



Operating permit # 925002

Water Use Efficiency Report for 2014

Goals were adopted by Council Resolution 2010-78, and need to be updated every six years.

The Water Use Efficiency Report (WUE) was submitted to the Department of Health on 4/22/2015.

The following is the Annual Water Use Efficiency Performance Report for 2014.

Adopted Supply Side Goal 1: City wide leak survey will be completed every four years.

Measurement:

- Target: Complete distribution system leak survey to be recorded as a percentage of surface area surveyed. City staff estimates it will take four years to survey the City at current staffing levels.
- Continue program in 2014.
- Status: New electronic leak correlator scheduled to be purchased in 2015.
- Annual Report to Council and to Department of Health on June 15 of each year:

Report of Progress Made in 2014:

1. *In 2014 non-revenue water was reduced by 64,480,000 gallons. This is the second year that non-revenue water has been significantly reduced.*
2. *Due to multiple equipment failures in past years, a new electronic correlator used for leak detection and locating was included in the adopted 2015-2016 budget at a cost of \$30,000.*
3. *50% (45 miles) of the steel main line was surveyed in 2014 by an outside contractor (American Leak Detection).*
4. *50% (45 miles) of the ductile main line was surveyed in 2014 by City staff.*
5. *City staff detected and repaired 152 water leaks in 2014. 59 leaks were main line leaks and 93 were service line leaks. The majority of leaks found were due to external corrosion. Size of leaks ranged from a ¼ inch hole to the complete failure of a service line.*
6. *The non-revenue water was 33.3% in 2011, 33.6% in 2012, 31.4% 2013 and 29.3% in 2014. The water loss goal set by the Washington State Department of Health is <10%.*
7. *The Public Works Department has applied for funding through the Public Works Trust Fund to install a radio read system for all water meters which would help identify leaks on the customer's side, helping us meet our conservation goals, and recover lost revenue from in accurate metering.*
8. *A large meter testing program was established in 2013 with good results. This program continued in 2014 and 10 meters ranging from 3" to 4" were identified as not meeting industry standards for accuracy. These ten large meters have been replaced.*

Adopted Supply Side Goal 2: Replacement of approximately one mile of water main line and associated service lines annually.

Assumptions:

- Budget development will include funding through the City's Infrastructure Repair and Replacement Program (IRRP).

Report of Progress Made:

1. *The City continued with the Infrastructure Repair and Replacement Program (IRRP) in 2014 including portions of Columbia Street, Clay Street, Center Street, Hilbrooke Drive, Spokane Street, and Wilbur Avenue. The City's Capital Improvement Program (CIP) in 2014 included water system improvements on portions of Rose Street, Wuana Vista Drive, Home Avenue, Brevor Drive, and Crestline Drive. City staff also replaced the water main on Colville Street in preparation for an upcoming transportation project.*
2. *The City replaced 1.92 Miles (10,166 linear feet) of main line pipe and approximately 118 services as part of these IRRP and CIP projects.*
3. *Additionally, City staff replaced 100 water services upgrading approximately 3,723 linear feet of galvanized service lines to copper or HDPE tubing. HDPE is the primary material used for water service at this time. Using this pipe material resulted in approximately \$50,000 to \$60,000 annually in cost savings, HDPE -eliminates external corrosion which is the main factor for leaks.*

Adopted Demand Side Goal 1: Reduce summer water use 5% by 2015.

Measurement:

- Target: Continue program in 2014.
- Annual Report to Council and Department of Health by June 15 of each year.

Report of Progress Made:

1. *Summer water use decreased by 4% when compared from 2011.*
2. *Facts and tips on water usage and conservation are presented weekly by the City of Walla Walla, in partnership with Walla Walla Community College and the Walla Walla Union-Bulletin. During the irrigation season, the Walla Walla Water Watcher article is published weekly in the Union-Bulletin.*

Adopted Demand Side Goal 2: Reduce overall customer usage 2% per connection, by 2015.

Measurement:

- Target: Continue program in 2014.
- Annual Report to Council and Department of Health by June 15 of each year.

Report of Progress Made:

1. *Compared from 2011 overall customer usage has stayed status quo.*
2. *The City has stepped up notifying customers about possible leaks. In 2014, City staff checked all accounts every month that had a higher than normal water usage and notified customers immediately of possible leaks.*