

# Springfield City, Ohio Wastewater Treatment Plant Upgrades

1935	The Springfield Wastewater treatment plant was originally constructed and placed into operation with preliminary and primary sewage treatment, and single stage anaerobic sludge digestion followed by a vacuum filter.
1961	An upgrade project was completed which provided secondary biological treatment with trickling filters. Hydraulic capacity was increased to 25 MGD (million gallons per day) daily average flow, and 37.5 MGD peak flow. The anaerobic digestion system was upgraded to two stage with a floating cover for gas storage.
1972	The preliminary treatment process was expanded and upgraded to dual units for screenings and aerated grit removal, and a chlorine contact basin and storage building for ton containers was added to improve the disinfection process.
1988	The plant was upgraded to advanced secondary treatment with activated sludge in tandem with the trickling filters, and dechlorination and post aeration was added after the disinfection process. The 1988 project also included a new Operations and Laboratory building.
1995	Mechanical sludge dewatering by belt filter press was constructed to replace earthen lagoons, and land application was provided by annual contract for the class "B" biosolids.
2000	<ul style="list-style-type: none"> <li>• combined sewer overflow screening and other headworks improvements</li> <li>• anaerobic digester structural renovations and new process heating system</li> <li>• effluent sewer expansion for peak flow handling</li> <li>• conversion from gaseous chemical disinfection to aqueous chemical disinfection</li> <li>• general repair and renovation to buildings and structures</li> <li>• installation of mechanization and electronics for a SCADA system for process automation.</li> </ul>