



Date Submitted: 6/1/2021

Water Use Efficiency Annual Performance Report - 2020

WS Name: QUILCENE

Water System ID# : AB292

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	1,907,550 gallons
Authorized Consumption (AC) – Annual Volume in gallons	1,715,720 gallons
Distribution System Leakage – Annual Volume TP – AC	191,830 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	10.1 %
3-year annual average - %	10.0 % 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:

The 2020 customer average consumption of 136 gals/connection/day was above the baseline customer average consumption by 19 gallons per day per connection. The increase may have to do with more customers staying home in 2020 due to COVID-19. Effective January 2020, the PUD BOC approved, by Resolution, a fourth-tier water rate. The customer would reach the fourth-tier rate when consumption exceeds thirty thousand gallons per month. The 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.

With the 2020 3-year average production, the PUD withdrew 117,690 fewer gallons as compared to the 2019 3-year average (baseline). The 3-year average leakage rate increase from the baseline years (2019, 2018 and 2017), however, the 3-year average leakage rate is below the state standard of 10-percent.

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: ABR399

Well depth: 165.0

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft) 0

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° 49' 21" N 122° 53' 04" 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) 82

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	88,680
February	88,730
March	82,620
April	85,470
May	91,980
June	148,650
July	151,100
August	188,220
September	218,660
October	174,930
November	161,030
December	127,300

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