

Disinfection Basin

The flow is disinfected during the months of May through October. Disinfection kills harmful microorganisms that live in water. Liquid sodium hypochlorite (bleach) is added in small amounts



Liquid Sodium Hypochlorite Feed Pumps and Storage Tanks



Chlorine Contact Basin

Flow continues to the chlorine contact basin. The basin is a rectangular shape measuring 109 feet long and 49 feet wide with 10.4-foot side water depth. There are four sets of flow-mixing wooden baffles in the basin. The plant feeds liquid sodium hypochlorite with up to two tube type peristaltic pumps. Liquid hypochlorite is stored in five 2200-gallon tanks. The PLC controls the pump feed rate based on the flow meter at the chlorine contact effluent weir. The plant feeds at an average rate of 2 to 3 mg/l. The design detention time through the tank is 22 minutes. The detention time at average flow of 15 MGD is 36 minutes and 16 minutes at the peak sustained flow of 34 MGD. An ultrasonic flow meter measures flow going over a 21-foot cipolletti weir.