



Date Submitted: 6/1/2021

## Water Use Efficiency Annual Performance Report - 2020

WS Name: GARDINER LUD 1

Water System ID# : 07877

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:

<b>Total Water Produced &amp; Purchased (TP)</b> – Annual volume gallons	8,510,200 gallons
<b>Authorized Consumption (AC)</b> – Annual Volume in gallons	7,661,765 gallons
Distribution System Leakage – Annual Volume TP – AC	848,435 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	10.0 %
3-year annual average - %	9.3 % 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:

Per customer average consumption was below the baseline comparison of 160 gallons per day per connection by 17 gallons per day per customer. The 2020 customer average consumption of 143 gallons per day per connection is in line with the historic usage between 140 – 150 gals/connection/day.

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 PUD saw a reduction in the 3-year average water production by 949,167 gallons from the baseline 3-year average (2017, 2018 and 2019).*

*The Gardiner system reduced the 3-year average leakage rate by approximately 3-percent, as compared to the baseline average leakage rate. In addition, this system 3-year leakage rate dropped below the state standard 10-percent.*

*However, due to the systems age, the water crews will continue to diligently address water leaks and infrastructure breaks when they occur to maintain the goal of staying below the state standard of 10% water loss or less annually.*

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: ACM503

Well depth: 315.0

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) 48° 03' 28" N 122° 56' 40" 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) 144

### 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	413,649
February	382,759
March	456,297
April	571,629
May	642,938
June	688,248
July	944,483
August	1,135,030
September	867,098
October	605,308
November	504,960
December	449,372

### 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**