



Date Submitted: 6/29/2017

## Water Use Efficiency Annual Performance Report - 2016

WS Name: QUIMPER

Water System ID# : 05783

WS County: JEFFERSON

Report submitted by: *William Graham*

### Meter Installation Information:

Estimate the percentage of metered connections: 100%

If not fully metered - Current status of meter installation:

### Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: 12/15/2015 To 12/15/2016

Incomplete or missing data for the year? No

If yes, explain:

### Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	218,343,530 gallons
Authorized Consumption (AC) – Annual Volume	207,900,810 gallons
Distribution System Leakage – Annual Volume TP – AC	10,442,720 gallons
Distribution System Leakage – Percent DSL = [(TP – AC) / TP] x 100	4.8 %
3-year annual average	4.3 %

### Goal-Setting Information:

Date of Most Recent Public Forum: 12/15/2010 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 residential customer demand by 2% over 6 year planning period (2011-2017) Reduce state and local governmental demand by 2% over planning period (2011-2017).*

### Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

Overall customer use in 2016 was significantly less than in 2015 by 14 million gallons. This despite gaining over 300 additional customers in the fall of 2016 with the addition of Jefferson LUD#3. This large savings number was a testament to the difference between a very hot and dry spring and summer in 2015 and a relatively normal summer in 2016 for a large water system. This swing was also likely due to some improved efficiencies in treatment as well. Because the system has expanded significantly since the beginning of the planning cycle (2011) with the additions of Kala Point (over 500 customers) and now Jefferson LUD#3, tracking the customer usage goal of 2% reduction over planning period has been challenging. Both the number and type of residential customers changed, affecting per customer consumption. For instance, the difference between 2016 and the 2011 goal baseline in overall accounted for usage is an over 30 million gallon increase. That's a lot of new connections of all types of users with all kinds of needs. Over the course of the planning period (2011 -2017), measures available to Quimper customers included conservation kits and low flow showerhead giveaways at office and fairs, conservation education billing inserts, web pages and tiered conservation water rates and water use graphics on statements. In the last two years, rebates have been available for clothes washers and showerheads. Of these measures, the tiered rates and water use graphics have been active consistently over the entire planning period while others have been intermittently deployed, some during drought. Water conservation goals for Quimper will be re-evaluated when the PUD updates its water system plan in 2018.

#### **Additional Information Regarding Supply and Demand Side WUE Efforts**

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

*Despite a lot of infrastructure work in 2016 and the intertie to LUD#3, the PUD once again kept water losses down well below the state leakage standard of 10%. With continued metering of backwashing and improved efficiencies in water treatment, the PUD has continued to effectively transmit water to its largest customer base. The PUD continues to provide metered, non-potable water service to private water trucks dissuading theft from hydrants. The PUD will re-evaluate these demand and supply side goals when it is scheduled to update its water system plan in 2018.*

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