

CASTLE ROCK WATER

# 2023 WATER EFFICIENCY MASTER PLAN (WEMP)

MARCH 7, 2023



# WEMP

## BACKGROUND

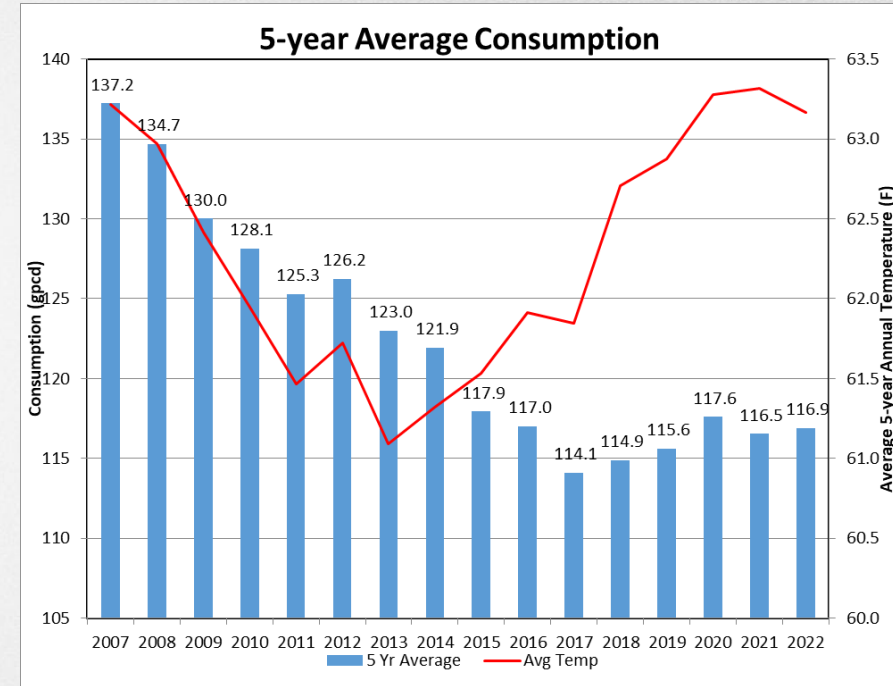
- Key puzzle piece of Castle Rock Water's Long Term Water Resources Strategic Master Plan
- Guidance document submitted/approved by the Colorado Water Conservation Board (CWCB)
- Updated every seven (7) years
- Document focuses on accomplishments and outlines goals for the next 7-year period
- WEMP implemented through Water Use Management Plan; Landscape and Irrigation Criteria Manual; Ordinances; and Rebate Program



# WEMP

## OVERARCHING GOALS

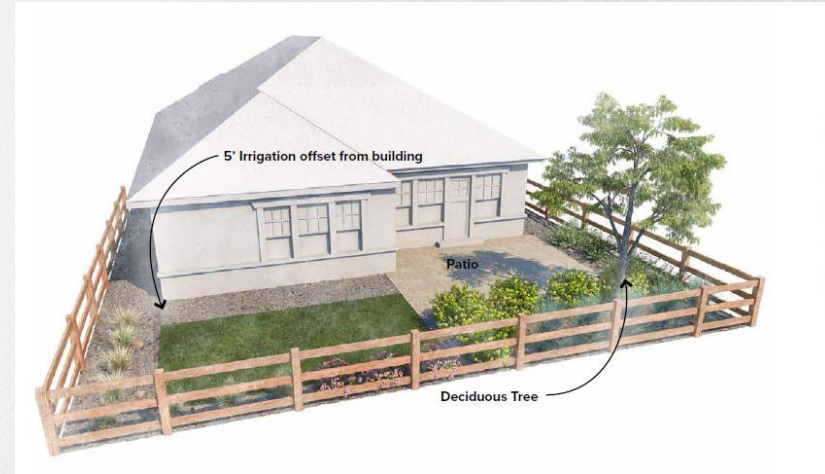
- Reduce current and future water demands
  - ✓ Achieve 100 gallons per capita per day or less
  - ✓ Reduce current average usage by 15+%
  - ✓ Reduce irrigation season peak demands
- Create a community culture that embraces water efficiency
  - ✓ 75% Renewable water supply by 2050
  - ✓ Beautiful landscapes that are water efficient and drought tolerant (ColoradoScapes)
- Ensure financial stability
  - ✓ Save \$70M-\$110M or more on future needed water rights and infrastructure
  - ✓ Maintain stable and competitive water rates



# WEMP

## KEY ACCOMPLISHMENTS

- Non-residential water budget updated to include more accurately defined irrigated areas and plant types
- Conservation projects completed on several Town facilities
  - ✓ Metzler Park ballfields
  - ✓ Public Works Service Center
  - ✓ Centennial Park tennis courts
  - ✓ Butterfield Park
  - ✓ Paintbrush Park ballfields (almost complete)
- ColoradoScape rebate program expanded to include non-residential properties
- Updated Town Code allowing the use of graywater
- Kentucky Bluegrass no longer allowed, new residential

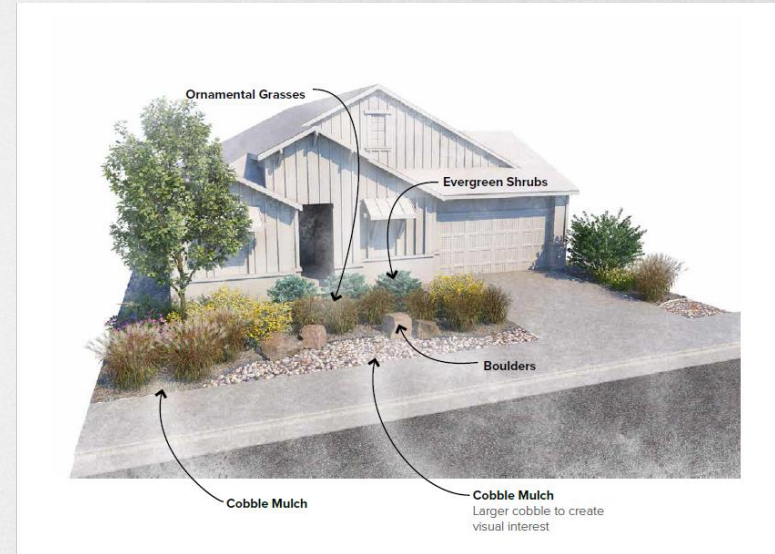




# WEMP

## KEY GOALS

- Implement Advanced Metering Infrastructure (AMI)
- Implement new ColoradoScape Ordinance
- Expand and incentivize graywater systems
- Relocate / expand demonstration garden at Ray Waterman
- Implement requirement for 0.80 gpf toilets, all new construction
- Expand irrigation criteria to include master valves and flow sensors
- Continue to evaluate alternative turf types
- Evaluate hiring of a landscape designer for our customers
- Identify new technologies for finding leaks in our distribution system



# WEMP

## RECOMMENDATIONS

- Castle Rock Water Commission
  - ✓ Voted 7-0 to recommend approval
- Staff
- **QUESTIONS?**



ColoradoScape Renovation (Castlewood Ranch)



I MOVE TO APPROVE RESOLUTION NO. 2023-028 AS INTRODUCED BY TITLE

ALTERNATE MOTIONS

I MOVE TO APPROVE THE RESOLUTION AS INTRODUCED BY TITLE, WITH THE  
FOLLOWING CONDITIONS: \_\_\_\_\_

I MOVE TO CONTINUE THIS ITEM TO THE TOWN COUNCIL MEETING ON \_\_\_\_\_ DATE  
TO ALLOW ADDITIONAL TIME TO: \_\_\_\_\_