

Ultraviolet Disinfection

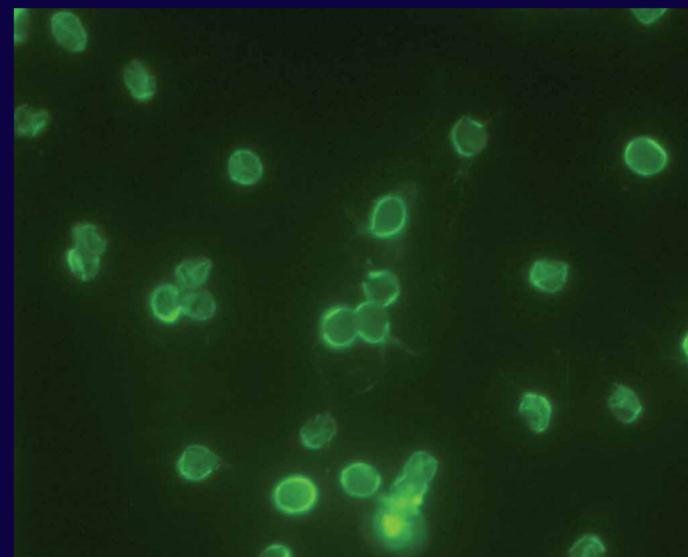
UV light has been observed for more than 200 years. However, it wasn't until 1910 that it was first used to treat water.

UV light is located in the electromagnetic spectrum between X-rays and visible light. It has the ability to sterilize microorganisms so they can't multiply or grow and cause sickness when ingested.

During the UV disinfection process, water flows through the UV unit. UV lamps, which are contained within the UV unit, emit rays of intense light which shine through the water creating a disinfection process.

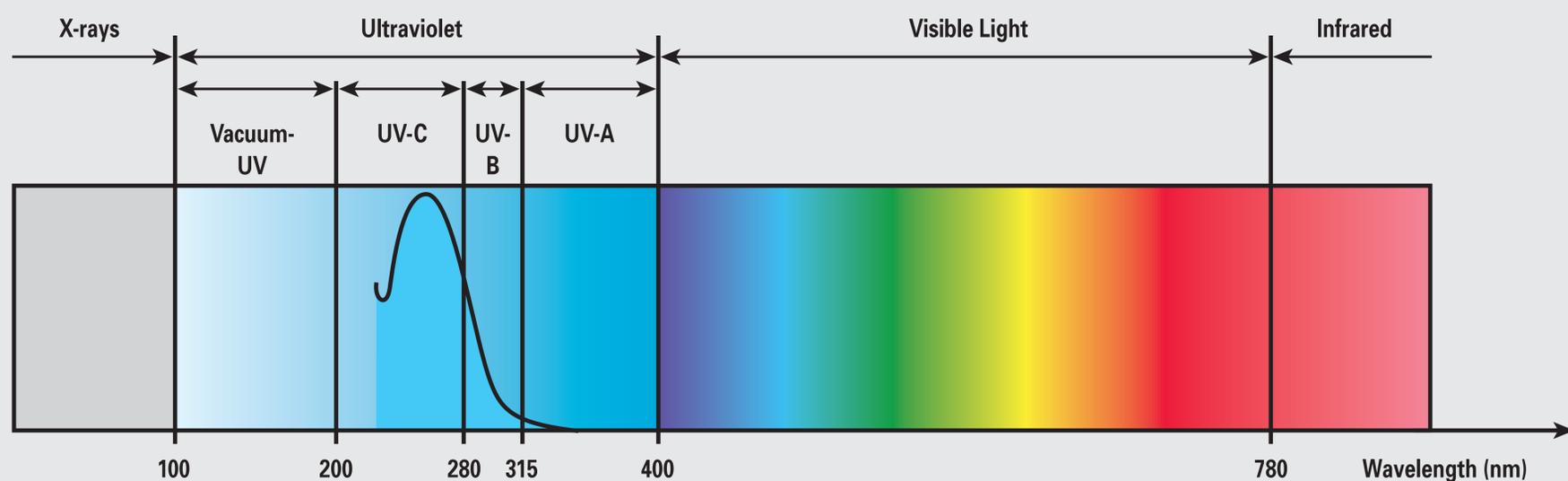
UV light occurs naturally, does not affect the taste, color, or pH of water during treatment and is 99.9% effective against chlorine resistant microorganisms such as Cryptosporidium.

Eight medium pressure Calgon Sentinel UV units are housed within GCWW's UV facility. Each unit contains five 20kW nominal-power lamps.



Microorganisms

Ultraviolet light sterilizes microorganisms such as Cryptosporidium, that are sometimes found in water.



Leading the Industry

When the UV facility opened in October 2013, GCWW became the largest water utility in North America to use UV disinfection following sand filtration and GAC adsorption.



Ultraviolet Treatment

Each Calgon Sentinel UV unit contains five 20kW nominal-power lamps.

