Concentration indicates that Legionella growth appears:

Uncontrolled	Poorly Controlled	Well Controlled			
≥10 CFU/mL [†] in potable water	1.0–9.9 CFU/mL in potable water	Detectable to 0.9 CFU/mL in potable water	No <i>Legionella</i> detected in a	No <i>Legionella</i> detected in	No <i>Legionella</i> detected in multiple rounds of testing with methods
OR ≥100 CFU/mL in cooling towers	OR 10–99 CFU/mL in cooling towers	OR Detectable to 9 CFU/mL in cooling towers	single round of testing	multiple rounds of testing	that detect viable and non-viable bacteria of any <i>Legionella</i> species

Change in concentration over time indicates that *Legionella* growth appears:

Uncontrolled	Poorly Controlled	Well Controlled				
100-fold or greater	10-fold increase in	Legionella concentration	No Legionella	No Legionella	No Legionella detected in multiple	
increase in concentration	concentration (e.g.,	steady (e.g., 0.5 CFU/mL	detected in a	detected in	rounds of testing with methods	
(e.g., 0.05 to 5 CFU/mL)	0.05 to 0.5 CFU/mL)	for two consecutive	single round	multiple rounds	that detect viable and non-viable	
		sampling rounds)	of testing	of testing	bacteria of any Legionella species	

Extent indicates that Legionella growth appears:

Detection in multiple locations AND a common source location †Detection in a common source location that serves multiple areasDetection in a few of many tested locations within a water systemNo Legionella detected in a single round of testingNo Legionella detected in multiple rounds of testingNo Legionella detected in multiple rounds of testingNo Legionella detected in multiple rounds of testing	Uncontrolled	Poorly Controlled	Well Controlled			
many locations within a than one location within a water system	locations AND a common source location [‡] OR Detection across many locations within a	source location that serves multiple areas OR Detection in more than one location	tested locations within a	detected in a single round	detected in multiple rounds	rounds of testing with methods that detect viable and non-viable

Type^{*} of *Legionella* (species and serogroup) associated with Legionnaires' disease:

Highly Associated	Less Associated
<i>L. pneumophila</i> serogroup 1; Non-Lp1 <i>L. pneumophila</i> ; Presence of multiple different <i>Legionella</i> species or serogroups	Any non- <i>pneumophila Legionella</i> species including "blue-white" fluorescent <i>Legionella</i>



- * This figure is intended for use during routine testing of potable water and cooling towers only. Due to their ability to rapidly grow and spread *Legionella*, any detection of viable *Legionella* in a hot tub or decorative fountain should prompt a response, including a review of the water management program and corrective actions. Test results are performance indicators and are not a measure of risk of human illness. This figure is not intended for use if a building or device is associated with Legionnaires' disease (LD) cases or an outbreak.
- ^o See "Routine testing for *Legionella*" for guidance regarding suggested response activities. Comparable results may lead to different suggested response activities when other factors are considered (e.g., if there is evidence of poorly controlled growth at a healthcare facility).
- [△] Considering the type of *Legionella* identified along with other *Legionella* testing performance indicators provides a clearer picture of water system control than the results of any single indicator. For example, facility owners and operators may consider implementing immediate interventions for a healthcare facility with: A. detectable but <10 colony-forming units per milliliter (CFU/mL), B. non-Lp1 *Legionella pneumophila*, C. observed at steady concentrations, but D. detected at multiple distal locations including a central water heater.
- [†] Concentrations expressed as CFU/mL are for test results generated by traditional spread plate culture methods. If other test methods are used, consult testing lab or manufacturer instructions for appropriate interpretation.
- [‡] Common source location examples include water heaters, hot water returns, storage tanks, and cooling tower basins.
- [¥] If a facility has a history of associated LD cases, then sequencing isolates obtained during routine testing may provide performance indicators regarding outbreak strain persistence (if that strain is detected).