

## Disinfectants and Disinfection Byproducts Area-Wide Optimization Program (AWOP)



## **Surface Water & GWUDI Treatment**

## **Distribution System**

Parameters	Goal	Sample Location	Assessment Timeframe	Minimum Sampling Frequency	Parameters	Goal	Sample Location	Assessment Timeframe	Minimum Sampling Frequency
TOC Performance Ratio	≥ 1.0	Raw/CFE	Quarterly	Meet System Specific Monitoring Requirements	TTHM Individual Site LRAA	≤ 70 ppb	All Stage 2 Compliance Locations	4 Quarters Locational Running Annual Average	Quarterly
TTHM Plant Tap	≤ 30 ppb	Plant Tap	4 Quarters Running Annual Average	Quarterly	HAA5 Individual Site LRAA	≤ 50 ppb	All Stage 2 Compliance Locations	4 Quarters Locational Running Annual Average	Quarterly
HAA5 Plant Tap	≤ 20 ppb	Plant Tap	4 Quarters Running Annual Average	Quarterly	TTHM Long Term	≤ 60 ppb	All Stage 2 Compliance Locations	8 Quarters Average Maximum Locational Running Annual Average	Quarterly
СТ	Meet CT requirements	Multiple Zones Possible	Daily	Daily	HAA5 Long Term	≤ 40 ppb	All Stage 2 Compliance Locations	8 Quarters Average Maximum Locational Running Annual Average	Quarterly
Parameters	nent Plan <sup>®</sup> Goal	Sample Location	Assessment Timeframe	Minimum Sampling Frequency	Free Chlorine (Free Chlorine	≥ 0.2 mg/L	Representative of the Distribution System	Daily	Daily
Free Ammonia	≤0.10 mg/L as NH₃-N	Plant Tap	Daily	Daily	Systems Only)				
Chlorine-to- Nitrogen or Chlorine-to- Ammonia Mass Ratio	4.5:1—5.0:1 or 3.7:1—4.1:1	Plant Tap	Daily	Daily	Monochlora- mine (Chloramine Systems Only)	≥1.5 mg/L* Monitor Free Ammonia	Representative of the Distribution System	Monthly	Monthly; (more may be needed)  *Monitor Nitrate if Monochloramine is <1.50 mg/L