



The Industrial Solutions Group

Providing World Class, Innovative Solutions

Wastewater Pump Station

- Electrical Engineering
- Mechanical Engineering

The Challenge: During heavy rains, the sewage treatment plant is over-capacity--allowing untreated effluent to flow directly into surface streams. Increasing the capacity of the treatment plant to handle peak stormwater flows is prohibitively expensive. Separating miles of combined sewer piping was also found to be prohibitively expensive.

The Innovative Solution

The sewer district instead opted to install a 3 million gallon retention tank to collect effluent during rainstorms -- and release effluent at a manageable rate after the storm. The Industrial Solutions Group (ISG) provided mechanical and electrical design engineering for this facility. The process system consisted of pumps, tank flow sensing and control. The design included a stand-by generator to provide normal power for lift pumps and standby power for the remainder of the facility.

Benefits to Client

- Reliability that excess flow will be treated properly.
- Prevents the environmental issue of effluent overflowing into the river.
- Significantly reduces capital and operating costs.