



# THE Pipeline

YOUR CURRENT WATER INFO SOURCE

**SUMMER 2016**

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## Water Efficiency Planning at ACWWA

On May 19, 2016, the Colorado Water Conservation Board approved ACWWA's 2015 Municipal Water Efficiency Plan Update. In this plan, ACWWA's staff will be focusing on maximizing the use of its water supplies in part by reducing unaccounted for water in the ACWWA system. Staff is also reviewing new water efficiency rebates that may be available to customers; stay tuned for more information on those programs! In 2014, ACWWA's customers utilized approximately 3,040 acre-feet (AF) of treated water. ACWWA is expected to increase its annual water demand through new growth to approximately 3,813 AF of treated water (or 4,250 AF of raw water) over the planning period which extends to 2024. The efforts identified in this plan will allow ACWWA to increase the efficiency of its water supply. The savings from this planning effort will make a considerable contribution towards reducing the water supplies needed to serve the 2024 demand.

This report documents ACWWA's water system, past and future water use, and the water efficiency planning process used in accordance with the Colorado Water Conservation Board's Municipal Water Efficiency Plan Guidance Document.

The plan's full text can be found under the Water Efficiency tab on ACWWA's website at [www.acwwa.com](http://www.acwwa.com)



# PROJECTS UNDER WAY



## Arapahoe Road Project

The City of Centennial continues work on the widening and paving Arapahoe Road. The project includes areas from Waco Street to South Himalaya Street. The project is expected to be completed in the 4th quarter of 2016.

As part of this important project, ACWWA is installing a new water pipeline that will bring water from the ACWWA Flow Northern Project into our water system. This piece of pipeline will connect to the water delivery system located near South Himalaya Street and Arapahoe Road. This pipeline will ultimately deliver up to 5.25 million gallons per day of high quality water to our distribution system. As of June 1, the majority of the pipeline will be installed. This new water supply will be ready for delivery within the last quarter of 2016.

The pipeline that is being installed is a 24-inch diameter water main, which was connected to ACWWA's water main in Arapahoe Road. This main will ultimately connect to another pipeline that will carry water from the transmission main located in Smoky Hill Road. The water that will enter ACWWA's distribution system is treated by reverse osmosis at a water treatment facility that is part of the ACWWA Flow Project. This water is part of ACWWA's long term supply plan to ensure high quality, sustainable water for all of ACWWA's customers.



## Elkhorn Ranch Water Supply Well

A new well to provide additional water supply to the growing Elkhorn Ranch community was drilled in early 2016. The design to connect to the Elkhorn Ranch water supply system is being finalized to allow the new supply to be incorporated into the system. The new well was drilled adjacent to the existing well that serves the Elkhorn Ranch community. The original well is drilled into the Arapahoe Formation, a confined layer of water supply that is approximately 1500 to 1800 feet below the ground. The second well was drilled into the Denver formation, at a maximum depth of 1100 feet below ground. The two wells will

provide the water supply for the Elkhorn Ranch Community. This growing community has seen construction of approximately 70 new homes over the past 2 years. This raises the total lots developed to more than 170 of the 250 total lots available in the development. ACWWA has been providing water services since the early 2000's and continues to be the water provider for Elkhorn Ranch.

ACWWA expects to receive approval of the new well supply connection details from the Colorado Department of Public Health and Environment in the next couple of months. Construction of the new connection facilities will be completed within three months of receiving the approval. Residents of Elkhorn Ranch will receive this new water supply, in addition to the existing supply, later this year.



## IT'S TIME TO TUNE UP YOUR SPRINKLER SYSTEM!

Keeping your irrigation system working properly is essential to conserving water and saving money. Activate the system and walk around your yard to observe any interference with the sprinklers, and to check for broken sprinkler heads. Problems that occur frequently include:

- ⇒ Spray heads or rotor heads that are too low, which can cause them not to pop up over the top of the grass and spray in the proper pattern.
- ⇒ Spray heads or rotors that are out of adjustment, which can cause them to spray areas that should not be watered or cause them to spray too far or too short.
- ⇒ Zone valves that are leaking allowing water to puddle around the lowest spray or rotor heads in your yard. If the valve does not close all the way, it will allow water to leak out of the heads and puddle around the lowest sprinkler heads. This is common with aging valves.
- ⇒ Zone valves that either will not turn on or will not shut off. This is also common with old valves.
- ⇒ Controller or timer not working properly. If the controller does not turn on either it is not getting electricity or it needs to be replaced. If the controller comes on but it blows a fuse while sprinklers are on or it indicates that a particular zone has a problem, you may have a zone valve that needs replacing or there may be a wiring problem between the controller and the zone valve. Often, the zone valve solenoid needs to be replaced.

The good news is many of these problems are easily fixed, even without in-depth knowledge of the system. The internet has many articles which offer step-by-step instructions on how to fix and maintain your system. If you decide to hire a landscape professional to inspect and tune up your system, you'll want to be sure they provide the following services:



- Recharge pipe system slowly to avoid pipe damage from water surge
- Inspect and clean backflow to eliminate leaks
- Pressure test the mainline pipe to detect leaks
- Inspect each zone to ensure they are operating correctly
- Straighten and raise five crooked sprinklers (additional sprinklers may incur added fees)
- Do a visual pressure test of each zone and note any pressure issues with recommendations for repairs or adjustments
- Lean sprinkler spray nozzles to ensure proper sprinkler coverage
- If applicable, inspect rain sensor for proper function and repair if needed
- If applicable, replace batteries in wireless rain sensors
- Set a basic schedule for proper watering to minimize excessive watering
- Check sprinkler coverage to ensure water is not being wasted on pavement

## ACWWA IMPLEMENTS VOLUNTARY WATERING SCHEDULE

Beginning May 1st, ACWWA implemented Stage 1 Water Conservation Measures as defined in ACWWA's Water Conservation Response Plan. The primary component of Stage 1 is a voluntary, every third day watering schedule, as outlined in the calendar below. The full text of the Water Conservation Response Plan can be found on our website under the Water Efficiency tab ([acwwa.com/water-efficiency/](http://acwwa.com/water-efficiency/)). Thank you for doing your part; we look forward to a good year of using our water wisely.



### 2016 Watering Schedule

May						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	5	26	27
28	29	30	31			

Watering is according to the last 2 digits of your address. If your address ends in digits:

0-30	Water on	
31-60	Water on	
61-99	Water on	