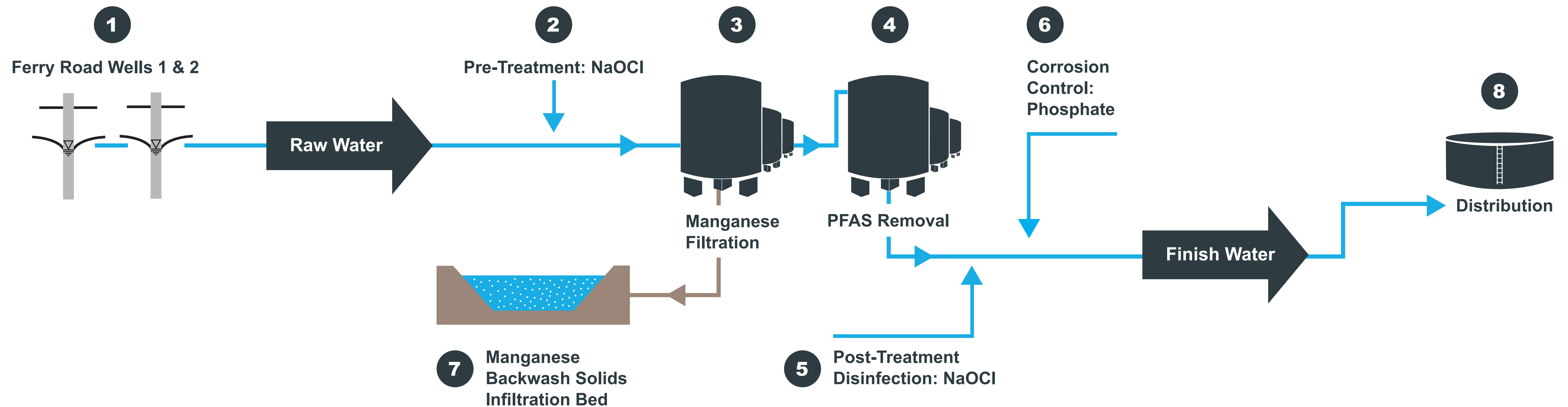


# Proposed Hallowell Water District



## 1. Raw Water

Raw water is pumped from Ferry Road Well 1 and Well 2 in Chelsea.

## 2. Pre-Treatment

The water is then pretreated with sodium hypochlorite (NaOCl) to oxidize the manganese.

## 3. Manganese Filtration

The pretreated water then flows through GreensandPlus™ pressure filtration vessels for manganese removal.

## 4. PFAS removal

Following manganese filtration water flows through PFAS pressure vessels with selective media to remove PFAS from the water.

## 5. Post-Treatment Disinfection: NaOCl

After PFAS removal the treated water is injected with sodium hypochlorite for post treatment disinfection prior to discharge to the distribution system.

## 6. Corrosion Control: Phosphate

Finally, the finished water is injected with a phosphate to optimize corrosion control before discharge to the distribution system.

## 7. Manganese Solids Infiltration Basin

Backwash waste from the manganese filters is discharged to an infiltration bed to store oxidized manganese solids.

## 8. Distribution

Treated water is pumped from the facility into the Hallowell distribution system which utilizes three water storage tanks holding 1.5 million gallons. The tanks provide water for fire protection and to maintain system pressure.