

## 20-INCH TRANSMISSION MAIN CLEANING AND LINING CLAREMONT, NEW HAMPSHIRE



*Water main before and after cleaning and lining activities.*

In 2006, as part of a larger water main project, Dufresne Group (DG) provided the design and construction oversight for the cleaning and lining of approximately 4,500 linear feet of an existing 20-inch cast iron water main.

The 20-inch main is the major transmission main used to transmit water from the water treatment facility to the City. Prior to the project, the water main could only carry half of what a new 20-inch water main could carry. After cleaning and lining activities were completed, the reconditioned 20-inch water main is 120-130 can carry the same flow as that of a new 20-inch diameter water main.

Heitkamp of Watertown, Connecticut provided the services for the cleaning and lining portion of this project.

### KEY FEATURES

- The project required coordination with the installation of a new 16-inch water main that was used for temporary water while the 20-inch was being cleaned and lined.
- Reuse of existing facilities at about 30% of the cost of a new water main.
- Installation of new main line butterfly valves and hydrants completed as part of the project.
- Existing interconnection replaced with new valves.