

Water Use Efficiency Annual Performance Report - 2014

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: *50% to 75%*

If not fully metered - Current status of meter installation:

For the 2014 reporting period, the City has approximately 14,000 metered water accounts and 7,000 flat-rate water accounts. The City began mandatory metering implementation in June 1, 2012 and is on schedule to be in compliance with the metering mandate of January 22, 2017.

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: *01/01/2014* To *12/31/2014*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	2,863,219,832 gallons
Authorized Consumption (AC) – Annual Volume	gallons
Distribution System Leakage – Annual Volume TP – AC	2,863,219,832 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? *Yes*

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 - 232 residential rebates issued (10 had additional water assessments through the Community Energy Challenge), estimated water savings of 1.2 million gallons.
2. Continue water efficiency rebates for commercial water customers - 6 commercial rebates issued (7 water assessments included through the Community Energy Challenge), estimated water savings of 632,000 gallons.
3. Extend rebates to multi-unit water customers - A contract to develop water & energy assessments and rebates with a non-profit organization was secured during this reporting period.
4. Establish Best Management Practices for irrigation water customers - This measure projected for development and implementation in 2016-2019
5. Establish Best Management Practices for industrial water customers - This measure projected for development and implementation in 2016-2019.
6. Establish Best Management Practices for institutional water customers - This measure projected for development and implementation in 2017-2019.
7. Engage partners to provide water use efficiency resources to targeted customer classes - Continued contracts with RE Sources for the Green Classroom Certification 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 - This measure projected for development and implementation in 2015.
9. Reduce Water Treatment Plant operational water use via implementation of greater water efficient technology- This measure projected for development and implementation in 2015.
10. Conduct sustainable water management demonstration projects with community Partners - Implemented York Farm rainwater harvesting system demonstration site.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

City staff installed approximately 4,800 water meters on existing single-family residences from January - December 2014. These customers were converted from a flat-rate to metered billing for water service in January 2015. Outreach continues to both newly metered and to-be-metered water customers as the City continues on schedule for meter installation and billing conversion. Continuing city-wide leak detection on water mains and abutting water services provides significant water savings and assists staff 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 overall water use reductions.

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