

SILVER LAKE WATER-SEWER DISTRICT  
SNOHOMISH COUNTY, WASHINGTON  
RESOLUTION NO. 653

A RESOLUTION OF THE BOARD OF COMMISSIONERS OF THE SILVER LAKE WATER & SEWER DISTRICT, SNOHOMISH COUNTY, WASHINGTON, ADOPTING THE WATER USE EFFICIENCY PROGRAM DATED JULY 2010, AND WATER USE EFFICIENCY GOALS INCLUDED IN SUCH PROGRAM.

WHEREAS, State law requires the District to adopt a Water Use Efficiency Program and water use efficiency goals; and

WHEREAS, after due notice the Commissioners held a public hearing on January 10, 2008 and took testimony on the Water Use Efficiency Program dated December 2007 and the water use efficiency goals set forth therein; and

WHEREAS, District staff in conjunction with District consultants from Gray & Osborne reviewed and developed updates to the 2008 Water Use Efficiency Program adopted by Resolution No. 626; and

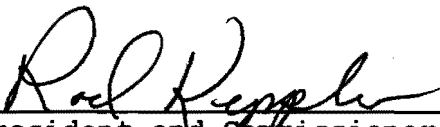
WHEREAS, such updates and improvements were presented to the Commissioners and the Commissioners have reviewed these updates and have determined to implement these new provisions and updates to the District Water Use Efficiency Program.

NOW THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Silver Lake Water & Sewer District, Snohomish County, Washington as follows:

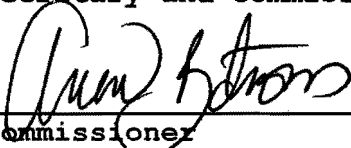
1. The Water Use Efficiency Program of the Silver Lake Water & Sewer District dated July 2010 and the water use efficiency goals set forth therein is hereby approved and adopted. Such Program shall be set forth in the District Water System Comprehensive Plan dated July 2010.
2. District staff are hereby authorized and directed to implement the Water Use Efficiency Program and water use efficiency goals as adopted.

Resolution No. 653

ADOPTED by the Board of Commissioners at a regular meeting of the Silver Lake Water & Sewer District, Snohomish County, Washington this 12<sup>th</sup> day of August, 2010.

  
\_\_\_\_\_  
President and Commissioner

  
\_\_\_\_\_  
Secretary and Commissioner

  
\_\_\_\_\_  
Commissioner

I CERTIFY the above to be a true and correct copy of Resolution No. 653 adopted by the Board of Commissioners of the Silver Lake Water & Sewer District this 12<sup>th</sup> day of August, 2010 as said Resolution appears in the records of the Silver Lake Water-Sewer District.

  
\_\_\_\_\_  
Secretary of the Silver Lake Water-Sewer District

Resolution No. 653

# SILVER LAKE WATER & SEWER DISTRICT

## WATER USE EFFICIENCY PROGRAM

August 12, 2010

### HISTORY

As part of its Comprehensive Water System Plan, the District is updating its Water Use Efficiency Program. The District adopted its first Water Use Efficiency Program in 2008 as a requirement under the Municipal Water Law. The District previously adopted Conservation Programs as part of its Comprehensive Water System Plans, following the program established through EWUC.

### CURRENT PROGRAM

The District's current program meets all state requirements for metering, distribution system leakage (DSL), and number of measures as required for a system the District's size. The District is required to implement five mandatory and nine supplemental measures. The District's current program implements all five mandatory measures, and the District directly supports six supplemental measures. An additional 14 supplemental measures are either funded or directly implemented through the District's participation in the EWUC program, funded through the District's wholesale rate.

The District is required to meet a 3-year rolling average distribution leakage level of less than 10 percent as part of the Water Use Efficiency Rule. The District began implementing a leak detection program in 2008 and has surveyed approximately 30 miles of pipe a year during that time. Table 1 illustrates the District's DSL from 2003 through 2009. District's efforts have reduced the District's leakage to 5 percent for the 3-year rolling average.

Table 1

Distribution System Leakage Summary

| Year | Production (MGD) | Consumption (MGD) | Distribution System Leakage |          |                        |
|------|------------------|-------------------|-----------------------------|----------|------------------------|
|      |                  |                   | MGD                         | Annual % | 3-year Rolling Average |
| 2003 | 3.94             | 3.70              | 0.24                        | 6%       | -                      |
| 2004 | 3.88             | 3.17              | 0.71                        | 18%      | -                      |
| 2005 | 3.49             | 3.27              | 0.22                        | 6%       | 10%                    |
| 2006 | 3.73             | 3.57              | 0.16                        | 4%       | 9%                     |
| 2007 | 3.54             | 3.35              | 0.19                        | 5%       | 5%                     |
| 2008 | 3.56             | 3.32              | 0.24                        | 7%       | 5%                     |
| 2009 | 3.84             | 3.69              | 0.15                        | 4%       | 5%                     |

The District is also required to reduce consumption as part of its water use efficiency goals. The District has reduced per capita consumption from 102 gpcd in 2003 to 85 gpcd in 2009. Table 2 illustrates the

District's program success in reducing demand-side water use. The District estimates it saved approximately 25.6 MG in 2009, ahead of its goal of 24 MG.

**Table 2**

**Water Consumption Savings**

| Year | Population (I) | Net District Water Use (mgd) | Consumption per Capita (gpcd) |
|------|----------------|------------------------------|-------------------------------|
| 2003 | 38,144         | 3.90                         | 102                           |
| 2004 | 40,563         | 3.85                         | 95                            |
| 2005 | 41,384         | 3.45                         | 83                            |
| 2006 | 42,797         | 3.73                         | 87                            |
| 2007 | 44,098         | 3.53                         | 80                            |
| 2008 | 44,393         | 3.54                         | 80                            |
| 2009 | 44,844         | 3.83                         | 85                            |

**PROPOSED PROGRAM**

The recommended program will continue the water use efficiency measures the District currently employs.