



JOHNSON MEMORIAL HOSPITAL

STAFFORD SPRINGS, CONNECTICUT

CASE STUDY

The not-for-profit hospital's 35 year old wastewater treatment plant was rebuilt for \$200,000; one-fifth the cost of replacing the facility; and, millions of dollars less than an interconnection to the municipal sewer system. The Water Planet Company designed and implemented the plant upgrade.

The following work was performed:

- All new, higher capacity blowers

- New equipment alarms and automatic dialer

- New clarifier motors and drives

- Rebuilt clarifier skimmer arms and scum return systems

- Rebuilt influent diversion box

- New in-line plug valves to allow for the use of any combination of aeration tanks / final clarifiers

- Installation of new liquid chlorine feed system: storage, pumping & piping equipment

- Renovate disinfection building (new insulation, new heating system, new ventilation equipment)

- Automated sludge wasting by installing new, hoist-mounted, submersible grinder pumps and piping controlled by timers to convey WAS to sludge holding tank

- Increased sludge storage capacity by the installation of a new sludge holding tank; installed new piping to convey sludge overflow to new headworks diversion box

- Improved roadway and drive by installing new gravel and bituminous road surfaces

- Repaired and expanded fencing

- Complete upgrade of three-phase electrical system: new MCCs, control panels, junction boxes, breakers, heaters, starters and alarms

- Control building renovation: new shelving, relocated sink away from MCC panels, new sheetrock and paint

The design received DEP approval. The facility is fully compliant with all permit requirements.

Better treatment, with a smaller carbon footprint, and at lower cost. The Water Planet solution!

