

**CITY OF ENGLEWOOD – WATER EFFICIENCY PLAN
50% PROJECT COMPLETION REPORT**

FEBRUARY 18, 2022

The City of Englewood (Englewood) provides potable water service to a water service area including approximately 34,600 residents and numerous businesses. Englewood is an established water provider with a history of reliable water service dating back to the 1950's, and Englewood is committed to efficiently and reliably serving water to its customers.

Since April 2021, Englewood has been engaged in a water efficiency planning effort to analyze Englewood's recent water use, identify Englewood's updated water efficiency goals, and to design a set of water efficiency programs compatible with those goals. On October 13, 2021, Englewood was awarded a Water Efficiency Grant from the Colorado Water Conservation Board (CWCB) to help fund its water efficiency planning efforts. This report serves as a 50% project completion report to the CWCB regarding progress on the planning project.

Task 1: Analyze Historical Water Use Data and Initial Efficiency Measure Selection

Status: Completed

The first task of the water efficiency planning effort included analyzing Englewood's historical water billing and water distribution data and holding a workshop with City staff to review historical data trends and select potential efficiency measures to consider. Task 1 is complete. The workshop with City staff was held on December 13, 2021. The group reviewed and discussed worksheets listing more than 140 potential water efficiency activities, which were based upon Worksheets D through G of Colorado Water Conservation Board's (CWCB) Municipal Water Efficiency Plan Guidance Document. The potential activities were screened by Englewood staff based on the following criteria which were agreed upon by the group:

1. Do Staff have time/capacity for it?
2. Can it be accepted by the public and leadership?
3. Does it offer measurable, cost-effective water savings (water savings per amount spent)?

Tables summarizing Englewood's 2017 through 2021 water use are included below (Table 1 and Table 2). Englewood staff reviewed 2017 through 2020 data in their December meeting, but the addition of 2021 data below was made in January 2022 during preparation of the Water Efficiency Plan report.

The workshop with City staff was delayed by approximately 1 month due to urgent compliance activities that diverted staff time and resources. Despite this delay, Task 1 was completed by its December 24, 2021 end date, with the exception of adding 2021 water use data to Englewood's water use history, which occurred in January 2022. This addition was considered appropriate given the timing of the planning effort.

Table 1
Englewood Potable Water Distribution
2017 through 2021

Calendar Year	Potable Water Production (AF)	Total Billed (AF)	Total Billed by Customer Category (AF)						Unbilled Water (AF)
			Commercial	Industrial	Municipal	Single-Family	Multi-Family + Mobile Homes	Other	
2017	5,815	5,158	992	345	354	2,166	1,191	111	656
2018	6,102	5,140	945	357	420	2,162	1,172	87	958
2019	5,798	4,989	997	355	348	2,056	1,169	70	803
2020	6,664	5,468	957	348	376	2,432	1,254	113	1,185
2021	5,986	5,568	1,048	446	352	2,293	1,288	142	418
Average	6,073	5,265	988	370	370	2,222	1,215	105	804

Source: Englewood metered Allen WTP production and customer metered water use.

Table 2
Annual Per Capita Water Demand

Year	All Water Production and Customers			Metered Residential-Only Customers		
	Potable and Non-Potable Water Production (AF)	Total Service Area Population	Service Area Per Capita Water Demand (gpcd)	Residential-Only Billed Water (AF)	Metered Service Area Population	Residential-Only Per Capita Water Demand (gpcd)
	(1)	(2)	(3)	(4)	(5)	(6)
2017	6,035	34,825	155	3,358	29,626	101
2018	6,431	34,786	165	3,335	29,831	100
2019	6,027	34,745	155	3,225	30,034	96
2020	7,022	34,562	181	3,685	30,341	108
2021	6,285	34,899	161	3,581	31,182	103
Average	6,360	34,763	163	3,437	30,203	101

Note

(1) Total potable and non-potable water production, with the former from Table 1.

(2) Equal to municipal population data from Colorado Department of Local Affairs, State Demography Office added to an estimated 905 water customers located outside Englewood municipal boundaries.

(3) Equal to (1), converted to gallons and divided by (2) and 365 days.

(4) Equal to the sum of "Single-Family" and "Multi-Family + Mobile Homes" billed water from Table 1.

(5) Metered population was estimated as (2) minus estimated unmetered population, based upon number of unmetered taps (from Billing Department or estimated by interpolation), and assuming 2.08 people per unmetered single-family tap and 16.18 people per unmetered multi-family tap.

(6) Equal to (4), converted to gallons and divided by (5) and 365 days (366 days in 2020).

Task 2: Draft Water Efficiency Plan

Status: Completed draft Plan under review by City staff

The second task of the water efficiency planning effort included drafting Englewood's Water Efficiency Plan. Several meetings occurred to solicit feedback from City staff and gather information for the Plan. The Plan has been drafted and is currently under review by City staff. A draft of the plan will be provided to CWCB for review by the end of February 2022.

Tasks 3 through 5 are anticipated to follow the original project schedule and City staff is not anticipating any delay to the overall project timeline.