

State Disinfectant Residual Requirements

State	Distribution System Residual (mg/L)	Details about Monitoring, Compliance Determinations, etc.	
EPA	SW – detectable residual or HPC ≤ 500	95% of samples. Detectable is not defined.	40 CFR 141.7
Alabama*	0.2 (free)	Daily monitoring. If < 0.2 more than 4 hours, TT violation & PN within 14 days. If < 0.2 for more than 24 hours, TCR samples required. If positive, acute violation & Tier 1 PN.	335-7-10-.04
Colorado*	0.2 (free)	Measured at TCR sites. Based on # samples - 95%, more than one, one.	5 CCR 1002-1
Delaware	0.3 (free)	Maintain in all locations. Daily monitoring at TCR sites. Defines detectable as 0.04.	Admin. Code
Florida*	0.2 (free), 0.6 (total)	Maintain at all times. If < min. residual, increase dose and flush until restored.	62-555-.350(
Georgia	0.2 (free)	Maintain in all locations.	391-3-5-.14(2
Illinois*	0.2 (free), 0.5 (total)	Maintain in all locations.	Title 35, Sect
Indiana	0.2 (free), 0.5 (total)	95% of samples. Defines detectable as 0.2 free or 0.5 total.	327 IAC, defin
Iowa	0.3 (free), 1.5 (total)	95% of samples. Defines detectable as 0.1.	
Kansas*	0.2 (free), 1.0 (total)	Daily monitoring. 95% of samples.	28-15-19
Kentucky*	0.2 (free), 0.5 (total)	Daily monitoring.	401 KAR 8:15
Louisiana*	0.5 (free or total)	Daily at MRT sites, at TCR sample sites, and at 25% more sites. Maintain in all locations.	Title 51, §§335
Minnesota	0.1 (free or total)	Requires a detectable residual and defines detectable as 0.1.	
Missouri	0.2 (total)	Measured at TCR sites. 95% of samples.	10 CSR 60-4.0
Nebraska	SW - 0.2 (free), 0.25 or 0.5 (total); GW – 0.1 (free)	95% of samples.	179 NAC 13 A
Nevada	0.05 mg/L (free or total)	Requires a detectable residual and defines detectable as 0.05.	
New Jersey*	0.05 mg/L (free or total)	Requires a detectable residual and defines detectable as 0.05.	
North Carolina*	0.2 (free), 1.0 (total)	Measured at TCR sites, must be detectable at MRT sites	.2002(2)
Ohio*	0.2 (free), 1.0 (total)	Measured at TCR sites. 95% of samples .	3745-81-72(E
Oklahoma	0.2 (free), 1.0 (total)	Maintain at most distant points.	252:631-3-3(
Pennsylvania*	Proposed: 0.20 mg/L (free or total)	Proposed: 95% of samples, monitor daily or weekly, 5% OOC cannot be repeated	109.710, 109
Tennessee*	0.2 (free)	95% of samples.	0400-45-01.-
Texas*	0.2 (free), 0.5 (total)	Daily or weekly monitoring based on pop. 95% of samples.	30 TAC §290.
Vermont	0.1 (free)	Requires a detectable residual and defines detectable as 0.1.	
West Virginia*	0.2 (total)	Minimum at all points.	64CSR77, 6.4

*Mandatory disinfection for CWSs.

Industry Standards:

- Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers, 2012 Edition, Recommended Standards for Waterworks (Ten States Standards):
 - Minimum free chlorine residual in a water distribution system should be 0.2 mg/L.
 - Minimum chloramine residual, where chloramination is practiced, should be 1.0 mg/L at distant points in the distribution system.
 - Higher residuals may be required depending on pH, temperature and other characteristics of the water.