STAGE 2 DISINFECTANTS AND DISINFECTION BY-PRODUCTS RULE SUMMARY

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF MUNICIPAL FACILITIES
SFN 60320 (3-19)

Public Water System (PWS) Name:	PWS Number: (ex: ND1234567) ND
Operator Name:	
Reporting Year: 2019	☐ 1st Quarter (Report by April 10th) ☐ 2nd Quarter (Report by July 10th) ☐ 3rd Quarter (Report by October 10th) ☐ 4th Quarter (Report by January 10th)

Note: Systems that do not use the State Chemistry Laboratory must attach information identifying the location, sampling date, and result for each sample. All testing must be performed by a certified laboratory.

Section 1. Bromate (only for systems using Ozone) ☐ Routine Monitoring ☐ Reduced Monitoring

Number of samples taken during quarter:	
Quarterly Average:	Running Annual Average:
MCL Exceeded? (0.010 mg/L) Yes: ☐ No: ☐	

Systems must maintain a running annual average of less than or equal to 0.0025 mg/L for finished water bromate to reduce the monitoring for bromate to once per quarter.

Section 2. TTHM and HAA5 ☐ Routine Monitoring ☐ Reduced Monitoring

TTHM Data (MCL = 0.080 mg/L)	TTHM Site	TTHM Site	TTHM Site	TTHM Site
Site ID (Ex: STG2-01):				
Sample Date:				
Quarterly Average 1 (Reporting Quarter) (mg/L):				
Quarterly Average 2 (Previous Quarter) (mg/L):				
Quarterly Average 3 (2nd Oldest) (mg/L):				
Quarterly Average 4 (3rd Oldest) (mg/L):				
Locational Running Annual Average(LRAA) (mg/L):	0.000	0.000	0.000	0.000
MCL Exceeded (Y/N)?	No	No	No	No
OEL: ((Q1Avg*2) + Q2Avg + Q3Avg) (mg/L)				
Does OEL Exceed MCL (Y/N)?				

HAA5 Data (MCL = 0.060 mg/L)	HAA5 Site	HAA5 Site	HAA5 Site	HAA5 Site
Site ID (Ex: STG2-01):				
Sample Date:				
Quarterly Average 1(Reporting Quarter) (mg/L):				
Quarterly Average 2 (Previous Quarter) (mg/L):				
Quarterly Average 3 (2nd Oldest) (mg/L):				
Quarterly Average 4 (3rd Oldest) (mg/L):				
Locational Running Annual Average(LRAA) (mg/L):	0.000	0.000	0.000	0.000
MCL Exceeded (Y/N)?:	No	No	No	No
OEL = ((Q1Avg*2) + Q2Avg + Q3Avg) (mg/L):				
Does OEL Exceed MCL (Y/N)?				

Definitions:

TTHM -	Total Trihalomethanes	Quarter 1 Average -	Quarter you are reporting for (Ex: Oct-Dec)
HAA5 -	Haloacetic Acids	Quarter 2 Average -	Quarter previous to Quarter 1 (Ex: Jul-Sep)
OEL -	Operational Evaluation Level	Quarter 3 Average -	Quarter previous to Quarter 2 (Ex: Apr-Jun)
MCL -	Maximum Contaminant Level	Quarter 4 Average -	Quarter previous to Quarter 3 (Ex: Jan-Mar)

Section 4. TOC and Alkalinity
(for surface water systems only)

☐ Routine Monitoring ☐ Reduced Monitoring

Note: Systems that do <u>not</u> use the State Chemistry Laboratory must attach information identifying the location, sampling date, and result for each sample. All testing must be performed by a certified laboratory.

Number of paired samples taken last quarter :

Month:	Ratio of Actual TOC Removed to Required TOC Removal:
Month:	Ratio of Actual TOC Removed to Required TOC Removal:
Month:	Ratio of Actual TOC Removed to Required TOC Removal:

Quarterly Average (Reporting Quarter):	0.0
Quarterly Average (Previous Quarter) :	
Quarterly Average (2nd Oldest Quarter) :	
Quarterly Average (3rd Oldest Quarter) :	
Running Annual Average:	0.0
In compliance (>= 1.00)?	Yes: ☐ No: ☑

Using Alternative Criteria? Yes: ☐ No: ☐

Mark which alternative compliance criteria are being used (results required if using to substitute for TOC Removal).
NOTE: Compliance for all criteria is based on running annual average.

☐ 1. Source water TOC < 2.0 mg/L

☐ 2. Treated water TOC < 2.0 mg/L

☐ 3. Source water TOC < 4.0 mg/L, source water alkalinity > 60 mg/L (as $CaCO_3$) and TTHM ≤ 0.040 mg/L and HAA5 ≤ 0.030 mg/L

☐ 4. TTHM ≤ 0.040 mg/L and HAA5 ≤ 0.030, and the system used only chlorine for primary and residual disinfection

☐ 5. Source water SUVA ≤ 2.0 L/mg-m

☐ 6. Treated water SUVA ≤ 2.0 L/mg-m

☐ 7. Softening that results in lowering the treated water alkalinity to less than 60 mg/L (as $CaCO_3$), measured monthly and calculated quarterly as a running annual average.

☐ 8. Softening that results in removing at least 10 mg/L of magnesium hardness (as $CaCO_3$), measured monthly and calculated quarterly as a running annual average.

Send this form along with appropriate sampling locations, dates, and results within 10 days after the end of a quarter to:

Division of Municipal Facilities
918 E. Divide Ave.
Bismarck, ND 58501-1947
Telephone Number 701-328-5295
Fax Number 701-328-5200