Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

Date Submitted: 4/18/2024

Water Use Efficiency
Annual Performance Report - 2023

WS Name: TRITON COVE

Water System ID# : 89447 WS County: JEFFERSON

Report submitted by: *William Graham*

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:

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period *02/02/2023* To *01/08/2024*

Incomplete or missing data for the year? *No*

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	*2,166,600*	gallons	
Authorized Consumption (AC) – Annual Volume in gallons	*1,464,877*	gallons	
Distribution System Leakage – Annual Volume TP – AC	*701,723*	gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	*32.4 %*		
3-year annual average - %	*36.7 %*		*2021, 2022, 2023*

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: *09/23/2020*

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):

Demand side goal approved by the PUD Board of Commissioner (BOC) in the 2020-2025 Water Use Efficiency Program is: 1. Maintain gallons per day per connection at 3-year mean average (2017 -2019) of 61 gallons/day.

Customer (Demand Side) Goal Progress:

The 4-tier water conservation rate structure remains in place as an incentive for customers to conserve water. Billing statements graph annual usage by month allowing the customer to track and compare monthly usage and sometimes identify leaks. Customers receive an annual water newsletter that includes links to the PUD's website and conservation tips for indoor and outdoor water usage.
As a Mason PUD 1 electric customer, you may be eligible for energy and water efficient rebates on clothes washers. Information on rebates can be found here: https://mason-pud1.org/rebates/.

Additional Information Regarding Supply and Demand Side WUE Efforts

Last year the Triton Cove well water level reached a 3-year low. The amount of seasonal variation was relatively low, in part because the recharge to the water table brought water levels up to "average" peak levels. However, due to a persistent system leak, production was significantly higher in 2023 comparatively and may have contributed to the seasonal low water level.

Similar to the customer goals, neither were the utilities production goals met, by about 360,000 gallons, most if not all was due leakage. Distribution system leakage (DSL) has increased significantly in recent years. The leak, assuming there is only one, is over a gallon a minute, a size of which can be very difficult to identify if underground. Fixing leaks is in everyone's interest! If you see spots that are persistently wet this summer that normally aren't, please let us know. Your vigilance may help us solve this persistent problem!

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.

These were explained earlier.

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	01/02/2023	232.8	
February	02/01/2023	230.1	
March	03/01/2023	230.3	
April	04/01/2021	233.4	
May	05/01/2023	233.2	
June	06/01/2023	233.0	
July	04/01/2023	232.6	
August	08/01/2023	233.2	
September	09/08/2023	232.9	
October	10/06/2023	229.6	
November	11/07/2023	234.4	
December	12/01/2023	231.6	

Water level data:

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

Well tag Id number:	ABA508
Well depth:	443.0
Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)	1 ft
Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc…)	Open ended, no screen or perforations
Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)	47.611, -122.991 (~ 10 ft)
Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)	Depth below measuring point
Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)	307 ft

Monthly/Seasonal Water Usage:

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

Month	Volume of Water Produced in gallons
January	166,400
February	158,500
March	158,400
April	158,100
May	244,500
June	241,300
July	281,600
August	221,800
September	164,100
October	128,800
November	122,000
December	121,100

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

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