

Water Use Efficiency Annual Performance Report - 2011

WS Name: BELLINGHAM-WATER DIVISION, CITY OF Water System ID# : 05600 WS County: WHATCOM

Report submitted by: *Anitra Accetturo*

Meter Installation Information:

Estimate the percentage of metered connections: *Less Than 50%*

If not fully metered - Current status of meter installation:

The City has approximately 9,700 metered water accounts and 15,000 flat-rate water accounts. Beginning June 1, 2012 the City is implementing mandatory metering and will be in compliance with the metering mandate by January 22, 2017.

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: *01/01/2011* To *12/31/2011*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	3,475,299,406 gallons
Authorized Consumption (AC) – Annual Volume	gallons
Distribution System Leakage – Annual Volume TP – AC	3,475,299,406 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	0.0 %
3-year annual average	%

Goal-Setting Information:

Date of Most Recent Public Forum: _____ 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):

- 1. Maintain city-wide water consumption at an average of 105 gallons per capita per day (gpcd) for residential use, and 77 gpcd for non-residential use for the next six years.*
- 2. Keep city-wide water demand equal to, or below, city population growth rate for the next six years.*

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

An estimated 26 million gallons of water was conserved in 2011 through the City of Bellingham's Water Conservation Program. The estimated water savings were achieved through the City's adopted water conservation program measures: public outreach (e.g.; rain barrel program, leak detection, water conservation kit distribution), multi-unit residential water rebates, and the water efficient fixture rebate for single-family residential water customers through the Community Energy Challenge and Water Conservation Program partnership.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

As the City of Bellingham moves towards a fully metered water system, the Water Conservation Program has focused outreach to its customers on active and passive water conservation measures that help to reduce peak demand, incentivize high water use fixture replacements, reduce energy costs to providing drinking water, and minimize water loss. These measures contribute to both supply and demand side reductions in water consumption.

The active and more behavioral measures of the program constitute the promotion of a shift in how and what we use drinking water for. Pairing the appropriate water source for the appropriate use – such as harvested rainwater for outdoor water needs, is an active strategy that assists in reducing water use during peak demand periods, reducing energy consumption, and laying a foundation for alternative ways a customer may reduce their water bill when metered. Interest in the City's sustainable water management project (e.g.; rainwater harvesting) continues to increase each year.

Passive and more technological measures include incentivizing high water use fixture replacement with low-flow comparables through a rebate program and partnership with the Community Energy Challenge (<http://www.communityenergychallenge.org/>) and city-wide leak detection on water mains and abutting water services. Leak detection provides not only water savings but is assisting the City in its efforts to efficiently and effectively meter all its remaining water customers. These strategies help to minimize supply & demand water loss and waste in the present while also providing a solid foundation for metering implementation and water use reductions.

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