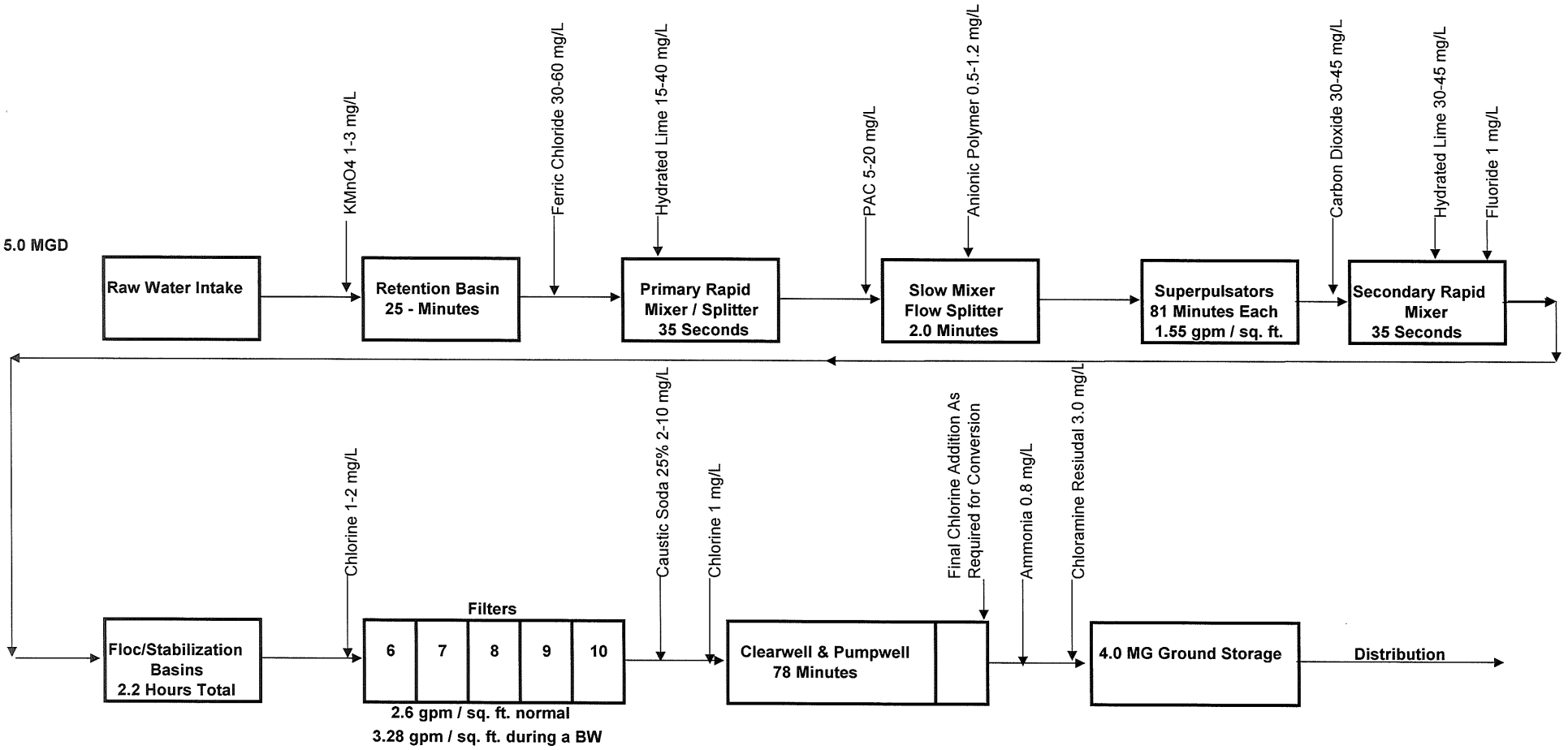
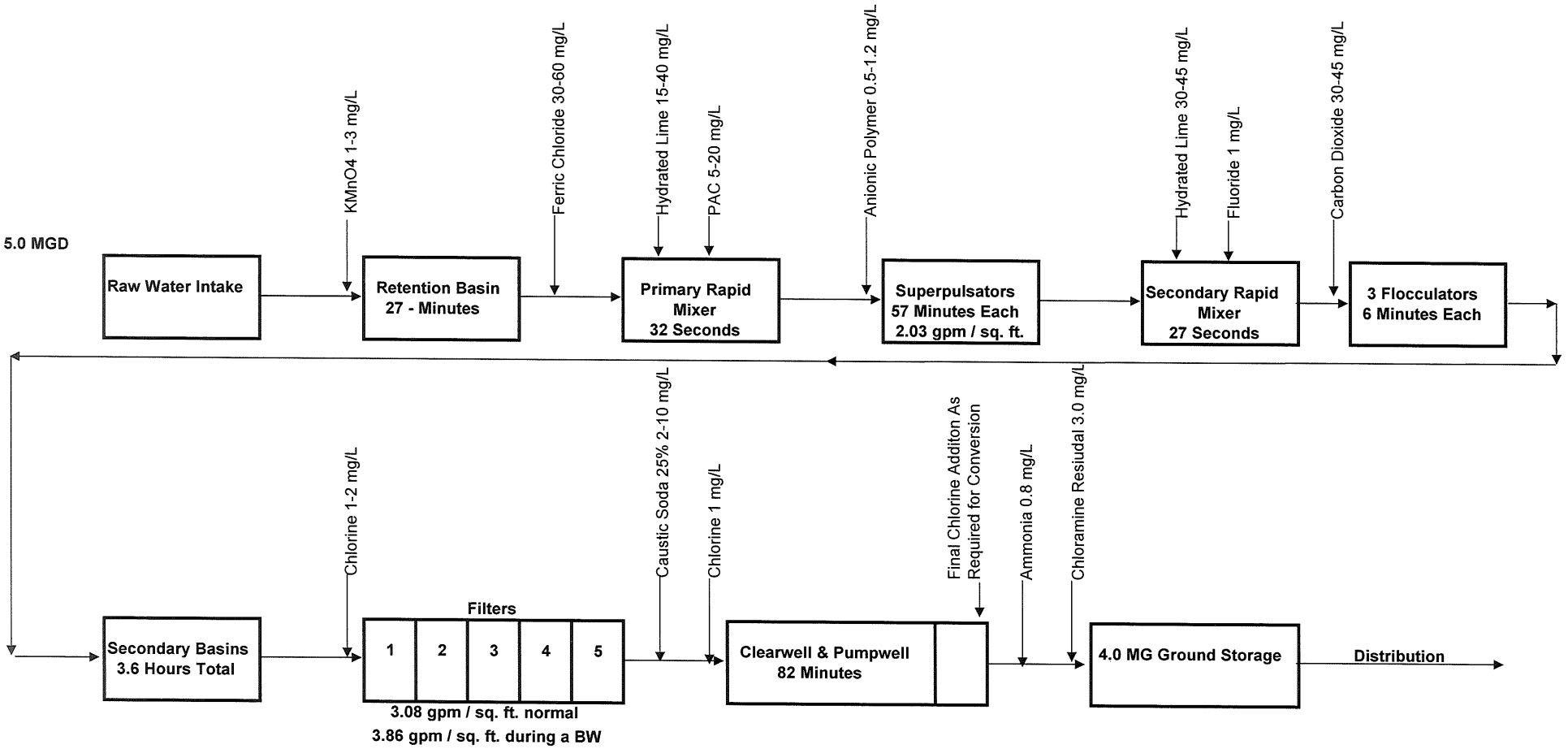
CLARENCE CANNON WHOLESALE WATER COMMISSION - NORTH WATER TREATMENT PLANT PROFILE



CLARENCE CANNON WHOLESALE WATER COMMISSION - SOUTH WATER TREATMENT PLANT PROFILE



• **Flexible.** Superpulsator is ideal for new construction or can be retrofitted into most existing basin shapes. Tube settlers can be added to most existing installations to expand capacity without constructing additional basins.

• **Integrated.** Flocculation and clarification functions are combined in one basin, eliminating the need for a separate flocculation chamber. The result? A smaller footprint that significantly reduces construction and operating costs.

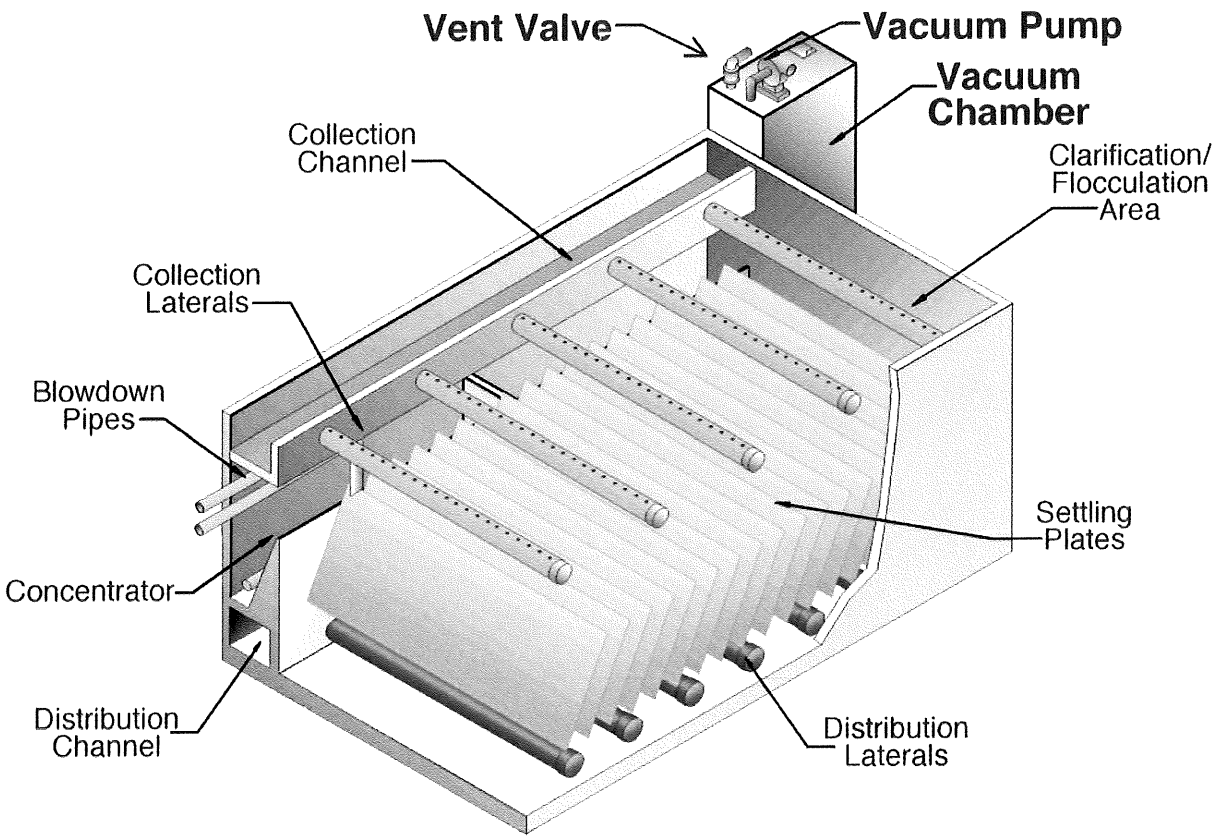
Options and expansions

Create the most efficient and cost-effective system for your needs.

Pulsapak® Package Treatment Plant
Self-contained and easy to install, Pulsapak is Superpulsator's package version. It comes complete with a two-bay filter and settling tubes (due to height restrictions, plates cannot be used).

Superpulsator Type U Clarifier
Our patented tube settler modules provide additional clarification to effluent water. The upward flow is polished by the projected tube surface while the lower tube walls guide residual floc back down to the sludge blanket. For increased capacity at a low cost, specify the Type U model.

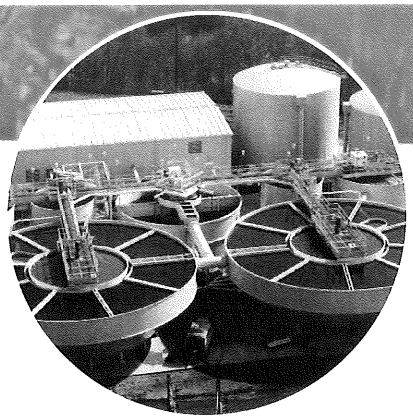
Greenleaf Filter Control
Combine Superpulsator with this space-efficient, rapid gravity filter for the most economical and reliable modular water treatment concept anywhere.



The heart of the system

The pulsation system – the heart of Superpulsator – consists of a vacuum pump to raise the water level in the vacuum chamber and a vent valve to lower it. As the water column rises in the vacuum chamber, the sludge blanket compresses like a spring.

When the vent valve opens, the water column surges into the distribution channel and laterals with a pulsing action that uniformly expands the sludge blanket.



Accelator Model IS

Conventional multi-tank systems don't compare

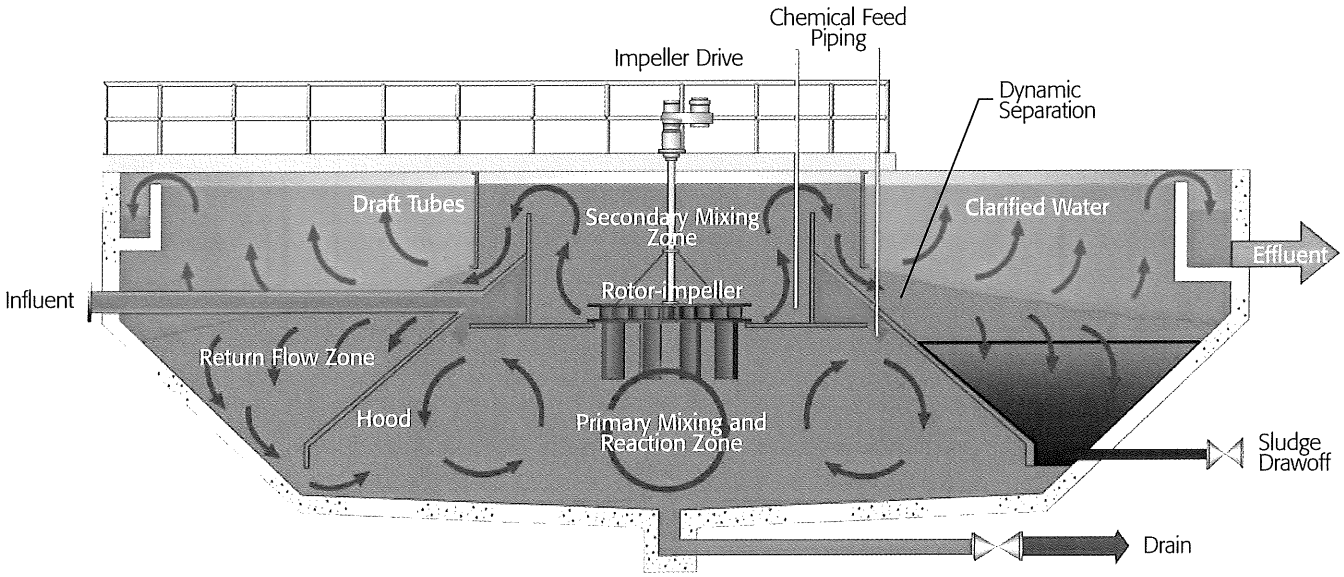
• **Superior effluent quality.** Accelator 's uniform slurry concentration produces consistent, high-quality effluent that's less susceptible to upsets in the plant. Treated water turbidity is normally between one and three NTU.

• **Capital savings.** Accelator's low-volume basin saves space and construction costs and completes treatment functions in a fraction of the time. Internal sludge concentrators effectively remove thickened waste sludge.

• **Efficient operation.** Accelator's independently adjustable rotor-impeller lets you customize the unit for site-specific conditions. Only one gear reducer and motor is required to achieve dual functions.

• **Design flexibility.** Both Accelator models are suitable for installation in round or square configurations with either concrete basins or steel tanks.

• **Easy maintenance.** Only routine checks of chemical treatment, slurry concentration, and drawoff rates are required. Chemical additions can be made in three locations for optimum utilization and treatment results.



Accelator's four-zone treatment process

1. Raw water enters the **primary mixing and reaction zone,** where it is mixed with previously formed slurry and treatment chemicals. The rotor-impeller combination prevents solids from settling on the basin floor and promotes dense particle growth.

2. Flow is directed to the **secondary mixing and reaction zone,** where continued slurry contact allows the treatment reactions to approach equilibrium.

3. Flow is discharged downward through the **return flow zone** and onto the surface of the slurry pool. Treated water is displaced upward and collected in launders while slurry is redirected to the primary mixing and reaction zone.

4. Excess sludge is collected in the **sludge concentrator** to be thickened and periodically drawn off.