



Date Submitted: 6/2/2021

Water Use Efficiency Annual Performance Report - 2020

WS Name: TRITON COVE

Water System ID# : 89447

WS County: JEFFERSON

Report submitted by: *Samantha Harper*

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 01/01/2020 To 12/31/2020

Incomplete or missing data for the year? No

If yes, explain:

| | |
|--|------------------------------|
| Total Water Produced & Purchased (TP) – Annual volume gallons | 1,925,900 gallons |
| Authorized Consumption (AC) – Annual Volume in gallons | 1,440,922 gallons |
| Distribution System Leakage – Annual Volume TP – AC | 484,978 gallons |
| Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 % | 25.2 % |
| 3-year annual average - % | 30.9 % 2018, 2019, 2020 |

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? Yes

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

Customer WUE Goal (Demand Side):

The one Demand Side Goals established, and approved by the BOC, in the 2020-2025 Water Use Efficiency Program is:

1. Maintain gallons per day per connection at 3-year mean average.

Customer (Demand Side) Goal Progress:

Triton Cove's 2020 customer average consumption of 61 gals/connection/day was about the same as the baseline customer average consumption. The 1 gallon per day per customer increase could be due to customers staying/working from home during the COVID-19 pandemic. Landscaping demands are comparatively modest at Triton Cove as a whole. But in a small water system, individual customers with new high-water demand landscapes in one year can skew customer usage higher.

Effective January 2020, the PUD BOC approved, by Resolution, a fourth-tier water rate. The customer reaches the fourth-tier rate when consumption exceeds thirty thousand gallons per month. This was intended to aid in the conservation of water.

Additional Information Regarding Supply and Demand Side WUE Efforts

The three Supply Side Goals established, and approved by the BOC, in the 2020-2025 Water Use Efficiency Program are:

- 1. Supply Side - Maintain distribution systems leak (DSL) percentage at or below 10-percent of system production as calculated on a 3-year average.*
- 2. Supply Side - Water systems not at or below DSL of 10-percent, reduce DSL by 10-percent in the next 3-years (Note: Baseline 3-year average from 2019, 2018 & 2017)*
- 3. Supply Side - Maintain water production at or below the 3-year mean average.*

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.

The water production, on a 3-year average, was reduced by approximately 64,000 gallons from the 3-year baseline years (2019, 2018 and 2017). The 2020 3-year average leakage rate was reduced by approximately 4 percent from the average baseline years (2019, 2018 and 2017); however, the leakage rate is still over the 10-percent state standard. Triton Cove has suffered from water losses episodically since the early 2000s and has a just over one gallon per minute leak. This could be due to slope creep and other slope related issues pulling lines apart. The crew will continue to try to find and repair the leak in 2021 to get to the 10% or less water loss goal/state standard. In addition, the PUD adopted 10-year capital improvement plan in JPUD's 2021 Water System Plan update which allocated money for fixing aging infrastructure.

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: ABA508

Well depth: 442.0

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft) 0.1 feet

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

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft) 47° 36' 39" N 122° 59' 29" W

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

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7) 312

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 | 90,405 |
| February | 83,708 |
| March | 91,367 |
| April | 92,693 |
| May | 118,254 |
| June | 114,304 |
| July | 151,940 |
| August | 167,052 |
| September | 189,058 |
| October | 108,035 |
| November | 98,082 |
| December | 118,697 |

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