



Date Submitted: 10/29/2010

## Water Use Efficiency Annual Performance Report - 2009

WS Name: BLACK DIAMOND WATER DEPT

Water System ID# : 07220

WS County: KING

Report submitted by: Dan DalSanto

### Meter Installation Information:

Is your water system fully metered? Yes

If not fully metered - Current status of meter installation:

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

12-Month WUE Reporting Period: 01/01/2009 To 12/31/2009

Incomplete or missing data for the year? Yes

If yes, explain:

*There was a liquid chlorine spill that damaged December 09 pumping records. We used average daily flows to determine year end read.*

### Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	88,158,000 gallons
Authorized Consumption (AC) – Annual Volume	72,325,271 gallons
Distribution System Leakage – Annual Volume TP – AC	15,832,729 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	18.0 %
3-year annual average	%

### Goal-Setting Information:

Date of Most Recent Public Forum: 09/17/2009 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):

*The city is planning to reduce the average residential consumption by approximately 5 gallons per resident per day in the next 6 years.*

### Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

*Water savings from tiered rates is difficult to estimate because part of the reduction is due to a cool wet summer.*

*The city approved the conservation plan as part of the Water Comprehensive Plan update.*

*Public Education:*

- Conservation tips were sent out with the Consumer Confidence Report.*
- Conservation tips were also sent out in the city newsletter at the start of the summer.*

*System Measures:*

- Installed a new source meter and tested.*
- Replaced approximately 200 residential meters (first year of a 3 year total replacement)*

*Other Measures:*

*The city is in the approval process of two major master planned developments which will be 500% of the current city in 15 to 20 years. The city developed codes that require low impact development and water conservation measures. Through the approval process the City is requiring a water conservation plan requiring the developer to reduce water consumption per residence by at least 10%. It is through this aggressive requirements on the new development where the city expects to see the largest impact in the average customer demand.*

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

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

*The City replaced approximately a 1500 foot section of some of the oldest asbestos water transmission main (66 years old).*

*The City is anticipating and encouraging natural landscaping in many areas of the Master Planned Developments. The City and the developer are investigating the storage and reuse of stormwater for irrigation within the Master Planned Developments.*

*The new meters detect continuous use for 24 hour or more and will report at the time read of a possible leak. The city staff will investigate and notify at the time of meter reading. This is expected to save approximately 86,000 gallons per month.*

**Do not mail, fax, or email this report to DOH**