

**CASTLE ROCK**  
*Water*  
Securing our future drop by drop

**MUNICIPAL WATER: EFFECTIVE PLANNING FOR LONG-TERM GROWTH**  
COLORADO MUNICIPAL LEAGUE ANNUAL CONFERENCE  
JUNE 19, 2019

TOWN OF CASTLE ROCK

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**CASTLE ROCK, CO**

Long-Term Water Resources Projects

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**BIG PICTURE PLANNING & POLICIES**

- 2030 Comprehensive Master Plan
- 2016 Water Resources Strategic Master Plan
- 2015 Water Efficiency Master Plan
- Town Code
  - Annexation Policies
  - System Development Fees
  - Development Specific WEP
  - Criteria Manual References

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**PROCESS**

- Project Applications
  - Development Agreements
  - Water Bank Establishment
  - Entitlement Limits
- Site Development Plans / Construction Drawings / Platting
  - Landscape review
  - Irrigation systems
  - Water Efficiency Plan
- Implementation
  - Water Bank tracking
  - Landscape/Irrigation System inspections / permits
  - Irrigation budgets – area and plant type

Water Demand Projections

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**LANDSCAPE TRANSFORMATION**

Coloradoscape: A natural landscape, comprised of low to very-low water use plant material, which blends in with the native Castle Rock landscape. Plant material must be maintained in its natural, native form. This landscaping utilizes a combination of hardscape and landscape materials, providing a variety of colors, textures, sizes, shapes, and seasonal interest.

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**LANDSCAPE TRANSFORMATION**

Partnership with our Parks Department:

- Castle Rock Water financed four new turf baseball fields - \$2.1M
- Parks pay back investment over time using savings in outdoor watering
- Excess smartscapes rebates applied at end of each year
- Turf extends programming time for the fields

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## LANDSCAPE REGULATIONS

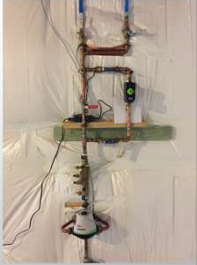
- Sets rules for new development
- Focus on Coloradoscapes
- Peak demand management
- New requirements in 2018
  - Kentucky Bluegrass not allowed for new residential
  - Smart irrigation controllers for residential new
  - Fee & testing required for professionals to be registered
  - Irrigated turf not allowed on islands, medians, etc.
  - Drip irrigation of native species is acceptable
  - Expanded turf limitations on new lots



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## DEVELOPMENT SPECIFIC WATER EFFICIENCY PLANS

- Required for new annexations
- Encouraged for existing entitled areas
- Incentivized with system development fees
- Components
  - More efficient plumbing fixtures
  - Customer driven advanced monitoring, leak detection, etc.
  - Focus on Coloradoscaping (little to no turf – drought resilient)
  - Home owner education
  - Third party verification
  - Water budgets tied to house and landscape design



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## EXISTING CUSTOMERS AND LAND USE

- Water Use Management Plan
  - Approved annually
  - Watering schedules since 1985 – May to September
  - No watering 8 AM to 8 PM
- Requirements updated in 2018 for the WUMP
  - 5-year expiration for Water Wiser exemption
  - Non-residential irrigation, fixed watering schedule
  - Irrigation exemption duration revised
  - Irrigation exemptions not issued or applicable in July
  - Non-residential violation surcharges increased
  - Registration requirements expanded




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## EXISTING CUSTOMERS AND LAND USE

- Water Budget Rate Structure Updates
  - Outdoor landscaped areas updated for Non-Residential Customers
  - Budgets reflect updated areas (flyover in 2018)
  - Outdoor budgets will use landscaped area and plant type for Non-Residential Customers
  - 2019 learning year with new budgets – 2020 new budgets impact actual water use
  - Residential Customers will incorporate plant type in budgets in future years
- Rate Increases for Outdoor Watering
  - 4% in 2019
  - 7% in 2020

### Water Budget Adjustment - 2020



Blue Bar: 2019 adjusted budget  
Orange Bar: 2019 adjusted budget  
Orange Line: Actual 2018 usage  
Black Line: Actual 2019 usage



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## EXISTING CUSTOMER REBATE PROGRAM

- Approved annually
- Funded primarily from surcharges
- Key Program Changes for 2018 & 2019
  - Rain sensor rebate discontinued
  - Residential SmartScape rebate increased to \$1.10 per sf removed
  - Non-Residential SmartScape Renovation
    - \$1.10 per sf removed
    - 1,500 sf minimum; 15,000 sf maximum
    - Funded to \$100,000



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