

With the arrival of the new Pittsburgh Glass Works, LLC (PGW) facility in Elkin, it was realized that the existing sewer system (including two pump stations) between PGW Drive and the WWTP was inadequate to reliably transport current and expected volumes of wastewater on a continuous basis.

This inadequacy is due to insufficient hydraulic capacity of pipes and pumps, lack of a standby generator, and unreliable equipment such as declining pumps and valves. Additionally, available pipe and pump capacity is being used up due to I/I (infiltration and inflow) upstream of the main outfall and Dutchman Creek #2 pump station.

This project consists of several elements all designed to improve the integrity, reliability, and hydraulic capacity of the Sewer Authority's collection system between PGW Drive and the wastewater treatment plant. The project includes the improvement of two (2) pumping stations, extending an existing 8" force main over 3,000 LF, the replacement of approximately 4,700 LF of 12" gravity sewer with 18" gravity sewer (the Dutchman Creek outfall), and the repair of various isolated defects in the sewers tributary to the outfall to eliminate I/I.