



Date Submitted: 5/31/2023

Water Use Efficiency Annual Performance Report - 2022

WS Name: BRAUNWOOD ESTATES

Water System ID# : 03336 WS County: KING

Report submitted by: *Senait Gebreeyesus*

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 _____ To _____

Incomplete or missing data for the year? No

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	1,181,230 gallons
Authorized Consumption (AC) – Annual Volume in gallons	1,103,440 gallons
Distribution System Leakage – Annual Volume TP – AC	77,790 gallons
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	6.6 %
3-year annual average - %	5.1 % 2020, 2021, 2022

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 08/02/2021

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):

Decrease the planning ERU value (gpd/ERU) 1 percent annually from the current planning ERU value of 179 gpd/ERU, which is the 75th percentile of the 7 years of historical data (2014-2020). Reevaluate goal when the planning ERU value reaches less than 172 gpd/ERU.

Customer (Demand Side) Goal Progress:

Decreasing the planning ERU value (gpd/ERU) 1 percent annually from the current planning ERU value of 179 gpd/ERU was adopted on 8/2/2021. The change of ERU value from year 2021 to 2022 was 429 to 251, a 41.5% decrease, the value of 251 for this year is the lowest value achieved so far.

The City continued to implement WUE program measures such as bills showing consumption history, consumer web portal to check consumption, customer possible leak alert, water saving device kits and conservation pricing.

Additional Information Regarding Supply and Demand Side WUE Efforts

All meters in the Braunwood system have been replaced in 2017 as part of the Advanced Metering Infrastructure (AMI) project. The Distribution System Leakage for year 2022 was 6.6%, below the 10% target. The rolling 3-year average was 5.1%, meeting the WUE rule of at or below 10%.

In 2022, the City continued to implement the WaterSense® toilet rebate program, providing customers a \$100 rebate per toilet for the replacement of up to two old toilets with new high efficiency toilets with the WaterSense® label.

The City continued to implement the low flow shower head giveaway program, providing free low flow shower heads so that customers could replace their higher flow ones.

The City continued to educate customers about water use efficiency practices.

The City continued to encourage the use of water conserving plants in landscaping for both public and private projects.

The City continued to use an inclining block rate for the quantity of water consumed to promote water conservation and customer notification of any high or abnormal water consumption.

The City continued to utilize the AMI (Advanced Metering Infrastructure) system to better understand usage, proactively and more efficiently and effectively manage the water resources and better response to customers.

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 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	01/05/2022	59.0	21.0
February	02/05/2022	59.0	21.0
March	03/04/2022	59.0	21.0
April	04/04/2022	59.0	22.0
May	05/10/2022	59.0	22.0
June	06/08/2023	59.0	21.0
July	07/07/2023	60.0	22.0
August	08/07/2023	60.0	22.0
September	09/04/2023	59.0	21.0
October	10/04/2023	59.0	21.0
November	11/11/2023	60.0	21.0
December	12/02/2023	59.0	22.0

Water level data:

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

Well tag Id number: 21/05-34E

Well depth: 352.0

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

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

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft) 47.26779 N, 122.17083 W

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

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7) 220'

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)? 12,578

Month	Volume of Water Produced in gallons
January	61,600
February	53,400
March	60,300
April	72,800
May	54,500
June	102,500
July	194,100
August	214,800
September	135,000
October	104,800
November	65,500
December	64,800

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