

2016 Water Use Efficiency Report

In September 2003, the Washington State Legislature passed the Municipal Water Supply – Efficiency Requirements Act, also known as the Municipal Water Law. The Municipal Water Law required the State to implement the Water Use Efficiency Rule. The intent of this new rule is to help reduce the demand that growing communities, agriculture and industry have placed on our State’s water resources, and to better manage these resources for fish and other wildlife. Municipal water suppliers are obligated under the Water Use Efficiency Rule to enhance the efficient use of water by the system and/or its consumers. Union Hill Water Association is considered a municipal water supplier under the Municipal Water Law.

Requirements of the Water Use Efficiency Rule

The Water Use Efficiency Rule applies to all municipal water suppliers and requires suppliers to:

- Develop water use efficiency goals through a public process and report annually on their performance;
- Maintain distribution system leakage at or below 10 percent of production;
- Meter all existing and new service connections;
- Collect production and consumption data, calculate distribution system leakage and forecast demands;
- Evaluate water use efficiency measures; and
- Implement a Water Use Efficiency Program.

The Association adopted the following water use efficiency goals in April of 2008 and revised them in March 2014.

- Achieve a water use reduction of .5 percent per year per ERU through 2018, with 2012 as the base year. This goal will be re-evaluated when the water comprehensive plan is updated in 2018.
- Reduce distribution system leakage to 10% by 2025.

To achieve water use reduction the Association has, and continues to contribute to conservation education in schools, print conservation tips in our newsletter, have a conservation rate structure, provide rebates for water efficient clothes washers, meter sources and customer services.

To reduce system leakage the Association has taken the following actions:

- A water leak survey was performed in 2004.
- As a result of the leak survey, approximately 125 deteriorating galvanized fittings between the service lines and the meter were replaced.
- Selected water mains and service lines determined to be leaking were repaired or replaced.
- The Association began tracking water used during flushing and other Association activities.
- The Association coordinated with the Fire Department to begin obtaining their information on fire hydrant usage amounts during fires and training.
- The Association began a meter replacement program.
- Source meter cleaning was initiated on a semiannual basis to allow for more accurate readings.
- In 2016 the Association began a leak detection project that will span 4 years and will survey the entire system.

The Association’s system leakage has decreased from a 19% average from 2005- 2007 to 12.76% in 2016.