



WATER MODEL RESULTS SCREEN

The City of Leominster, Massachusetts provides drinking water to a population of approximately 36,000. Water is currently supplied to these users from four different sources and distributed through a complex network which includes three separate service areas.

The City imposed a moratorium on municipal water connections in 1999 as a result of drought conditions. During the drought, one of the sources of supply was depleted to the extent that water had to be drawn from a separate service area.

Dufresne Group created a computer model of the Leominster water system using Pipe 2000 software. The computerized hydraulic model was used as a tool to develop recommended improvements to the water transmission distribution storage systems. The improvements plan will provide additional sources to areas with limited supply and allow removal of the current moratorium as well as provide sufficient capacity to meet future demands.

KEY FEATURES

- 1,600 pipe model developed and calibrated for a municipality with no existing hydraulic model.
- Three previously isolated service areas connected as a result of the project.
- Improvements maximize system flexibility and provide for redundant water supply.
- Modeling results identified unknown closed valves within the distribution system.