US Environmental Protection Agency Region 8

Drinking Water Branch

1595 Wynkoop Street

Denver, CO 80202-1129

https://www.epa.gov/region8-waterops

Disinfectants/Disinfection Byproducts Rule (DBP) Precursors - Form 4.4.1

<u>Stage 1 Total Organic Carbon Removal Ratios</u> <u>**Enhanced Coagulation and Softening Treatment Plants**</u>

PWS ID No.:				PLANT NAME:	:					
SYSTEM NAME:				PREPARED BY:	:					
PREPARED DATE:					TITLE:					
Check One (Use X):		1st Quarter		2nd Quarter		3rd Quarter 4 th Quarter				
	Current Year			**Note: Four Digits (YYYY). No						
	Report Due						-			
					Column D		Colur	nn E	Co	lumn F
	Column A	Column D	Column C							
	Column A	Column B	Column C	Source Water SUVA			Treated Water SUVA		Removal Performance Actual	
			Plant	Alkalinity	тос	(Optional)	тос	(Optional)	TOC	Compliance
Reporting Quarters	Month	Year	Operating	mg/L	mg/L	L/mg-m	mg/L	L/mg-m	%	Ratio
Reporting Quarters		Enter Year	operating	iiig/L	ilig/L	L/ mg m	iiig/L	L/ Ing In	/*	Itatio
1st Quarter	January February	Enter Year	8							
	March	Enter Year	8							
2nd Quarter	April	Enter Year								
	May	Enter Year	l							
	June	Enter Year	1							
3rd Quarter	July	Enter Year								
	August	Enter Year	l							
	September	Enter Year	1							
4th Quarter	October	Enter Year								
	November	Enter Year	17							_
	December	Enter Year								
					Rur	ning Annual Av	verage (RAA) for you	ır Compliance Re	moval Ratio	,
Form Check:										
Preparer's Notes:										
Resources:										
Table 1: Actual TOC	Removal Perfor	mance Requiren	nents		_		Table 2: Specific U	ltra Violet Absorh	ance (SUVA	A)]
		Source Wate	er Alkalinity, mg	g/L (as CaCO ₃)			SUVA Calculator			
Source Water TOC, mg/L		0-60	>60-120	>120			UV254		cm-1	
>2.0 - 4.0		35%	25%	15%	1		DOC		mg/L	
>4.0 - 8.0		45%	35%	25%			SUVA		L/mg-m	
>8.0		50%	40%	30%	1		¹	/1117	(am^{-1})	
APPROVED STEP 2 WAIVER		Not Applicable]		$SUVA(^L/mg -$	$(\frac{UV_{254}}{DOO}) = \left(\frac{UV_{254}}{DOO}\right)$	$\left(\frac{cm^{-1}}{m}\right)$	100
					-		(, <i>mg</i>	$\square DOC($	_mg/L) /	

INSTRUCTIONS FOR COMPLETING

Locational running annual average for Total Trihalomethane (TTHM) And Haloacetic Acids (HAA5s)

1. PWS ID No.: Enter the Public Water System (PWS) Identification Number assigned by USEPA.

2. System Name: Enter system legal name provided to USEPA when PWS ID assigned.

3. Prepared Date: Enter the date that the final report is prepared.

4. Plant Name: Enter the name of the treatment plant. If the plant has no name, please enter "Water Treatment Plant"

5. Prepared by: Enter the name of the person completing the form.

<u>6. Title</u>: Enter the Title/position of individual submitting the document.

7. Check One Quarter: Place an X in the space to the left of the current quarter. Only X must be entered on this line.

8. Current Year: Enter the current for the report. This should be in a four digit (YYYY) format.

9. Report Due: This will automatically display the due date. The report must be submitted to R8DWU@epa.gov with the PWS ID # and "TOCA" in the subject line.

10. Column A: This column displays the months of the year. This column will not change.

11. Column B: This column will automatically populate depending on the submittal quarter (Step 7) and the year entered in Step 8. If problems occur, repeat Steps 7-8.

12. Column C: If any water was delivered to the distribution system during any part of the month, this must indicate "Yes." Otherwise, please indicate "No."

13. Column D: Enter the Alkalinity, TOC, or optional SUVA for the source water. Source water sampling must be conducted before any treatment or chemicals are added to the water.

14. Column E: Enter the TOC or optional SUVA for the finished treated water. Finished water sampling is located at or before the combined filter effluent turbidity monitoring location.

15. Column F: This will automatically display the removal performance for each month. The RAA compliance ratio will be displayed at the bottom.

16. Form Check: In filling out the spreadsheet, the notes section will display automatic notes for the preparer to check before submitting the spreadsheet.

17. Preparer's Notes: (Optional) The prepare may add notes here for documentation purposes.

<u>18. Table 1:</u> For reference only.

19. Table 2: This is a calculator for your own use. SUVA is Specific Ultra Violet Absorbance. DOC is dissolved organic carbon. UV254 is a measure of light absorbed by organic matter.