Baca Grande

Water and Sanitation District

Water and Wastewater Utility Financial Plan and Rate Study

March 27, 2020

Presented by Andrew Rheem, Senior Manager



Agenda

- Project Overview
- Financial Plan Overview and Projection Assumptions
 - Enterprise Fund Status and Capital Funding
- Water Fund Financial Plan and Results
- Wastewater Fund Financial Plan and Results
- Scenario Summary Results
- Combined Typical Residential Monthly Bills and Survey Comparison
- Recommendations
- Discussion and Next Steps



RAFTELIS

- Who we are:
 - Leading wet utility consultants in the country and in Colorado
 - Provide a range of financial, rate and tap fee services to the water, wastewater and stormwater utility industry
 - Recent studies completed for Pueblo, Cañon City, Idaho Springs, Platteville, Mead, Fort Morgan, Steamboat Springs, Mt. Werner Water & Sanitation, Mt. Crested Butte Water & Sanitation, Woodmoor Water & Sanitation District
- Registered municipal advisors





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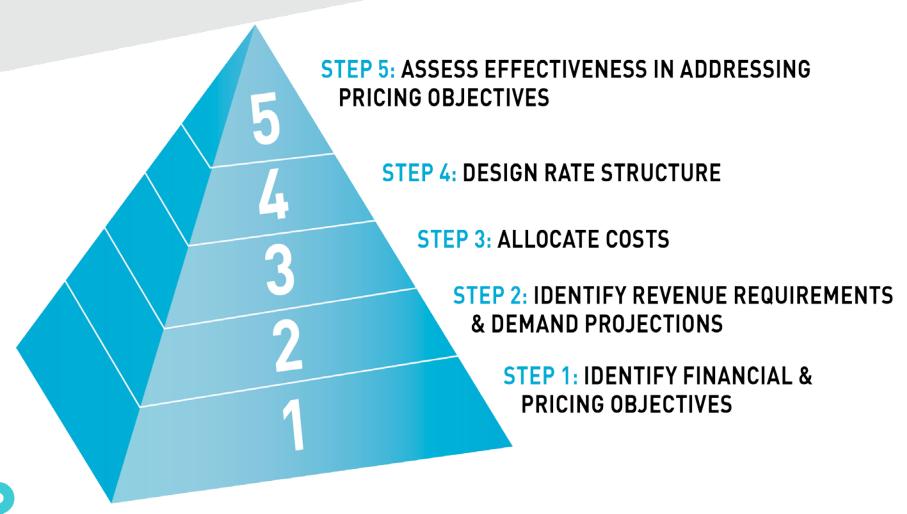


Ground Rules for Today

- 1. Stay mentally present
- 2. Listen with an open mind
- 3. Stay focused on this topic
- 4. Attack the problem, not the person
- 5. One person talking at a time



Rate Setting Process



Financial Planning Overview

- Separate water and wastewater funds for rate setting
 - > 50%/50% shared expenses
 - 100% for others (e.g., treatment plant, raw water)
 - Debt service by debt issue
- Project the 2019 2028 revenues and expenses
 - Operations and maintenance (O&M) expenses
 - Capital expenses and external capital funding
 - Existing annual debt service
 - Resulting annual debt service
 - Availability of service fees and miscellaneous non-rate revenues
 - Property and specific ownership taxes and transfers from the General Fund



Prudent Utility Financial Planning

- Revenue sufficient to maintain the financial stability of the water and wastewater enterprises and:
 - Fund annual O&M expenses, debt service payments and capital improvements
 - Exceed annual debt service coverage ratio targets with adequate revenues
 - Exceed annual operating and capital reserve targets with adequate reserves



DSC Ratio

DSC ratio is a legal requirement of most loans:

(Annual Revenue* – Annual O&M Costs)
Annual Debt Service*

- Existing tax-backed debt does not require a DSC ratio and not part of this calculation
- State Revolving Fund (SRF) loans require a minimum of 110%
- U.S. Department of Agriculture Rural Development (USDA-RD) loans do not require DSC, so 100% is the minimum
- Rate setting recommendation target DSC ratio of 125% for new debt



^{*} Excludes Property taxes revenue transfers and amounts for debt service as well as existing General Obligation debt service.

Cash Reserves Targets

- Working capital reserve
 - Water: 90-days or 25% of annual O&M
 - Wastewater: 60-days or 17% of annual O&M
- No capital reserve today
- USDA-RD requires a "short lived asset reserve" that varies for each entity
 - The capital reserve could meet this purpose
- Debt service reserves equal to one annual debt service payment may also required
 - USDA-RD: reserve may be funded over 10 years
 - > SRF: requires it to be funded fully right away
- Recommend a capital reserve be phased-in
 - 2021: \$50,000 for water and \$50,000 for wastewater
 - 2028: \$250,000 for water and \$250,000 for wastewater



Common Utility Cash Reserves

- Operating Reserve
 - > 15% to 25% of O&M
- Debt service reserve
 - Requirement of debt issue
- Rate stabilization fund
 - Defined in bond resolution

- Capital reserve
 - Fixed Amount or
 - Tied to Capital projects
- Revenue reserve
 - Percent of revenues
- Emergency reserve
 - Fixed Amount or
 - Tied to specific asset



May be represented as days cash on hand

Forecast Assumptions Revenues

- Growth Rate of 2% annually
- Property and specific ownership taxes 2% annually
- Availability of service fees 2% decrease annually
 - As properties develop, they stop paying this
- Misc. revenues of 1% annually
- Interest income of 1% annually
- Town of Crestone wastewater rate increase
 - 2%in 2020 and 2021
 - Increases like other customers starting in 2022



Forecast Assumptions Expenses

- Purchased water decreasing effective June 2020
- Inflation factors O&M and capital of 3%
- General Fund transfer decreasing
 - > Totaled \$567,000 in 2019
 - > Totals \$465,514 in 2020
 - Totals \$200,000 in 2021 and beyond
- Property and ownership taxes and ASF are also transferred for voter approved general obligation debt service
- 30% of water revenues in 2021 from local taxes
 - Down from 62%in 2020
- 48% of wastewater revenues in 2021 from local taxes
 - Down from 80% in 2020



Enterprise Status

- District Enterprise Fund do not currently meet Tax Payers Bill of Rights (TABOR) limitation
 - Limits 10% of revenues from Colorado and/or local taxes
 - 2020 budget reduced to \$200,000 for capital
- Voter approval required to issue future debt without Enterprise Fund
- Enterprise based on previous year
 - Without transfers, rates are higher
 - SRF grants largely from Colorado taxes
- Revenue-backed debt approved by voters is likely the approach which mitigates future rate increases



Capital Funding Considerations

- Low-interest rate loans through the USDA-RD and/or the Colorado SRF to minimize borrowing costs of future debt
- SRF loans are the "default" external debt
 - 3% interest rate
 - 30 year repayment term
- Grants to maximize external funding of the CIP
 - Colorado Water Conservation Board for meter replacement and/or water loss reduction
 - Department of Local Affairs (DOLA) grants and/or USDA-RD for system improvements
 - Others?



Current Rates

| Tap or Meter Size | Sewer Base Rate | Water Base Rate | Minimum / Unbilled | Tier 1 | Tier 2 |
|----------------------|--------------------|--------------------|-----------------------|---------------|---------------|
| Volume Rate | N/A | N/A | \$0.00 / kgal | \$1.50 / kgal | \$3.00 / kgal |
| ¾-inch | \$28 | \$28 | <4,000 | >4,000 | >10,000 |
| 1-inch | \$56 | \$56 | <8,000 | >8,000 | >20,000 |
| 1½-inch | \$140 | \$140 | <20,000 | >20,000 | >50,000 |
| 2-inch | \$224 | \$224 | <32,000 | >32,000 | >80,000 |
| 3-inch | \$448 | \$448 | <64,000 | >64,000 | >160,000 |
| 4-inch | \$1008 | \$1008 | <144,000 | >144,000 | >360,000 |

- Availability of Service Annual Fee = \$150
 - Charged on unimproved property if the property has infrastructure for water and sewer service within 100 feet of the property line
 - Used to repay debt incurred for capital infrastructure

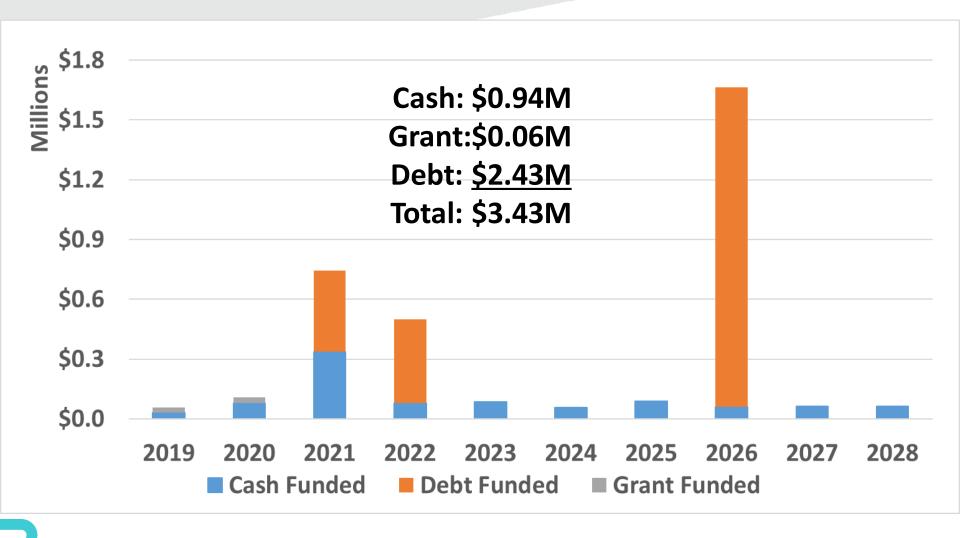
Water Fund Financial Plan

Water CIP – Major Projects 2020-2028

- Water conservations / meter replacement: \$0.30M
- WTF improvements: \$0.40M
- Booster station improvements:\$0.40M
- Distribution system improvements:\$1.15 M

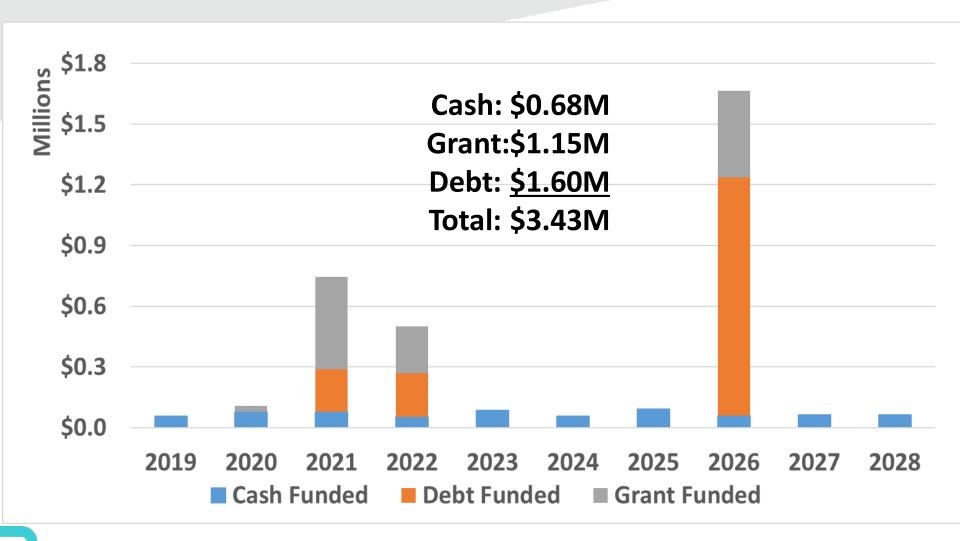


Water Fund Capital Projects 2019 through 2028 (Inflated \$'S) Base Case No Grants

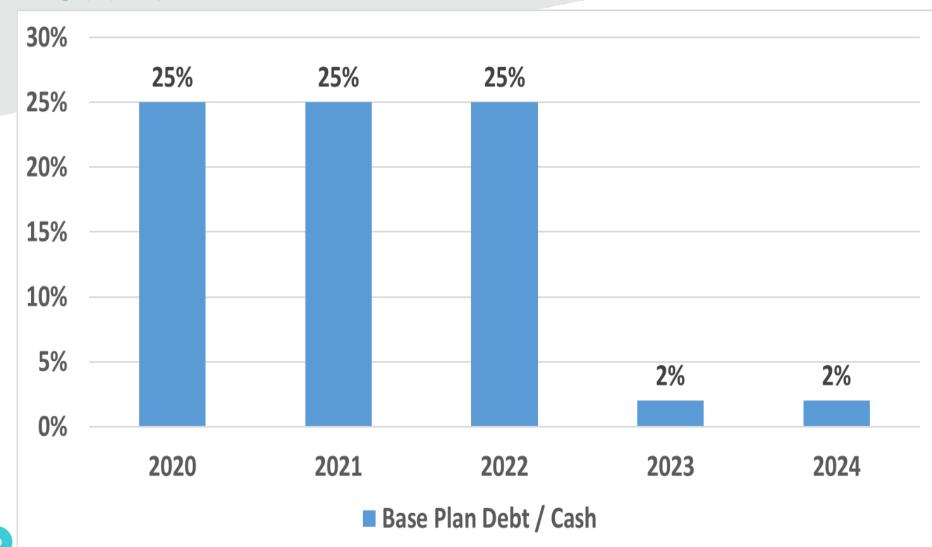




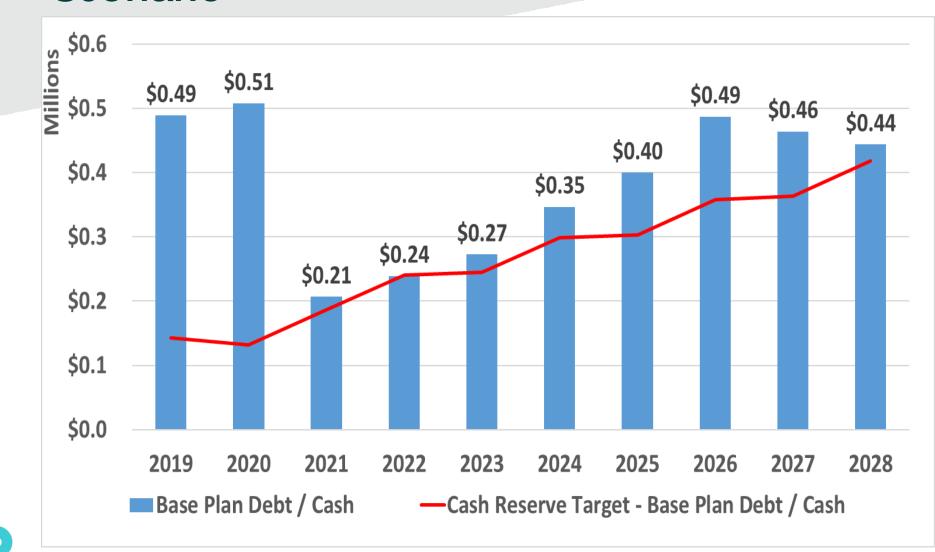
Water Fund Capital Projects 2019 through 2028 (Inflated \$'S) Base With Grants Scenario



Projected Rate Increases: Base Case Scenario

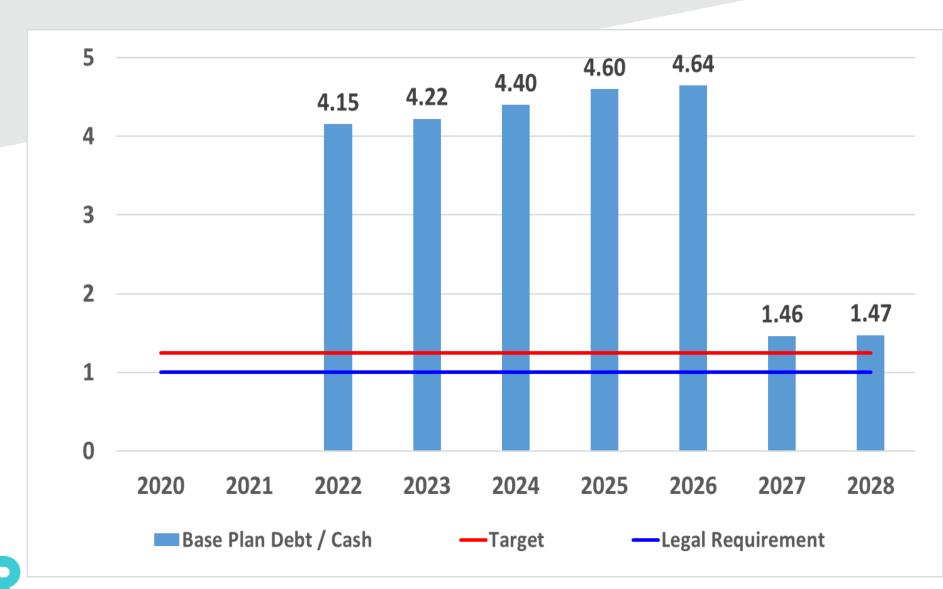


End-of-Year Cash Balances: Base Case Scenario

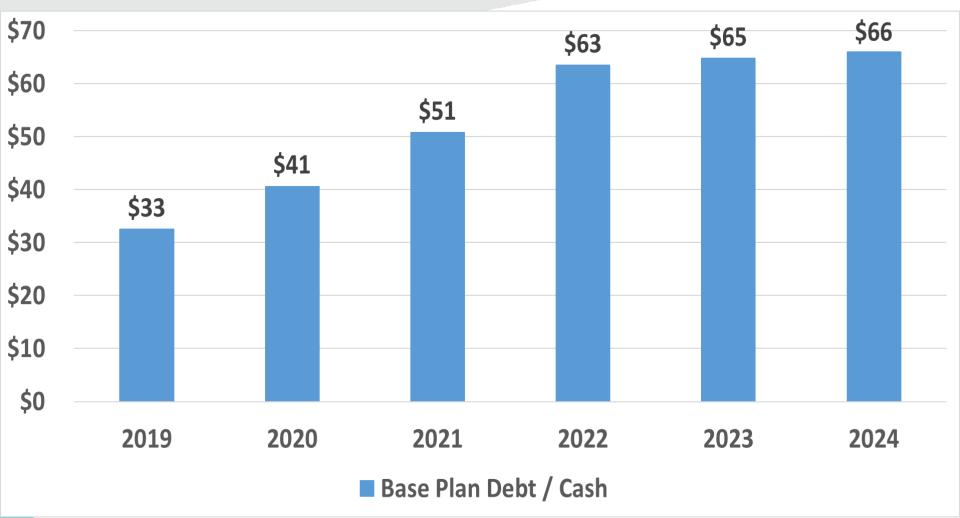




DSC: Base Case Scenario



Typical Monthly Residential Water Bill (1) Base Case Scenario





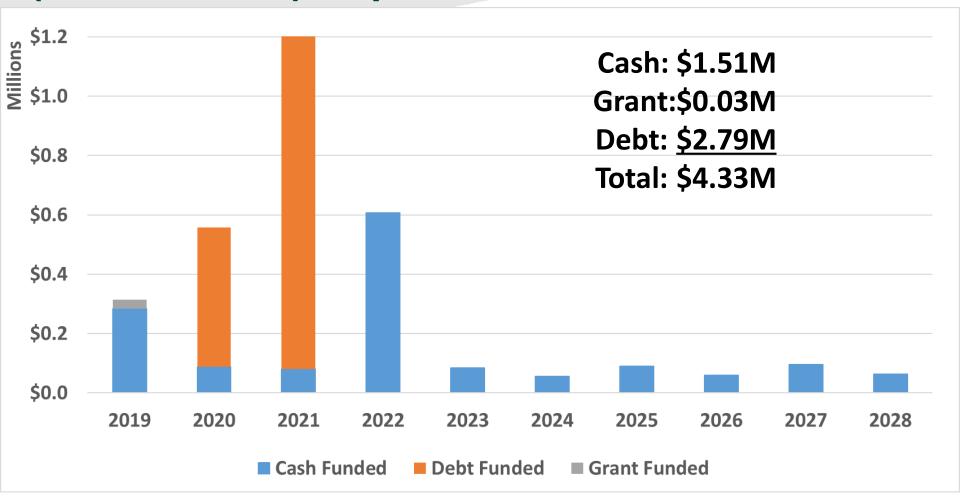
Wastewater Fund Financial Plan

Wastewater CIP – Major Projects 2020-2028

- WWTF rerating or expansion \$3.2M
 OR
- WWTF rehabilitation projects \$1.6M
 - Piping from EQ Basin to SBR: \$46,350
 - New aeration system: \$573,710
 - > Automated WAS pumping: \$347,110
 - > Electrical/ I&C upgrades: \$330,292
 - Replacing/improving the decanting process: \$268,408

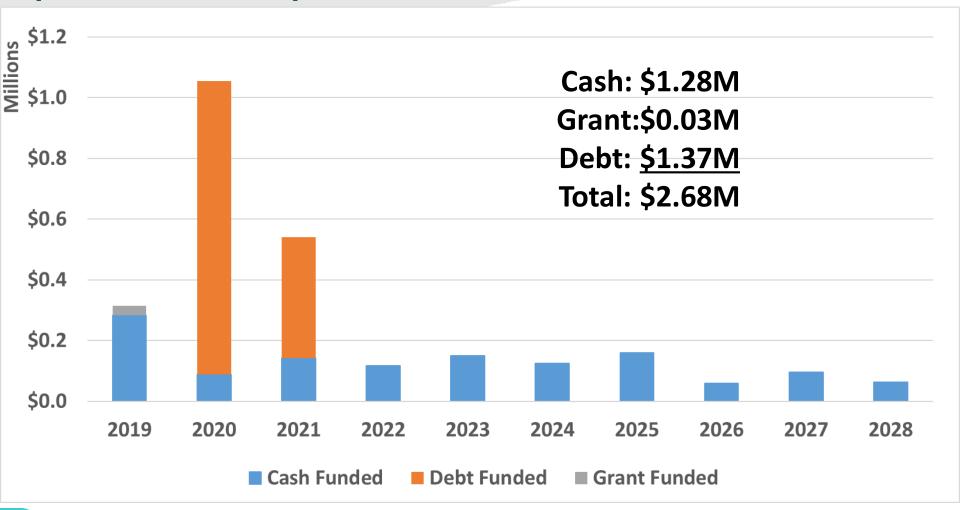


WWW Fund Capital Projects 2019-2028 (Inflated \$'S) Expansion No Grants



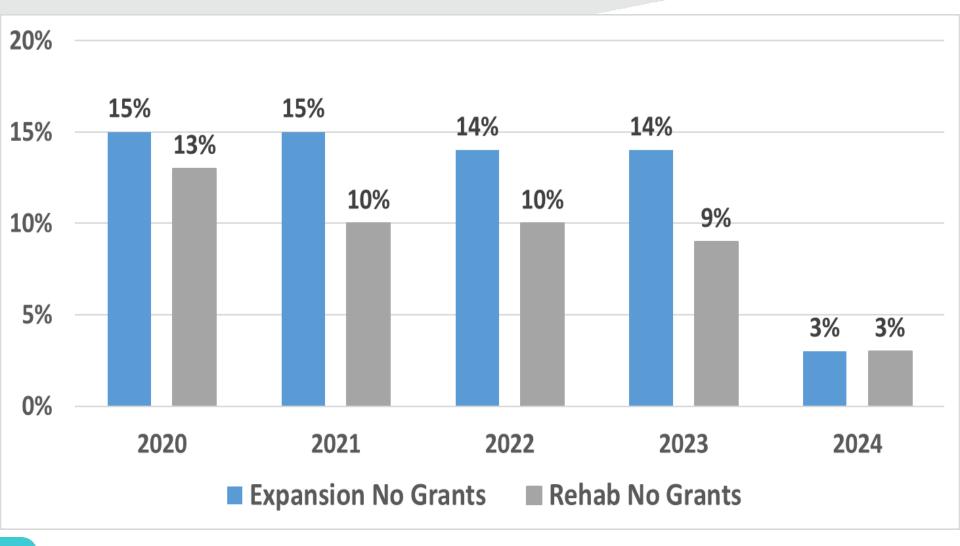


WW Fund Capital Projects 2019-2028 (Inflated \$'S) Rehab No Grants



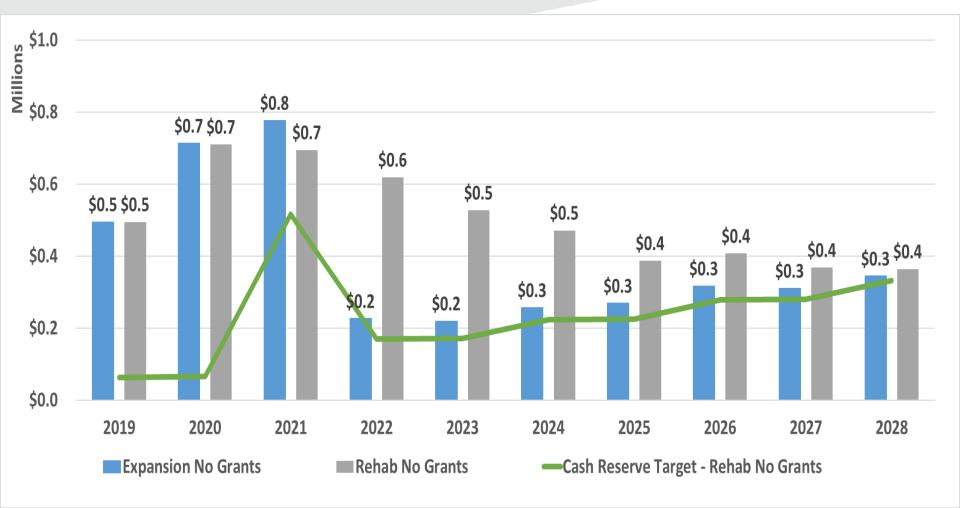


Projected Rate Increases: Base Case Scenarios

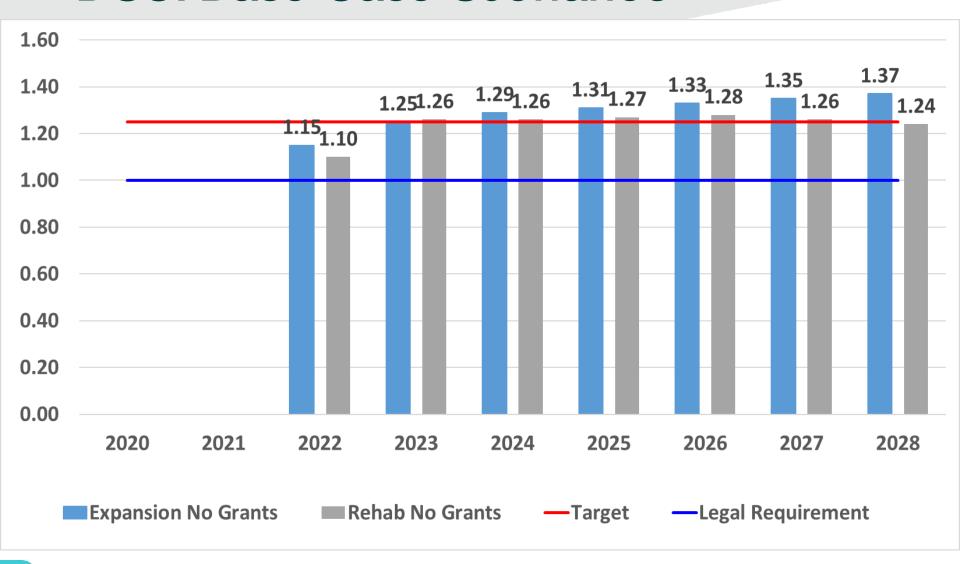




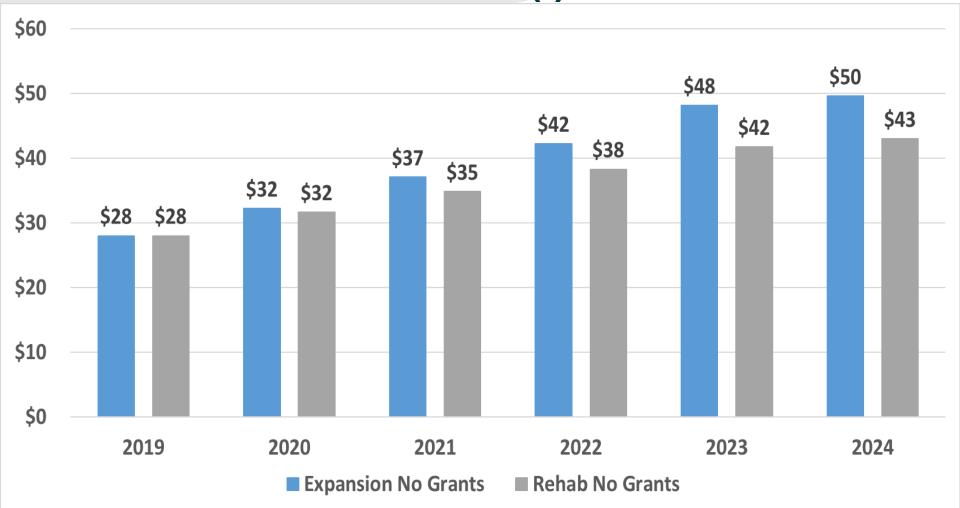
End-of-Year Cash Balances: Base Case Scenarios

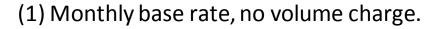


DSC: Base Case Scenarios



Projected Monthly WW Residential Bills: Base Case Scenarios (1)





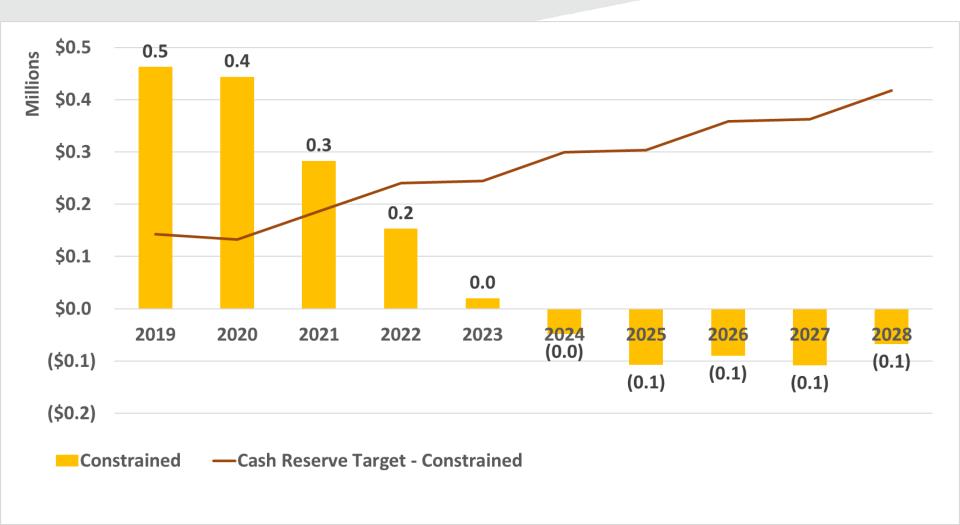
Capital Funding Scenarios

Water Financial Planning Scenarios

- 1. Base case CIP with future debt and no future grants.
- 2. Base case CIP with future debt and future grants.
- 3. Constrained CIP under constrained rate revenue adjustments with future debt and no future grants.
- 4. Base case CIP with no future debt or future grants.

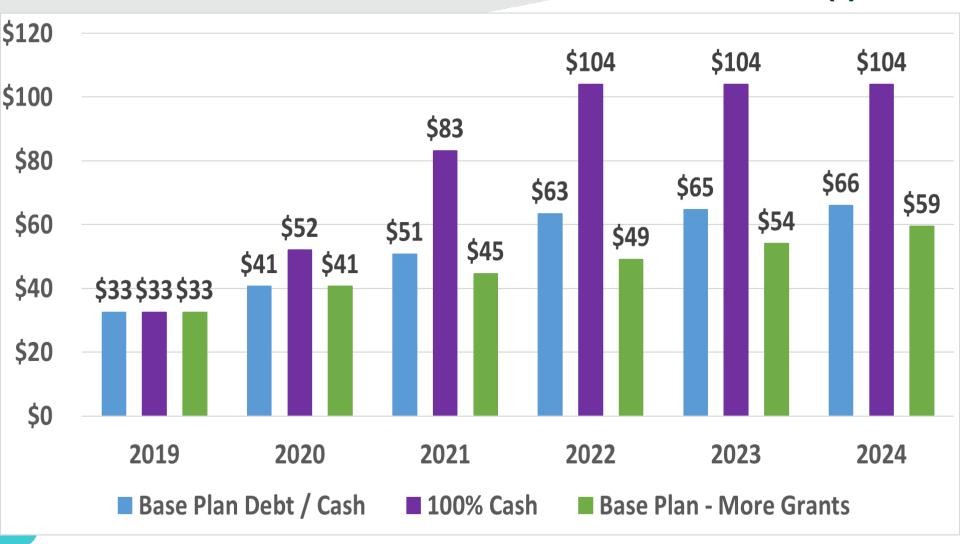


End-of-Year Cash Balances: Constrained

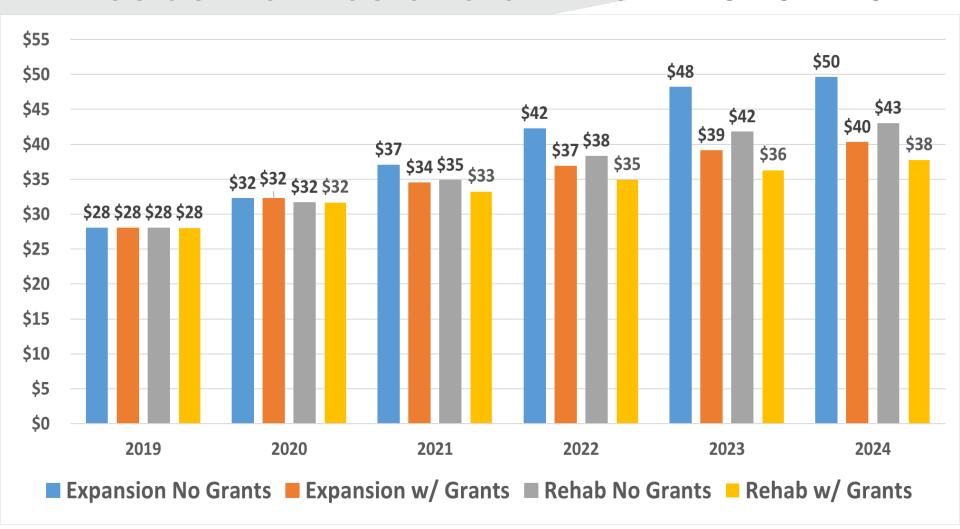




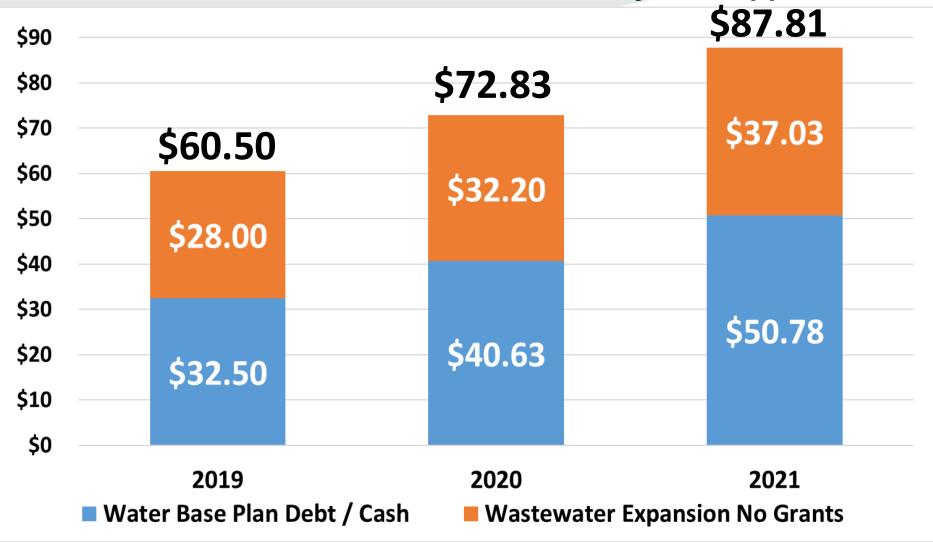
Scenario Analysis Findings – Monthly Residential Water Bills in 2020 to 2024 (1)



Scenario Analysis Findings – Monthly Residential Wastewater Bills in 2020 - 2024

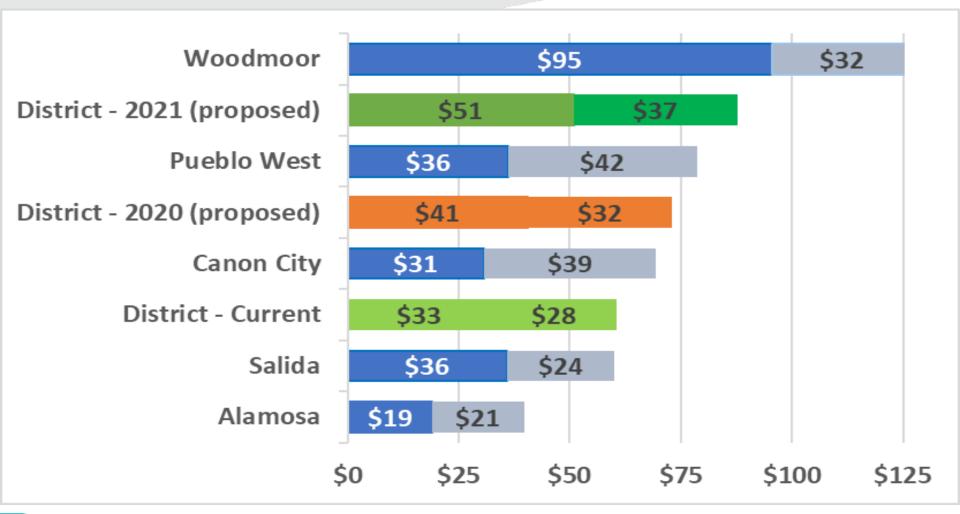


Combined Residential Monthly Bill (1)





Typical Residential Monthly Water and Wastewater Monthly Bills Compared





Recommendations

- Implement 2020 and 2021 rate adjustments under Base Case capital funding
- 2. Pursue low-interest loan and grant opportunities
 - A. Maintain General Fund Transfers of \$200,000 per year
- Continue to refine capital requirements prioritizing
 - A. Health and safety
 - B. Those that regulators will require
 - C. Those which reduce O&M and maintenance costs
 - D. Grant funded improvements
- 4. Renegotiate Crestone contract and service arrangement
 - A. Evaluate full cost recovery in lieu of inflation based increases
 - B. WWTF expansion may be delayed without Town but CIP still required to rehabilitate many facilities
 - Consider expanding District boundaries combining two wastewater systems
- 5. Complete cost of service analysis and potential rate structure changes
 - 1. Large users, Crestone, and irrigation-only customers
 - 2. Evaluate fixed and volume-based revenue recovery for both water and wastewater (e.g., volume based sewer recovery)



Discussion

Ongoing Steps

- Refine capital projects and prioritization
- Pursue operational efficiency and O&M cost reductions
- Aggressively pursue low-interest loan and grants
- Renegotiate cost recovery with Crestone
- Phase 2 cost-of-service, rate design and tap fee study planned for 2021



Thank you!

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