance.							
Month 1	Year	TTHM Level		mg/L ug/L			
Month 2	Year	TTHM Level		mg/L ug/L			
Month 2 is the followin	 Month 1 is the month of the sample collection date (from Section B) for the previous year. Month 2 is the following quarter during the previous year. If your data demonstrates a normal reduction of TTHMs to remain in compliance, then you may proceed 						
quarter indicated above, recalculated locational runnir 0.060 mg/L?	3. In past years, do your HAA5s normally exceed 0.060 mg/L during the quarter indicated above, reduce in the next quarter, and maintain the calculated locational running annual average (LRAA) value below						
Month 1	Year	TTHM Level		mg/L ug/L			
Month 2	Year	TTHM Level		mg/L ug/L			
 Month 1 is the month of the sample collection date (from Section B) for the previous year. Month 2 is the following quarter during the previous year. If your data demonstrates a normal reduction of HAA5s to remain in compliance, then you may proceed directly to section H. 							
D. SOURCE WATER							
1. Does your system have a we	ellhead protection plan	ı?		☐ Yes ☐ No			
2. Have any changes occurred e.g., changed well pumping rates, pumping times or free	☐ Yes ☐ No						
3. Have you changed/added sources? e.g., turned on emergency sources, drilled new well, etc.							
4. Have you seen changes in source water quality? e.g., changes in turbidity, pH, temp, alkalinity, hardness; new impacts from drought conditions, heavy rain, animal feed lots, agricultural practices, etc.							
5. If you answered "YES" to o	juestions above (Section	ons D.1-D.4), please expla	ain:				

6. Do you have source water temp	☐ Yes ☐ No			
 If yes, what was the water to the DBP sample collection of 			Date Measured	
 If no, please measure the terwater. 	mperature in the source		Date Measured	
7. Do you have raw water pH data	during the month of the	OEL exceedance	e?	☐ Yes ☐ No
If yes, what was the pH value DBP sample collection date			Date Measured	
If no, please measure the ph	I in the source water.		Date Measured	_
8. Do you have raw water hardnes	s data during the month	of the OEL exce	eedance?	Yes No
 If yes, what was the hardnes DBP sample collection date 			Date Measured	
 If no, please measure the ha water. 	rdness in the source		Date Measured	
9. Do you have raw water Ammon	ia data during the month	of the OEL exc	ceedance?	Yes No
If yes, what was the ammon sample collection date abov			Date Measured	
 If no, please measure the an water. 	nmonia in the source		Date Measured	
10. Do you have raw water Total COEL exceedance?	Yes No			
 If yes, what was the TOC vasample collection date above 			Date Measured	
• If no, please measure the TO	• If no, please measure the TOC in the source water. Date Measured			
E. WATER TREATMENT		l is an update fr	om prior reports, s	skip to Section H.
1. Have you changed the type of e.g., chlorine to chloramines, chem	Yes No			
2. Have you changed the amount o e.g., trying to maintain higher chlo	☐ Yes ☐ No			
3. Have you changed or added loca	Yes No			
4. Does your system provide any tr	Yes No			
5. Have you made changes to any of e.g., change any chemicals (change changing dosage of any chemical,	Yes No			
6. If you answered " <u>YES</u> " to any o	of the questions above (Se	ections E.1-E.5)	, please explain:	

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7. For the chlorine product, please answer the following:			
What is the name of manufacturer?			
• What is the name of the product?			
8. Do you have chlorine dosage data during the month of the	e OEL exceeda	nce?	Yes No
 If yes, what was the average chlorine dosage nearest to the sample collection date above? 		Date Measured	
If no, please measure the chlorine dosage.		Date Measured	
If unable to calculate the dosage, please provide the f	following inform	nation:	
Water amount pumped on TTHM/HAA5 sample of	collection date		☐ gal ☐ MG
Amount of chlorine used on TTHM/HAA5 sample of	collection date		☐ lbs ☐ gal
9. Do you have chlorine residual data at the point of entry (P OEL exceedance?	OE) during the	month of the	Yes No
• If yes, what was the POE chlorine residual nearest to the sample collection date above?		Date Measured	
If no, please measure the POE free chlorine residual.		Date Measured	
10. Does your system use chloramines (not free chlorine) for secondary disinfection			Yes No
 If yes, what was the ammonium dosage nearest to the DBP sample collection date above? 		Date Measured	
If yes and you don't know the ammonium dosage, please measure the ammonium dosage rate.		Date Measured	
• If yes, what was the POE chlorine residual nearest to the DBP sample collection date above?		Date Measured	
If no, please measure the POE total chlorine residual.		Date Measured	
11. Do you have finished water nitrate data during the mont	Yes No		
• If yes, what was the maximum nitrate level nearest to the DBP sample collection date above?		Date Measured	
• If no, what was the most recent nitrate results measured? If data is from multiple wells, provide the highest value.		Date Measured	
12. Do you have finished water (after all treatment processes data during the month of the OEL exceedance?	s) Total Organio	e Carbon (TOC)	Yes No
 If yes, what was the TOC during or closest to the sample collection date above? 		Date Measured	•
If no, please measure the finished water TOC.		Date Measured	

F. DISTRIBUTION SYSTEM If this submittal	l is an update fi	rom prior repo	orts, s	kip to Section H.		
1. Have you added additional service areas (industry or residence, adding additional pipes or annexing additional areas of service times.	☐ Yes ☐ No					
2. Have you experienced significant increases or decreases i e.g., drought restrictions, industry opening/closing, population		Yes No				
If yes, what is the primary suspected cause of water demand changes?						
3. Does your system have storage tanks in the distribution sy	ystem?			Yes No		
If yes, how many water storage tanks does your syste	em have?					
Do any storage tank(s) fill and drain from one pipe in	nto the storage t	tank?		Yes No		
• Do any above ground metal storage tanks have condensation differences along the outer wall between upper and lower portions of the storage tank in the morning? <i>Note: This could indicate inadequate water turnover in the tank.</i>	Yes No	Date Inspec	ted			
 Do you utilize tank management/operational procedu e.g., cleaning schedule, set operational levels of your tank 		etc?		Yes No		
 Has the residence time of your tank(s) increased or do i.e., are tanks being filled/drained more or less often? 	ecreased?			☐ Yes ☐ No		
 What is the longest approximate residence time in the tanks? 	Hours Days					
4. Does your system have a regular distribution flushing program?						
If yes, what was the last date that flushing operations were performed?						
 If yes, have you been changing your distribution flush 	es No					
5. Do you have chlorine residual data from near the disinfection byproduct (DBP) sample location?						
If yes, what was the chlorine residual during or			ate			
closest to the DBP sample collection date above?		Measu				
 If no, please measure the chlorine residual at the DBP sample location. 		Measu	ate			
6. Do you have water temperature data near the disinfection location?	☐ Yes ☐ No					
If yes, what was the water temperature during or			ate			
closest to the DBP sample collection date above?		Measu				
• If no, please measure the water temperature at the			ate			
DBP sample location.		Measu	rea			
7. Do you have pH level data near the disinfection byproduct (DBP) sample location?						
 If yes, what was the pH during or closest to the DBP sample collection date above? 		D Measu	oate red			
If no, please measure the pH at the DBP sample			ate			
location.		Measu				

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8. Does your system provide additional chlorine (e.g. booster chlorination) in the distribution system?						☐ Yes ☐ No
What is the chlorine residual at the nearest					<u> </u>	
location before additional chlorine is added?			mg/L	Measured		
	What is the chlorine residual at the nearest			Date		
location after additional chlorine is a			mg/L	Measured		
9. Did you have customer complaints about v	water quality	during	g the OEL ex	xceedance		□ Vaa □ No
month?	-					∐ Yes ∐ No
If yes, what was the general nature						
of the water quality complaints?						
G. CONTROL PLAN	If this submit	ttal is	an update fro	om prior repor	rts, sk	tip to Section H.
1. In terms of your source water management	• •	n to m	onitor or im	plement best		☐ Yes ☐ No
management practices in your source wat						
Does your system have a source water			-	-		Yes No
If there isn't a wellhead protection pla						Yes No
 Does your system implement any bes 	_	-	tices (BMPs	s) in your aqui	fer	☐ Yes ☐ No
recharge area to minimize impacts to						
Does your system monitor for any wa	• Does your system monitor for any water quality parameters in the source water?					Yes No
Are there any sources of pollution near						Yes No
2. Regarding your existing equipment and in		•	-			
operational adjustments to improve the quality of your drinking water for DBP						Yes No
control?						
If yes, are you planning to adjust your chemical feeds? If yes, are you planning to adjust your chemical feeds?					Yes No	
If yes, are you planning to change any chemical products? If yes, are you planning to change any chemical products?						Yes No
• If yes, are you planning to start up any existing process equipment not used during					5	Yes No
the sampling period indicated in Section A? If we are you planning to adjust your ablaring desage?						☐ Yes ☐ No
If yes, are you planning to adjust your chlorine dosage? If yes, are you planning to adjust any existing contain processes in your drinking.						I es No
• If yes, are you planning to adjust any existing aeration processes in your drinking water treatment plant?						Yes No
If yes, are you planning to make changes to your flushing program?					Yes No	
If yes, are you planning to increase your monitoring of chlorine residuals in the						☐ Yes ☐ No
distribution system?						
	If yes, are you planning to make other changes to your operations?					Yes No
If you are planning other operational of the second o	changes, plea	ase des	scribe:			

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3. In regard to upgrades for your equipment or infrastructure, do you plan to make any	Yes No
capital improvements to your system to improve water quality for DBP control?	
If yes, are you planning to replace or install new feed pumps?	Yes No
If yes, are you planning to add new chemicals to your system?	Yes No
• If yes, are you planning to add aeration to any of your storage tanks?	Yes No
 If yes, are you planning to install a new treatment process to address DBPs? 	Yes No
 If yes, are you planning to switch your disinfectant? 	Yes No
 If yes, are you planning to add new water mains to reduce dead-ends? 	Yes No
 If yes, are you planning other upgrades to your public water system? 	Yes No
disinfection byproducts (DBPs):	
H. CONTROL PLAN UPDATES	
H. CONTROL PLAN UPDATES Only fill out this section if you filled out an operational evaluation report (OER) in the previo data provided from Sections C.2 and C.3 instructed you to complete this section.	us quarter, or the
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Only fill out this section if you filled out an operational evaluation report (OER) in the previo data provided from Sections C.2 and C.3 instructed you to complete this section. 1. Does your plan only rely on natural decreasing water temperatures to bring your locational running annual average (LRAA) calculated value within compliance? 2. Are you continuing with the exact same control plan in your previous report?	☐ Yes ☐ No
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Only fill out this section if you filled out an operational evaluation report (OER) in the previo data provided from Sections C.2 and C.3 instructed you to complete this section. 1. Does your plan only rely on natural decreasing water temperatures to bring your locational running annual average (LRAA) calculated value within compliance? 2. Are you continuing with the exact same control plan in your previous report? • If yes, please provide an update on the status of accomplishing the items identified in control plan: 3. Are you planning to use other methods not identified in your previous report to lower your disinfection byproducts (DBPs)? • If yes, are these new methods going to be implemented in the source watershed?	Yes No Yes No the previous Yes No

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4. Please provide a short statement about the control plan updates and status that your system is planning or implementing to reduce disinfection byproducts (DBPs):
I certify that the information in this entire report, including any attachments, is true and accurate to the best of my knowledge.
Signature: Date:
Printed Name: License #:
Contact Email address:Contact Phone Number:
Send the completed report to Georgia EPD no later than 90 days after being notified of the analytical results that caused you to exceed the operational evaluation level using one of the following:
Mail: Environmental Protection Division Attn: Leslie Lundeen 2 Martin Luther King Jr. Drive Suite 1152 East Floyd Tower Atlanta, GA 30334

Fax: 770-342-3903 Attn: Leslie Lundeen

Email: leslie.lundeen@dnr.ga.gov with PWS ID Number and "DBP2 OER" in the subject line.