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Whitefield Commemorates Completion of Wastewater Treatment Facility Upgrade

(WHITEFIELD, NH) The Town of Whitefield Department of Public Works cut the ribbon to mark the completion of their \$8.5M wastewater treatment facility (WWTF) upgrade. Built in the early 1980s, the Whitefield WWTF provides sewer service to approximately 600 residential and commercial users with an annual average design treatment capacity of 0.185 million gallons per day. To bring the facility into compliance with new, stringent total phosphorus (TP) standards, the Town evaluated various upgrade scenarios with the main goal of providing a WWTF capable of meeting current requirements and providing flexibility to upgrade the new process to meet potential future requirements.

The selected secondary treatment process upgrade included a full WWTF process conversion of the lagoon process to a mechanical, activated sludge process consisting of sequencing batch reactors. To meet the stringent TP requirements, a tertiary filtration system was implemented using cloth disc filters. In addition to meeting new TP standards, the upgrade also addressed general equipment replacement and long-term reliability of the Town's major wastewater treatment assets, including the preliminary treatment processes for grit removal and influent screening. Portions of the existing Facility had been in continuous service for over 30 years and required replacement or rehabilitation to maintain reliable operation.

Wright-Pierce provided the engineering design for the WWTF upgrade and Daniel Hebert, Inc. constructed the new Facility.

“With this WWTF upgrade, the Town has invested significant efforts in keeping the Johns River waterway safe for humans and wildlife for years to come,” stated Michael Curry, one of the lead Wright-Pierce engineers on the project.