



Date Submitted: 6/1/2021

Water Use Efficiency Annual Performance Report - 2020

WS Name: Coyle

Water System ID# : 36711

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	3,622,000 gallons
Authorized Consumption (AC) – Annual Volume in gallons	1,702,128 gallons
Distribution System Leakage – Annual Volume TP – AC	1,919,872 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	53.0 %
3-year annual average - %	55.2 % 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:

Coyle customers average water usage was below the baseline comparison by about 12 gallons per day per connection. The baseline comparison is 69 gallons per day per connection and within the last few years the Coyle customers have been below this daily average. The Coyle residence are not one of the PUD's higher usage customers. Effective January 2020, the PUD's BOC approved, by Resolution, a fourth-tier water rate. The customer reaches the fourth-tier rate when the 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 Coyle system continues to present formidable leakage challenges as it has since the day the PUD took over management of the water system in 2013. Leakage rates have exceeded 50% numerous times since then and the water crew has regularly identified and repaired leaks and water lines in the system. In the last 3 years, the PUD has tried to tighten the system and teach the local fire district how to slowly open and close hydrants so not to cause water main leaks and failures. Overall, progress toward reaching the 10% leakage standard has been frustratingly slow. The PUD is looking at funding sources to assist with the replacement of the distribution pipe. The 3-year average leakage rate was reduced by almost 3-percent from the baseline 3-year average period (2017, 2018 and 2019). The 3-year average water production was reduced by 327,333 gallons as compared to the baseline average (2017, 2018 and 2019).

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: ACQ526

Well depth: 322.0

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) 47° 41' 53" N 122° 48' 02" 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) 240

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	113,330
February	97,260
March	98,530
April	114,174
May	132,026
June	147,195
July	156,502
August	214,541
September	236,035
October	134,846
November	116,111
December	134,488

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