



## MEMORANDUM

CWS File #18-160

To: Colorado Water Conservation Board

From: Michelle Hatcher *mh*, Sira Sartori *ss*

cc: Rick Pickard, City of Evans

Date: February 11, 2020

Subject: 50% Progress Report for City of Evans Municipal Water Efficiency Plan Update

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Clear Water Solutions (CWS) is assisting the City of Evans (City of Evans) with its Municipal Water Efficiency Plan Update (Plan) in accordance with State regulations following the Guidance Document (dated July 2012) produced by the Colorado Water Conservation Board (CWCB). As discussed in the Scope of Work, this 50% Progress Report includes the following elements:

- The success of meeting previously identified goals and objectives
- Obstacles encountered
- Preliminary findings or accomplishments
- Potential need for revisions to the scope of work and timelines

The City, in coordination with CWS, have made strong progress towards the completion of the goals and objectives outlined in Tasks 1 through 3 described in the Scope of Work. This includes: profiling the existing water supply system, identifying supply-side limitations and needs, analyzing historical water demands, forecasting future demands, and evaluating the cost/benefit of water efficiency activities. No major obstacles have been encountered in the development of this Plan. The only revision to the Scope of Work is the schedule. A revised schedule is provided in Table 1 at the end of this memorandum. A brief overview of some of the preliminary report text and findings<sup>1</sup> from Tasks 1 through 3 are provided in the following paragraphs.

The City of Evans is located just south of the City of Greeley in south-central Weld County. The State Demography Office reports the population grew from approximately 18,600 to 21,600 people from 2010 to 2018, an increase of about 16%. The City anticipates a 2% growth rate per year over the next five years. Evans uses both treated

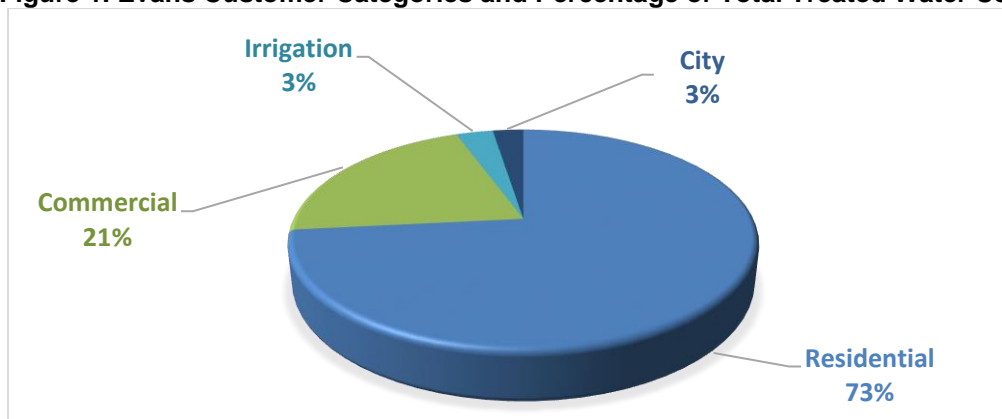
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<sup>1</sup> Preliminary findings may be revised in the final Plan.

and non-potable water supplies in its water service area. Treated water is from the Colorado-Big Thompson Project and shares/rights in the Greeley and Loveland Irrigation Company, Seven Lakes Reservoir Company and Loveland and Greeley Reservoir Company. Non-potable water is from the Evans Town Ditch.

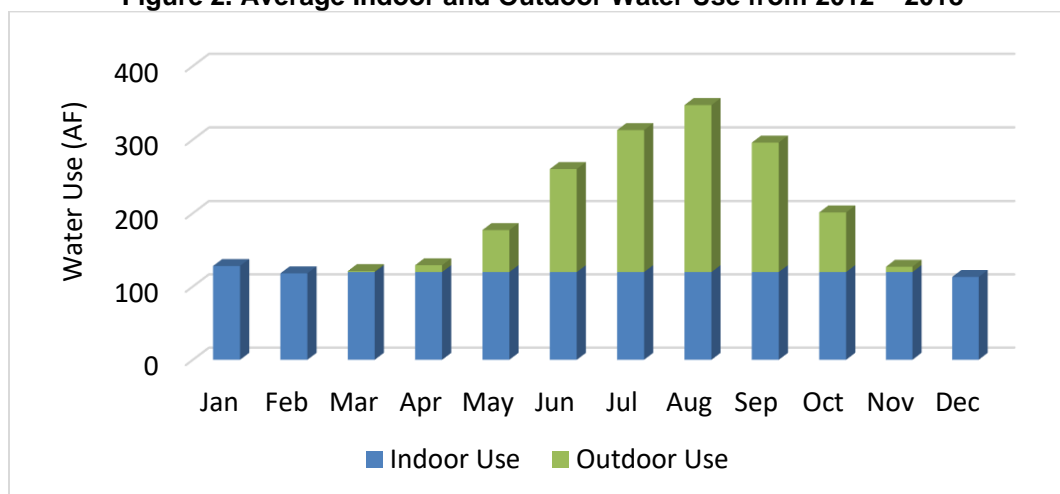
The City has four treated water customer categories in its billing system: residential, commercial, irrigation and city. From 2012 through 2018, the total treated water demand billed to customers averaged 2,332 acre-feet (AF). Residential water use is approximately 73% of the treated water use and averages 1,711 AF per year. **Figure 1** illustrates the average water usage from 2012 through 2018 for each customer category. Non-revenue water averaged 9%.

**Figure 1. Evans Customer Categories and Percentage of Total Treated Water Use**



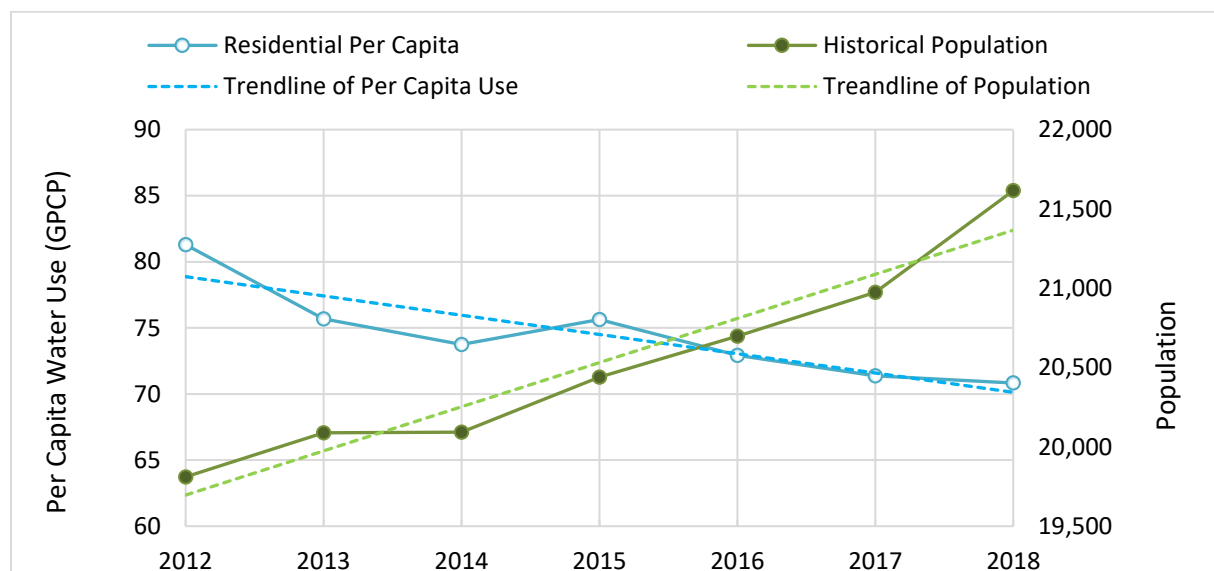
Approximately 62% of the treated water use is used indoors by Evans' customers. The indoor water use averages 120 AF per month. The outdoor water use peaks in August at over 200 AF. The monthly breakdown of indoor and outdoor water uses are shown in **Figure 2**.

**Figure 2. Average Indoor and Outdoor Water Use from 2012 – 2018**



System wide per capita use can vary between cities depending on the type and number of commercial customers in the system. Residential gallons per capita per day (GPCD) gives a better approximation of residential consumption and can be compared to cities similar in size and location. Residential per capita use in Evans averaged 75 GPCD from 2012 through 2018 and has shown a downward trend over that time (see **Figure 3**). The Residential GPCD value includes single- and multi-family residential indoor uses, plus lawn irrigation in the summer months.

**Figure 3. Average Indoor and Outdoor Water Use 2012 - 2018**



The water savings goal for the MWEF Update is 10% over the next ten years; therefore, the City selected a variety of water efficiency activities to evaluate in the cost/benefit analysis to achieve this 10% savings. Activities were selected from the Foundational, Targeted Technical Assistance and Incentives, Ordinances and Regulations, and Education categories described in the Guidance Document. The City has already implemented various water efficiency activities including (but not limited to): establishing a Water Efficient Rate Structure, Comprehensive Master Plans, Weekly and Time of Day Outdoor Watering Restrictions and Billing Statements that Encourage Water Savings. Some of the new activities the City would like to evaluate include:

- System Wide Water Audits
- Leak Detection and Repair Program
- “Slow the Flow” Residential Indoor Audits
- Indoor Rebate and/or Retrofit Program
- Irrigation Systems Standards for New Developments
- Xeriscape Demonstration Garden

To-date, Evans has conducted three meetings with CWS Staff to prepare the MWEF, including a kick-off meeting, a meeting to determine the water efficiency activities for initial evaluation and a meeting to review the cost/benefit analysis. The City of Evans and CWS are in the process of evaluating the cost/benefit analysis and selecting the final water efficiency activities to be included in the Plan. Concurrently, Evans is working with the City of Greeley to brainstorm and establish future water efficiency activities.

The schedule for the Plan has been updated from the original Scope of Work. This was due to the City Staff and Council's schedule in completing and reviewing a future water demand analysis and discussing water efficiency goals/activities for use in the Plan. **Table 1** provides a table of the revised Plan timeline.

**Table 1: Plan Timeline**

Task	Date
CWCB approves grant and PO issued	6/28/2019
Kick-off meeting with staff	7/22/2019
Meeting No. 2 - Main topic: Potential Activities	11/12/2019
Meeting No. 3 - Main topic: Review cost/benefit analysis	2/10/2020
Submit 50% progress report to CWCB	2/11/2020
Submit 75% progress report to CWCB	3/11/2020
Submit draft Plan to staff for review and comment	4/20/2020
Staff provides comment from review	5/11/2020
Submit draft Plan to Council for review	5/22/2020
Present draft Plan at City Council meeting and collect comments	6/2/2020
Notify public of draft Plan in paper and website	6/3/2020
Public review period (60 days)	8/2/2020
CWS incorporates public comments	8/10/2020
City Council formally adopts final Plan	8/18/2020
CWS submits final Plan to CWCB	8/19/2020
CWCB approves final Plan	up to 90 days