

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 Wynkoop Street DENVER, CO 80202-1129 Phone 800-227-8917 http://www.epa.gov/region08

Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR)

State of Wyoming and Region 8 Tribal Lands

Operational Evaluation Report (Rev 3)

For

SURFACE WATER DRINKING WATER SYSTEMS

A. ADMINISTRATIVE					
PWS No.		Prepared Da	ate		
PWS Name		Prepared By			
		Ti	itle		
B. OPERATI	ON EVAULATION LEVEL	(OEL)			
This report is	submitted for the following mo	onitoring period.			
Check One:	1 st Quarter 2 nd Quarter	\Box 3 rd Quarter \Box 4	4 th Quarter	Year	
Is the Total Trihalomethanes (TTHM) OEL Exceeded 0.080 mg/L (or 80 ug/L)?			ug/L		
• If yes, what was the last sample collection date?					
• If yes, result	what was the TTHM present in ?	the sample Le	evel	mg/L	ug/L
•	what was the amount of chloro nple result?	oform present in Le	evel	mg/L	ug/L
Is the Haloacetic Acids (HAA5s) OEL Exceeded 0.060 mg/L (or 60 ug/L)?		Yes No	evel	mg/L	ug/L
If yes, what was the last sample collection date?					
•	what was the HAA5 sample re t quarter	sult for the Le	evel	mg/L	ug/L
-	what was the amount of mono t in the sample result?	bromoacetic acid Le	evel	mg/L	ug/L
	what was the amount of dibror t in the sample result?	as the amount of dibromoacetic acid sample result? Level mg/L ug/L			
C. HISTORY					
1. In the previous quarter, was the OEL exceeded?					
 If yes, did your system submit an Operation Evaluation Report (OER)? If your system did submit an OER in the previous quarter, please skip to Section H. 					

	 In past years, do your TTHMs normally exceed 0.080 mg/L during the quarter indicated in Section B, reduce in the next quarter, and maintain the calculated locational running annual average (LRAA) value below 0.080 mg/L? 							
		-	-		the past year's ap	plicable quarte	ers to dem	onstrate
		HMs reduce from	•	rter to the ne				
	Month 1		Year		TTHM Level		mg/L	ug/L
	Month 2		Year		TTHM Level		mg/L	ug/L
	Month 2	2 is the following	g quarter during	the previous		-	year.	
					Ms to remain in co	omphance,		
	 then you may proceed directly to section H. In past years, do your HAA5s normally exceed 0.060 mg/L during the quarter indicated in Section B, reduce in the next quarter, and maintain the calculated locational running annual average (LRAA) value below 0.060 mg/L? 							
	• If yes, please provide the following information from the past year's applicable quarters to demonstrate that HAA5s reduce from the current quarter to the next quarter.							
	Month 1		Year		HAA5 Level] mg/L [ug/L
	Month 2		Year		HAA5 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. 5	D. SOURCE WATER If this submittal is an update from prior reports, skip to Section H.							
	. Have you changed the practices in getting your source water? e.g., changed intake rates or frequency, changed intake structure depth?							
2.	2. Have you changed/added sources?							
	. Does your system have groundwater wells or sources as well? If yes, you may also want to fill out the OER for groundwater systems.							
	. Have you seen visual changes in source water quality? e.g., turbidity, color, algae blooms, etc.				s 🗌 No			
	. Have you seen changes in source water quality measurements? e.g., changes in turbidity, pH, temp, alkalinity, hardness, increased filter changes or number of backwash cycles required.				s 🗌 No			
	Have you seen changes in the watershed that may impact the source water? e.g., drought conditions, heavy rain, animal feed lots, agricultural practices, wildfires, industrial practices, etc.							

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7.	7. If you answered " <u>YES</u> " to any of the questions above (Sections D.1-D.6), please explain:				
8.	Do you have water temperature data during the month of the	e OEL exceedance?	Yes No		
	• If yes, what was the water temperature nearest to	Date			
	the DBP sample collection date above?	Measured			
	• If no, please measure the temperature in the source	Date			
	water.	Measured			
9.	Do you have raw water pH data during the month of the OEL	exceedance?	Yes No		
	• If yes, what was the pH value nearest to the DBP	Date			
	sample collection date above?	Measured			
	• If no, please measure the pH in the source water.	Date			
		Measured			
10.	Do you have raw water turbidity data during the month of the		Yes No		
	• If yes, what was the maximum turbidity nearest to	Date			
	the DBP sample collection date above?	Measured			
	• If no, please measure the turbidity in the source	Date			
	water.	Measured			
11.	11. Do you have raw water Alkalinity data during the month of the OEL exceedance?				
	• If yes, what was the alkalinity nearest to the DBP	Date			
	sample collection date above?	Measured			
	• If no, please measure the alkalinity in the source	Date			
10	water.	Measured			
12.	12. Do you have raw water Total Organic Carbon (TOC) data during the month of the OEL exceedance?				
	• If yes, what was the TOC value nearest to the	Date			
	DBP sample collection date above?	Measured			
	• If no, please measure the TOC in the source water.	Date Measured			
F	WATER TREATMENT		kin to Section H		
E. WATER TREATMENT If this submittal is an update from prior reports, skip to Section H.					
1.	1. Have you changed the amount or type of disinfectant? e.g., chlorine to chloramines, changed disinfectant dosage, etc.				
2. Have you changed or added locations of disinfectant points along the treatment process?			Yes No		
	e.g., change any chemicals (change coagulant type or filter aid), filter material, changes in				
	application points, changing dosage of any chemical, etc.				

5. If	5. If you answered " <u>YES</u> " to any of the questions above (Sections E.1-E.4), please explain:				
6. D	o you have coagulant dosage data during the month of	the OEL exceed	lance?	Yes No	
•	If yes, what was the coagulant dosage in the		Date		
	treatment process?		Measured		
	fourient process.		Date		
•	If no, please measure coagulant dosage.		Measured		
			Weasureu		
•	What is the name of the coagulant product?				
7. D	o you have polymer data during the month of the OEL	exceedance, if a	applicable?		
•	If yes, what was the coagulant dosage in the		Date		
	treatment process?		Measured		
	*	1	Date		
•	If no, please measure coagulant dosage.		Measured		
•	What is the name of the polymer product?	<u> </u>	Wieusureu		
-	What is the nume of the polymer product.				
8. D	b you have chlorine dosage data during the month of the	ne OEL exceeda	nce?	Yes No	
•	If yes, what was the average chlorine dosage		Date		
	nearest to the DBP sample collection date above?		Measured		
			Date		
•	If no, please measure the chlorine dosage.		Measured		
9. Does your system use chloramines (not free chlorine) for secondary disinfection?					
7. D					
•	If yes, what was the ammonium dosage nearest to		Date		
	the DBP sample collection date above?		Measured		
•	If yes and you don't know the ammonium dosage,		Date		
	please measure the ammonium dosage rate.		Measured		
10. D	o you have chlorine residual data at the point of entry ((POE) during the			
	EL exceedance?	(Yes No	
•	If yes, what was the POE chlorine residual to the		Date		
	DBP sample collection date above?		Measured		
			Date		
•	If no, please measure the POE chlorine residual.		Measured		
11. D	pes your system use chloramines for secondary disinfe	ection?		Yes No	
•	If yes, what was the POE chlorine residual nearest		Date		
-	If yes, what was the i OL emorne restaur nearest				
	to the DRP sample collection date above?		Measured		
	to the DBP sample collection date above?		Measured		
•	to the DBP sample collection date above? If no, please measure the POE chlorine residual.		Date Measured		

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7.	7. Do you have the pH measured at the disinfection byproduct (DBP) sample location?				Yes No
	• If yes, what was the pH during or closest to the DBP sample collection date above?			Date Measured	·
	• If no, please measure the pH at the DBP sample location.	2		Date Measured	
8.	Does your system provide additional chlorine (e.g. distribution system?	booster chlo	orination) in the	Yes No
	• If yes, what is the chlorine residual at the nearest location <u>before</u> additional chlorine is added?		mg/L	Date Measured	
	• If yes, what is the chlorine residual at the nearest location <u>after</u> additional chlorine is added?		mg/L	Date Measured	
9.	Did you have customer complaints about water qua month?	ality during	the OEL	exceedance	Yes No
	• If yes, what was the general nature about water quality compliant?				
G.	CONTROL PLAN If this sub	mittal is an	update fr	om prior reports, s	kip to Section H.
1.	1. In terms of your source water management, do you plan to monitor or implement best management practices in your source water?			Yes No	
	Does your system have a source water management plan?			Yes No	
	• Does your system implement any best management practices (BMPs) in your watershed?			Yes No	
	• Does your system monitor for any water quality parameters in the source water?			Yes No	
2.				Yes No	
	 If yes, are you planning to adjust your chemical feeds? 			Yes No	
	• 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 the sampling period indicated in Section A?			Yes No	
	• If yes, are you planning to adjust any existing powdered activated carbon (PAC) feed rates?			Yes No	
	• If yes, are you planning to adjust your chlorine dosage?			Yes 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 you				Yes No
	• If yes, are you planning to increase your monitoring of chlorine residuals in the distribution system?			Yes No	
	• If yes, are you planning to make other changes to your operations?			Yes No	

• If you are planning other operational changes, please describe:	
3. In regard to upgrades for your equipment or infrastructure, do you plan to make any	
capital improvements to your system to improve water quality for DBP control?	Yes No
 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
• 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 to install aeration equipment to any of your storage tanks?	Yes No
• If yes, are you planning other upgrades to your public water system?	Yes No
4. Please provide a short statement about the control plan that your system will implement to	reduce
disinfection byproducts (DBPs):	

H. CONTROL PLAN UPDATES	
Only fill out this section, if you filled out an operational evaluation report (OER) in the previou data provided from Sections C.2 and C.3 instructed you to complete this section.	us quarter, or the
1. Does your plan only rely on natural decreasing water temperatures to bring your locational running annual average (LRAA) calculated value within compliance?	Yes No
2. Are you continuing with the exact same control plan in your previous report?	Yes No
 If yes, please provide an update on the status of accomplishing the items identified in the control plan: 	ne previous
3. Are you planning to use other methods not identified in your previous report to lower your disinfection byproducts (DBPs) ?	Yes No
• If yes, are these new methods going to be implemented in the source watershed? (If yes, go back to Section D Source Water above)	Yes No
 If yes, are these new methods going to be implemented in the water treatment process? (If yes, go back to fill out Section E Water Treatment above) 	Yes No
 If yes, are these new methods going to be implemented in the distribution system or the water storage tanks? (If yes, go back to fill out Section F Distribution System above) 	Yes No
4. Please provide a short-written statement about the control plan updates and status that your planning or implementing to reduce disinfection byproducts (DBPs):	system is

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 EPA Region 8 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: Stage 2 DBPR Rule Manager Mail Code: 8WD-SDA US EPA Region 8 1595 Wynkoop Street Denver, CO 80202-1129

Fax: 1-(877) 876-9101 Attn: Stage 2 DBPR Rule Manager

Email: <u>R8DWU@epa.gov</u> with PWS ID Number and "DBP2 OER" in the subject line.