Date Submitted: 4/22/2024



Water Use Efficiency Annual Performance Report - 2023

WS Name: GARDINER LUD 1 Water System ID#: 07877 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 in Current status of meter installation:	nstallation?	
Production, Authorized Consumption, and Distribution System Leakage Infor	mation:	
12-Month WUE Reporting Period01/02/2023To12/01/2023Incomplete or missing data for the year?NoIf yes, explain:		
Total Water Produced & Purchased (TP) – Annual volume gallons	9,971,300	gallons
Authorized Consumption (AC) – Annual Volume in gallons	8,242,225	gallons
Distribution System Leakage – Annual Volume TP – AC	1,729,075	gallons
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	17.3 %	
3-year annual average - %	12.2 %	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):

The Demand/Customer Side Goal established, and approved by the PUD BOC, in the 2020-2025 Water Use Efficiency Program is: 1. Maintain 160 gallons per day per connection at 3-year mean average (2017 - 2019).

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. Rebates are available for customers who have purchased new energy and water efficient clothes washers. Information on how to apply can be found at https://www.jeffpud.org/additional-rebates/.

Gardiner customers did well to exceed their set goal of 160 gallons per day (gpd) by each conserving 12 gpd on average. Overall, that equates to about 670,000 gallons saved in 2023. Significant savings! Demand may have been down due to a relatively cooler summer. Many Gardiner residents have large lots with significant landscaping needs which is why the goal was set somewhat high. Goals will be revisited in 2026. One customer got a rebate on a water and energy efficient clothes washer saving up to around 300 - 350 gallons last year. It all counts!

Additional Information Regarding Supply and Demand Side WUE Efforts

Water levels in the lone Gardiner well do not fluctuate much annually and show no sighs of stress despite the trends in less than normal precipitation in recent years. In 2023, the PUD changed out the 40 plus year old pump and air gauge and can now use a well sounder to get more precise water level measurements. Water level monitoring will continue monthly to assure you have access to safe and reliable drinking water far into the future.

Last year, the utility did not meet its production goal, pumping over 400,000 gallons more than its target of 9.55 million gallons annually. The likely culprit was the distribution system leakage (DSL) which reached a high of 17.3% for the year. Due to this value, it pushed the 3 year average upward to 12.2%, over the state's DSL standard of 10%. The age of the system may be a factor and an advanced leak survey may be necessary to identify the leaks. Crews will be on the lookout to address this issue. Please, if you see a water leak, let us know.

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.

See descriptions above.

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	144.0	
February	02/01/2023	143.0	
March	03/01/2023	144.0	
April	04/01/2023	143.0	
Мау	05/01/2023	136.6	
June	06/01/2023	136.7	
July	07/01/2023	136.9	
August	08/01/2023	137.2	
September	09/09/2023	137.3	
October	10/06/2023	138.6	
November	11/07/2023	136.7	
December	12/01/2023	136.7	

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 (wit	hin 0.01 ft < 1 ft ~ 1 ft)	1 ft
Completion type (e.g., ca cased open-ended with p	sed open interval, cased open-ended, erforations, etc)	cased, open-ended, screened multiple intervals.
Location coordinates (lati coordinates (< 1ft, ~1ft,	tude, longitude) and accuracy of the >1000ft)	48.057968, -122.944568
Water level parameter na depth below top of casing	me (e.g. depth below measuring point, , depth below ground surface)	depth below measuring point.
Elevation of top of casing different than top of casin	OR elevation of measuring point if g (as specified in question 7)	144.5 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	601,000
February	546,000
March	630,000
April	537,100
Мау	778,500
June	1,072,600
July	1,463,000
August	1,723,100
September	1,114,800
October	474,000
November	494,000
December	537,200

Water shortage response:

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

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

Advisory Conservation
Mandatory 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