



**TOC and Enhanced Coagulation  
Monthly Calculations**

Month *	Compliance Value from Column F
Current	
Previous	
3 <sup>rd</sup>	
4 <sup>th</sup>	
5 <sup>th</sup>	
6 <sup>th</sup>	
7 <sup>th</sup>	
8 <sup>th</sup>	
9 <sup>th</sup>	
10 <sup>th</sup>	
11 <sup>th</sup>	
12 <sup>th</sup>	
Total	
Total divided by 12	

\* Current month compliance value, previous month value, and continuing back for previous 12 months.

Has system maintained compliance for the last 12 months? (Total divided by 12 must be greater than or equal to 1.0) Y or N

**TOC and Enhanced Coagulation  
Quarterly Calculations**

Quarter *	Compliance Value from Column F
Current	
Previous	
3 <sup>rd</sup>	
4 <sup>th</sup>	
Total	
Total divided by 4	

\* Current quarter compliance value, previous quarter value, and continuing back for previous 4 quarters.

Has system maintained compliance for the last four quarters? (Total divided by 4 must be greater than or equal to 1.0) Y or N

**Required Percentage of TOC Removal**

Source Water TOC (mg/L)	Source Water Alkalinity, mg/L as CaCO <sub>3</sub>		
	0-60 mg/L	>60-120 mg/L	>120 mg/L *
>2.0 - 4.0	35.0%	25.0%	15.0%
>4.0 - 8.0	45.0%	35.0%	25.0%
>8.0	50.0%	40.0%	30.0%

\* Systems practicing softening must meet the TOC removal requirements in this column.

**Monthly Alternative Compliance Criteria \*\***

Subrule	Criteria
.36(9)(c)(2)(i)	Treated or Source water TOC < 2.0 mg/L.
.36(9)(c)(2)(ii)	Softening System removing at least 10 mg/L of magnesium hardness.
.36(9)(c)(2)(iii)	Source water SUVA prior to treatment <= 2.0 L/mg-m.
.36(9)(c)(2)(iv)	Finished water SUVA prior to treatment <= 2.0 L/mg-m.
.36(9)(c)(2)(v)	Enhanced Softening which lowers alkalinity below 60 mg/L.

\*\* Systems meeting at least one of the conditions in paragraph (9)(c)(2)(i)-(v) may assign a monthly value of 1.0 in lieu of the value calculated in paragraph (9)(c)1.

**Annual Alternative Compliance Criteria <sup>(1)(2)</sup>**

Subrule	Criteria
.36(9)(a)(2)(i)	Running annual average of source water TOC < 2.0 mg/L.
.36(9)(a)(2)(ii)	Running annual average of treated water TOC < 2.0 mg/L calculated quarterly.
.36(9)(a)(2)(iii)	Running annual average of source water TOC < 4.0 mg/L calculated quarterly, and; Running annual average of source water alkalinity > 60 mg/L, calculated quarterly, and; Running annual average of Total Trihalomethanes <= 0.040 mg/L, or, Running annual average of Total Haloacetic Acids <= 0.030 mg/L.
.36(9)(a)(2)(iv)	Running annual average of Total Trihalomethanes <= 0.040 mg/L, and, Running annual average of Total Haloacetic Acids <= 0.030 mg/L, and, Only chlorine used as a primary disinfectant.
.36(9)(a)(2)(v)	Running annual average of source water SUVA <= 2.0 L/mg-m measured monthly and calculated quarterly.
.36(9)(a)(2)(vi)	Running annual average of treated water SUVA < 2.0 L/mg-m measured monthly and calculated quarterly.
.36(9)(a)(3)(i)	Softening treatment that result in a running annual average of treated water alkalinity < 60 mg/L (as CaCO <sub>3</sub> ) measured monthly, and calculated quarterly as an annual running average.
.36(9)(a)(3)(ii)	Softening treatment that results in removing at least 10 mg/L of magnesium hardness (as CaCO <sub>3</sub> ) measured monthly and calculated quarterly as an annual running average.

**Notes**

- (1) Systems meeting at least one of the conditions in paragraph (9)(a)(2)(i)-(iv) are not required to operate with enhanced coagulation.
- (2) Softening systems meeting one of the alternative compliance criteria in paragraph (9)(a)(3) are not required to operate with enhanced coagulation.