

City of Sheridan
Water Treatment Division
Chemical usage and purpose

Aluminum Sulfate

Primary Flocculent, used to coagulate small particles into larger ones to settle them out.

Cationic Polymer

(we use two to three separate kinds, on a seasonal basis)

Flocculation Aid, has a positive charge to assist the Alum in the coagulation/sedimentation process.

Soda Ash

Used for pH adjustment for optimizing chemical effectiveness and to minimize internal corrosion of plant and distribution piping.

Sodium Hexametaphosphate

Corrosion inhibitor to extend the life of our distribution piping.

Carbon

Used to control Taste and Odor issues in water. Nothing eliminates all taste and odor issues, but this is the industry standard and most effective. Used only as need. (Last used in 2007)

Chlorine

Used for *disinfection of the finished quality drinking water. The only chemical we add to directly address health issues. Diseases like typhoid, cholera and dysentery have been all but eliminated in the USA since the addition of chlorine nationwide.

Fluorocilic Acid – “Fluoride”

Added to our water supply at the recommended optimum level (.7 ppm) for preventing tooth decay.

*Disinfection = The *selective destruction of pathogenic organisms*.

** Sterilization = The *complete destruction of all organisms*.