



Water Treatment System

The City of Dillon Water Treatment System division operates and maintains 5 water treatment plants that deliver potable water to consumers. The total number of water taps served are 2,942 (2,472 residential taps inside/outside city limits and 470 commercial water taps inside/outside city limits). Each plant has a deep well ranging from 250- 350 feet in depth that draws ground water from the McQueen Branch Aquifer. Each deep well pumps an average of 420-730 gallons per minute. The water storage capacity is 430,000 gallons from 3 reservoirs and 850,000 gallons from 3 elevated storage tanks which provide a total storage capacity of 1,280,000 gallons. An average of 1.3 million gallons per day is pumped, treated and consumed. Two water treatment plants have filtration for the removal of iron that occurs naturally in ground water. Each water plant feeds chlorine for disinfection, fluoride to help prevent tooth decay, and phosphate to sequester naturally occurring iron in order to aid in the coating and protection of distribution lines as well as the prevention of the staining of household plumbing.

The water treatment division is responsible for producing potable water that meets the safe drinking water standards and criteria established by the Environmental Protection Agency (EPA) which is enforced by the South Carolina Department of Health and Environmental Control (SCDHEC). Florence SCDHEC conducts a yearly Water Sanitary Survey at each water plant, and they review daily, weekly and monthly water analysis records, chemical and well feed records, and reports (fluoride, bacteriological, and chlorine) that are submitted to Columbia SCDHEC on a monthly basis. All 5 water treatment plants are classified as a "C" water treatment system and must be operated seven days a week by a certified "C" level or higher licensed operator. The division maintains on-call status to provide 24-hour service.

The following parameters are analyzed to ensure that safe drinking water is provided for the City of Dillon: iron (daily-limit 0.30mg/L), phosphate (twice per week-limit 3.0-5.0mg/L), chlorine (daily-0.20-1.2mg/L), fluoride (daily-limit 0.70mg/L), Total Coliform/E. coli bacteriological analysis (11 samples collected per month during the 1st & 3rd week at homes or businesses-samples must be Total Coliform and E. Coli absence), and Lead & Copper (every three years). While the City of Dillon samples for Microbial Contaminants (Total Coliform/E. Coli), SCDHEC samples each water plant yearly for other contaminants such as Inorganic Contaminants, Herbicides & Pesticides, Organic Chemical Contaminants such as Volatile Organic Compounds (VOCs) and Synthetic Organic Compounds (SOCs), and Radioactive Contaminants. The presence of these compounds along with Lead & Copper are available in the yearly Consumer Confidence Report that is published in the Dillon Herald and posted on the City of Dillon Website. 16 employees are involved in the daily operations and maintenance of the Water Treatment System for the City of Dillon. The Water Treatment System division maintains on-call status to provide 24-hour service. The Water & Wastewater Superintendent oversees the daily operation and maintenance of the Water Treatment System.

1st & Jackson Water Treatment Plant



Water is pumped directly into the water system after treatment – Reservoir (250,000 gallons)

#9 Water Treatment Plant



Aerial View



Water Treatment Plant and Reservoir (100,000 gallons)



Elevated Storage Tank (250,000 gallons) - Aerial View



Iron Filtration for removal of iron that occurs naturally in ground water

12th & Madison Water Treatment Plant

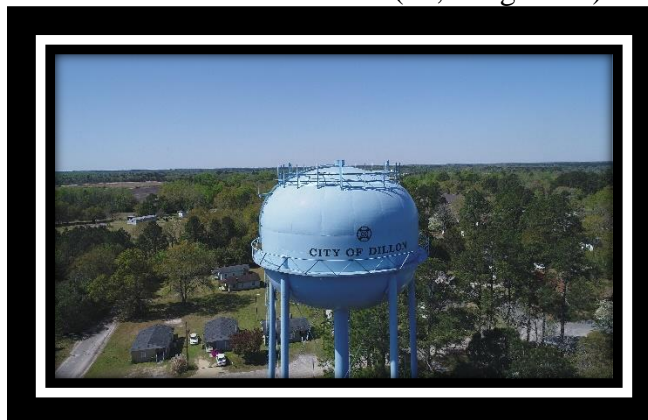


Water is pumped directly into the water system after treatment

20th & Hudson Water Treatment Plant



Water Plant and Reservoir (80,000 gallons)



Elevated Storage Tank (300,000 gallons) – Aerial View

Highway 34 Water Treatment Plant



Water Treatment Plant



Elevated Storage Tank (300,000 gallons)



Iron Filtration for removal of iron that occurs naturally in ground water