Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

Date Submitted: 6/30/2011

Water Use Efficiency
Annual Performance Report - 2010

WS Name: MILTON, CITY OF Water System ID# : 54950 WS County: PIERCE

Report submitted by: *Glen Baker*

Meter Installation Information:

Is your water system fully metered? *Yes*

If not fully metered - Current status of meter installation:

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: *12/15/2009* To *12/15/2010*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	*280,899,000* gallons
Authorized Consumption (AC) – Annual Volume	*264,704,705* gallons
Distribution System Leakage – Annual Volume TP – AC	*16,194,295* gallons
Distribution System Leakage – Percent DSL = [(TP – AC) / TP] x 100	*5.8 %*
3-year annual average	*3.4 %*

Goal-Setting Information:

Date of Most Recent Public Forum: *07/06/2010* Has goal been changed since last performance report? *No*

Note: Customer goal must be re-established every 6 years through a public process

WUE Goals:

Customer Goal (Demand Side):

Reduce the customer consumption be 0.5 percent per year through the year 2015, at which time the program and goals will be re-evaluated. The success of this goal will be measured in terms of consumption per ERU.

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

The City uses a billing process that shows consumption history on each customer's water bill. By being able to examine past water consumption histories, each customer can be more conscious of their water use patterns and actual increase in consumption and cost, compared to the same month in the previous year. This can have significant positive effects on conservation efforts and directly involves the customer in the City's conservation campaign. The City's billing department monitors customers' water usage for abnormally high water reads. When a read that is outside the range of normal use, the customer is notified of a potential leak on their side of the water meter. As a conservation incentive In order to encourage leak repairs, the City has a program that will credit 50 percent of the difference between normal consumption and high consumption when the leak is repaired. The credit is calculated using the previous year's billing for the same period. Water conservation materials published by DOH and the Department of Ecology (DOE) are made available to the public at City Hall and the Public Works building. These materials include lawn watering schedules, water conservation tips, and information on water saving devices for the home. Water conservation tips are also published on the City's web site. The City makes free sprinkler gauges available to it's' customers. In 2010 the City distributed approx. 100 rain gauges to our customers. The gauges allow customers to monitor lawn watering usage, resulting in more efficient lawn watering usage. Effective January 1, 2010 a conservation tiered rate structure was put into effect for both residential and commercial customers.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

The City's supply side goal is to maintain the current amount of distribution system leakage below 10 percent. In 2010 the distribution system leakage was 5.8 percent with a 3-year annual rolling average of 3.4 percent. The City has adopted utility standards that attempt to create loops within water lines whenever possible in order to promote better supply and a more flexible system. This technique also promotes water savings by reducing the need for flushing dead end water lines, which may not see proper circulation during normal use. As a member of the Water Cooperative of Pierce County, the City has partnered with eight other purveyors to purchase 75 FCS leak detection devices. These devices are used to identify leaks within the distribution system. It is estimated that as much as 5 percent loss may occur in older meters. To prevent losses from older meters, In November 2005 the City began a meter replacement program, replacing older meters with new Automatic Meter Reading (AMR) meters. These radio-read meters increase the accuracy of water consumption recording. The City has replaced approxmentlty 1,550 of the 2760 meters in the system, which represents approximately 56 percent of all meters. The City plans to have all remaining meters replaced by 2012. The City has implemented a metering policy for hydrant flushing. Though this program, the City can track water usage from hydrants from hydrants for construction purposes and City use. This effort will assist the City with tracking DSL.

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