

Water Use Efficiency Annual Performance Report - 2016

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: *More Than 75%*

If not fully metered - Current status of meter installation:

At the end of 2016, nearly 85% of meter installations were complete.

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: *01/01/2016* To *12/31/2016*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	2,939,999,788 gallons
Authorized Consumption (AC) – Annual Volume	gallons
Distribution System Leakage – Annual Volume TP – AC	2,939,999,788 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: *10/13/2014* 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 annual city-wide Average Daily Demand below 10 million gallons per day (mgd) during the 2014-2019 program period. 2. Maintain average peak day demand between June 1 and August 31 of each year to below 14 mgd during the 2014-2019 program period.

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

1. Continue water efficiency rebates for single-family residential water customers - 125 water assessments conducted, 24 toilets and 3 clothes washers retrofit and rebated through participation in the Community Energy Challenge partnership, with an estimated water savings of 162,000 gallons of water per year.
2. Continue water efficiency rebates for commercial water customers - 26 commercial water assessments conducted, 10 toilets were retrofit and rebated through participation in the Community Energy Challenge partnership, with an estimated water savings of 62,000 gallons per year.
3. Extend rebates to multi-unit water customers - Pilot project continued through 2016, with two multi-unit water customers receiving a water assessment.
4. Establish Best Management Practices for irrigation water customers - Projected for development and implementation in 2017.
5. Establish BMPs for industrial water customers - Projected for development and implementation in 2018-2019.
6. Establish BMPs for institutional water customers - Projected for development and implementation in 2018-2019.
7. Engage partners to provide water use efficiency resources to targeted customer classes - Continued contracts with RE Sources for the Sustainable Schools project; Opportunity Council and Sustainable Connections for the residential and commercial water assessments via the Community Energy Challenge; WSU Whatcom County Extension for the Sustainable Landscaping workshops.
8. Develop a system-wide water use efficiency cost-benefit analysis - Projected for development and implementation sometime after the dissolved air floatation (DAF) pretreatment system is installed and operating at the Water Treatment Plant—projected for 2018-19.
9. Reduce Water Treatment Plant operational water use correlates to installation of the (DAF) pretreatment system in 2018-19.
10. Conduct sustainable water management demonstration projects with community Partners - Implemented rainwater harvesting syste

Additional Information Regarding Supply and Demand Side WUE Efforts

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

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