



## 1. Water

The Town of Burrillville water supply is provided by several water and fire districts. The water suppliers, along the Route 102 corridor, consist of the Harrisville, Mohegan, Glendale and Nasonville Water Departments as shown in Figure 6. The Harrisville Water Department is the largest water supplier and the supplier located closest to the project area. Therefore the Harrisville Water Department has the greatest potential for expanding its water system infrastructure to serve the requirements of proposed development along the Route 102 corridor.

The existing Harrisville water supply source consists of 5 groundwater wells, which have the potential to produce approximately 1,100,000 gallons per day (gpd). Currently, the Harrisville Water Department is providing emergency water to Pascoag. It is estimated that the amount of water the Harrisville Water Department will have to provide, for both Harrisville and Pascoag, will range from 720,000 gpd to 1,080,000 gpd. The Harrisville Water Department is planning to develop additional well sites to meet the additional emergency water requirements for Pascoag and is in the process of seeking appropriate locations for those wells. Therefore our analysis assumes that either Pascoag will develop additional water supplies so that it will not be dependent on Harrisville, or that Harrisville will develop additional water supplies so that it will continue to have the capacity of 1,100,000 gpd for its Harrisville customers.

The current water demand, from the Harrisville customers, ranges from 252,000 gpd to 370,000 gpd. The water that Harrisville will be able provide for future development, will be between 730,000 to 848,000 gpd. It is estimated that this amount of water would be sufficient for 730 to 848 acres of commercial/industrial development, more than adequate for the Route 102 project area.

The Harrisville Water Department is also in the process of expanding its water distribution system. A 12" diameter water main is to be included in the expansion plans for Clear River Rd. from Central St. to Route 102. The water main will travel northerly on Route 102 to Whipple Ave. It will then be installed in Whipple Ave to the existing water line in East Ave (Route. 7). Installation of the water line in Route 102, from Clear River Rd. to Whipple Ave, will provide an opportunity for expanding the Harrisville distribution system northerly and southerly on Route 102 to provide water to future commercial/industrial developments.

## 2. Sewer

The Town of Burrillville has a public wastewater collection and treatment system. Figure 7 shows the parts of that system in and near the project area. The Wastewater Treatment Facility is located on Clear River Rd., and it has an average design capacity of 1,500,000 gpd. The Town recently completed a Wastewater Facilities Plan that recommended expanding the collection system in the Mohegan, Glendale and Nasonville Villages and for the Mapleville Trailer Park area. The Facilities Plan estimated that, in the design year of 2020, the average flow to the treatment facility would be between 1,200,000 to 1,300,000 gpd. This means that the treatment plant will have the potential to accommodate an additional 210,000 gpd. It is estimated that this additional capacity will

be able to treat wastewater from approximately 200 to 210 acres of commercial/industrial development. Therefore it appears that the treatment facility has sufficient capacity to accommodate additional development in the 102 project area.