

14-INCH TRANSMISSION MAIN CLEANING AND LINING

ST. JOHNSBURY, VERMONT



Before



After



Cleaning scrapers are pulled through the water main to remove any mineral buildup that is present.

Construction activity during the summer of 2009 was intense as multiple Water Distribution Upgrades were performed by the Town of St. Johnsbury, VT. One of these projects included the cleaning and cement lining of 6,700 lf of the unlined cast iron 14-inch source transmission water main that was originally installed in 1934.

The 14-inch transmission main parallels a 10-inch unlined cast iron main originally installed in 1917. The 10-inch served as the temporary source transmission main during cleaning and lining of the 14-inch line. The 10-inch water main was abandoned at the end of the cleaning and lining project and now serves as a sleeve for about two miles of polyethylene force main which carries waste process water and alum residuals from the Water Treatment Facility to the Town's Collection system .

KEY FEATURES

- Reuse of existing facilities.
- Minimized disruption of agricultural crops along cross country pipe route.
- Relined pipe hydraulically equal to new 14-inch pipe at about 30% of cost of new pipe.
- Replacement and addition of main line gate valves, blow offs and air release valves.