



Date Submitted: 1/11/2023

Water Use Efficiency Annual Performance Report - 2022

WS Name: SNOQUALMIE PASS UTILITY DISTRICT

Water System ID# : 81048 WS County: KING

Report submitted by: Tom Hastings

Meter Installation Information:

Estimate the percentage of metered connections: 100%

If not 100% metered – Did you submit a meter installation plan to DOH? No

Within your meter installation plan, what date did you commit to completing meter installation?

Current status of meter installation:

100% of our customer have water meters installed. New meters were installed 2016-2019 and are working well. The fixed radio ready system reads the meter every hour and provides valuable data to the District and the customer in form of abnormal usage alerts.

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period 01/01/2022 To 12/31/2022

Incomplete or missing data for the year? No

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	29,051,067 gallons
Authorized Consumption (AC) – Annual Volume in gallons	24,337,534 gallons
Distribution System Leakage – Annual Volume TP – AC	4,713,533 gallons
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	16.2 %
3-year annual average - %	17.4 % 2020, 2021, 2022

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 01/24/2022

Has goal been changed since last performance report? No

Note: Customer goal must be re-established every 6 years through a public process.

Customer WUE Goal (Demand Side):

The 2022 goal is to reduce missing water by 5% and lower it to 9% or less for the year. The second goal is to increase the percentage of customers that utilize the customer water meter portal to monitor their water usage. The goal is to increase this from 16% up to 25%. Staff will continue to use the fixed radio read system to monitor water meters and contact customers during high usage events.

Customer (Demand Side) Goal Progress:

Progress has been made in reaching the goal of customers registering for the water meter portal. Currently 26% of our customers have signed up for the water meter portal and set up leak alerts.

The fixed radio read system and advanced warning has saved our customer's 3,456,748 gallons this year.

The District fixed 5 leaks this year with a combined estimate of 15 gpm.

Additional Information Regarding Supply and Demand Side WUE Efforts

The District continues to budget and hire a contractor to assist with leak detection on the distribution system. District staff uses a device to monitor water meters and hydrants for leaks.

The water comp plan has been adopted. This updated plan indicates the need to reduce water pressure throughout the system y installing more pressure reducing valve stations. This upcoming years priority will be to install 1-2 pressure reducing valve in the Alpental Community.

Describe Progress in Reaching Goals:

- Estimate how much water you saved.
- Report progress toward meeting goals within your established timeframe.
- Identify any WUE measures you are currently implementing.
- If you established a goal to maintain a historic level (such as maintaining daily consumption at 65 gallons per person per day for the next two years) you must explain why you are unable to reduce water use below that level.

District repaired five leaks in the distribution system for a combined total of approx. 15 gpm.

The District is meeting our goals to reduce water usage by repairing leaks and monitoring high water usages at customers meters and notifying them proactively, thus conserving water.

For 2022 the water produced is at a 10 year low. This is a big achievement by the District and the community working together to conserve water.

The following questions will help DOH better understand water usage, water resources management and drought response. The data will be used to provide technical assistance, not for regulatory purposes.

All questions are voluntary

Month	Date of Measurement	Static Water Level (feet below measuring point)	Dynamic Water Level (feet below measuring point)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

Water level data:

Please provide the following information (if known) to help us better utilize the water level data.

Well tag Id number:

Well depth:

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)

Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc...)

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)? 429,688

Month	Volume of Water Produced in gallons
January	2,824,182
February	2,574,023
March	2,309,452
April	1,773,006
May	1,701,867
June	1,831,114
July	2,238,819
August	2,219,950
September	1,862,342
October	1,693,654
November	4,408,937
December	4,180,545

Water shortage response:

Did you activate any level of water shortage response plan the previous year?

- Yes No There was no need to

If you activated a water shortage response plan the previous year, what level did you activate? (Check all that apply)

- Advisory Conservation Voluntary Conservation
 Mandatory Conservation Rationing Other

What factors caused your water shortage the previous year?

- Drought Fire Landslides Earthquakes
 Flooding Water Supply Limitations Other

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