

Sewer System Capacity Upgrade Wet-Weather Pumping Facility/Interceptor Sewers

Client: Brookville Municipal Authority

Jefferson County, PA

Year: 2018 Cost: \$5,300,000



To abate sewer overflows in the Brookville conveyance system, Gwin, Dobson & Foreman designed a comprehensive solution for regulatory compliance. The project involved the replacement of low capacity interceptor sewers and installation of a wet-weather wastewater lift station. The lack of an adequate storm sewer system precluded source removal of excessive inflow-infiltration. The design intent was to increase the capacity of the system through larger conveyance facilities. The work involved:

- Installation of 10,000 LF of 10-30 in. diameter PVC interceptor sewers
- 1,000 LF of 6-14 in. diameter HDPE pressure pipe installed by directional drilling methods beneath the Redbank Creek for the White Street PS force main and Comet Market and Clement Run inverted siphons
- New White Street 9.0 MGD wet-weather wastewater lift station using four (4) self-priming, Gorman-Rupp pumps. The Industrial Park sewage lift station was also replaced.
- Replacement of 5,000 LF of 12-15 in. diameter sewer mains that were subject to excessive leakage and pipe failure
- The project was financed by a \$2.5 million PA-H2O grant from the Commonwealth Financing Authority and a USDA Rural Utilities Service grant/loan funding package



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Along with expansion of the wastewater treatment plants, sewer overflows will be cost-effectively eliminated without the need for total I/I source removal.

