



Date Submitted: 3/24/2021

Water Use Efficiency Annual Performance Report - 2020

WS Name: BRAUNWOOD ESTATES

Water System ID# : 03336 WS County: KING

Report submitted by: Susan Fenhaus

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	1,630,100 gallons
Authorized Consumption (AC) – Annual Volume in gallons	1,531,900 gallons
Distribution System Leakage – Annual Volume TP – AC	98,200 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	6.0 %
3-year annual average - %	4.4 % 2018, 2019, 2020

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 10/25/2014

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):

1 percent reduction per year in equivalent residential unit values over 6-year planning period (2015-2020).

Customer (Demand Side) Goal Progress:

The goal of 1 percent reduction per year in equivalent residential unit (ERU) values over the 6-year planning period was adopted on 10/25/2014. The change of ERU values from year 2019 to 2020 was 329 to 349, a 6.1% increase, the value of 329 for year 2019 is the lowest value achieved so far.

The City continued to implement WUE program measures such as bills showing consumption history, 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. As a result, the Distribution System Leakage for year 2020 was 6.0%, below the 10% target. The rolling 3-year average was 4.4%, meeting the WUE rule of at or below 10%.

In 2020, 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 respond better to customers. The city completed the replacement of all meters in 2017 as part of the AMI implementation.

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	01/01/2020	57.7	16.3
February	02/02/2020	58.6	16.9
March	03/01/2020	59.1	15.6
April	04/01/2020	62.7	21.4
May	05/01/2020	62.7	18.8
June	06/02/2020	61.9	14.9
July	07/02/2020	63.8	14.7
August	08/01/2020	62.3	12.9
September	09/02/2020	62.6	21.6
October	10/01/2020	62.5	14.5
November	11/02/2020	62.7	15.1
December	12/03/2020	56.2	14.0

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 probe

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7) Probe is 264' below the plate of the pump

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)? 18,200

Month	Volume of Water Produced in gallons
January	73,700
February	63,700
March	71,300
April	75,900
May	109,300
June	141,200
July	265,900
August	320,500
September	258,900
October	86,300
November	69,500
December	75,800

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