Rates and Revenues in a Difficult Economic Environment

WESTCAS 2013 ANNUAL CONFERENCE



Agenda

- Importance of Financial Planning and Financial Policies
- Financial Planning Tools
- Case Studies
 - Mesa Consolidated Water District
 - Alameda County Water District
 - Santa Cruz Water Department

Financial Challenges of Managing a Water and Wastewater System

A FINANCIAL MODEL CAN BE A TOOL TO NAVIGATE THROUGH THESE CHALLENGES

Properties of Utility System

- Capital intensive
- Highly fluctuating capital cost
- Unknown liability
- Increasing regulatory demand



Political Acceptance on Rates

- Rate stability
- Affordability
- Equity
- Environmental stewardship

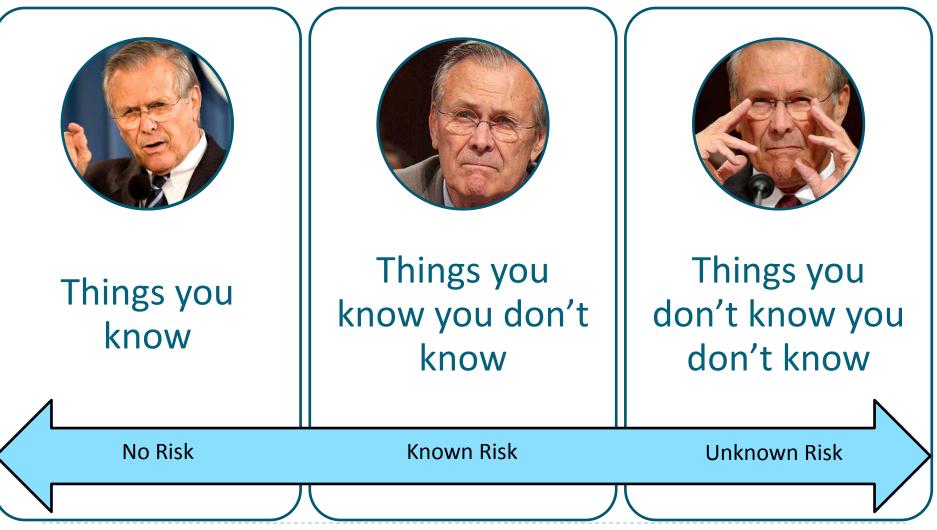
Why Financial Planning?

- Financial Sufficiency for the Short and Long-Term
 - Short-term operating expenses
 - Anticipated capital expenditures
- Preparation for the Future
 - Identify known facts and variables
 - Anticipate unknown variables and evaluate associated risks

Tool for Agencies

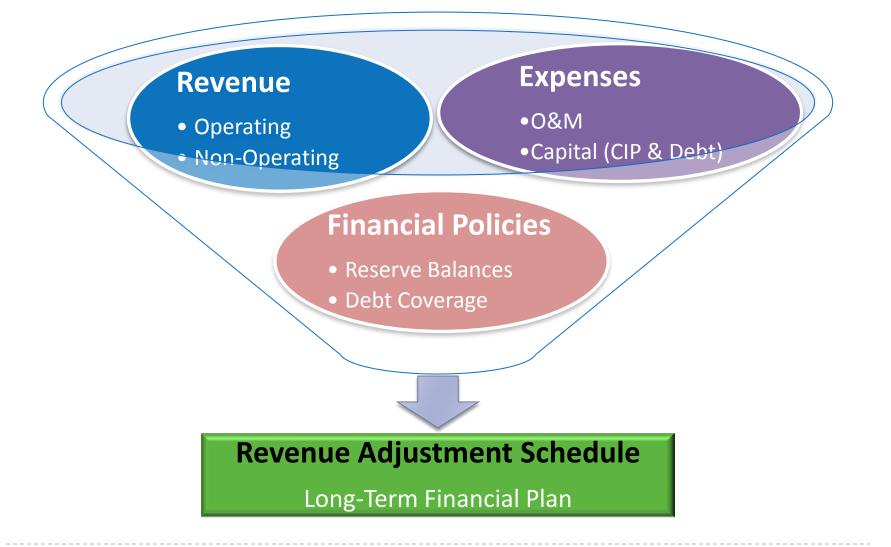
- Minimize rate fluctuations from year to year
- Assess risks and develop financial policies, budget goals and objectives

Risk Assessment According to Donald Rumsfeld



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Key Financial Plan Components



Financial Policies At A Glance

- Importance of Financial Policies
 - To maintain financial solvency
 - Provide a basis for coping with fiscal emergencies (revenue short-falls, asset failure, emergency etc ...)
 - To provide guidelines for sound financial management with an overall long-range perspective
 - To enhance financial management transparency
 - Improve public's confidence and elected officials' credibility

What Are Your Policy Objectives?



Financial Policies should be determined by each agency based on what the agency values most

Types of Reserves

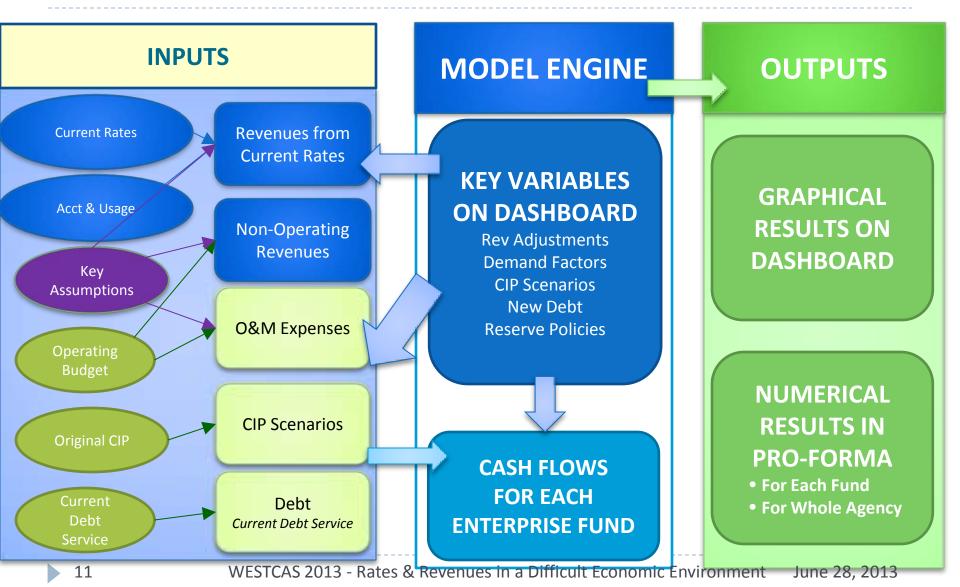
- Operations and Maintenance (O&M)
 - Used to provide working capital to support the operation, maintenance and administration of the water and wastewater utilities
 - Ex. 90 days (25%) of Operating Budget
- Rate Stabilization
 - Used to smooth rate increases caused by decreasing sales or unexpected increases in third party cost

Types of Reserves (cont.)

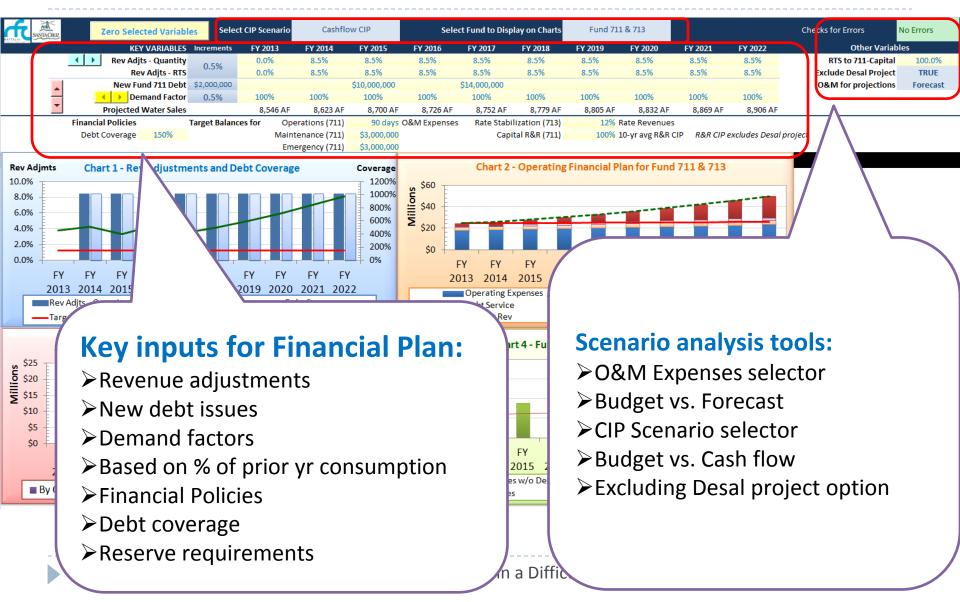
Emergency

- Maintained to allow the utility to provide uninterrupted service in the event of a natural disaster or facility failure
- Capital Refurbishment and replacement (R&R): for future R&R expenditures / liabilities
 - Water is a capital intensive industry, reserve is used to ensure the maintenance of necessary infrastructure
 - Ex. % of total asset value

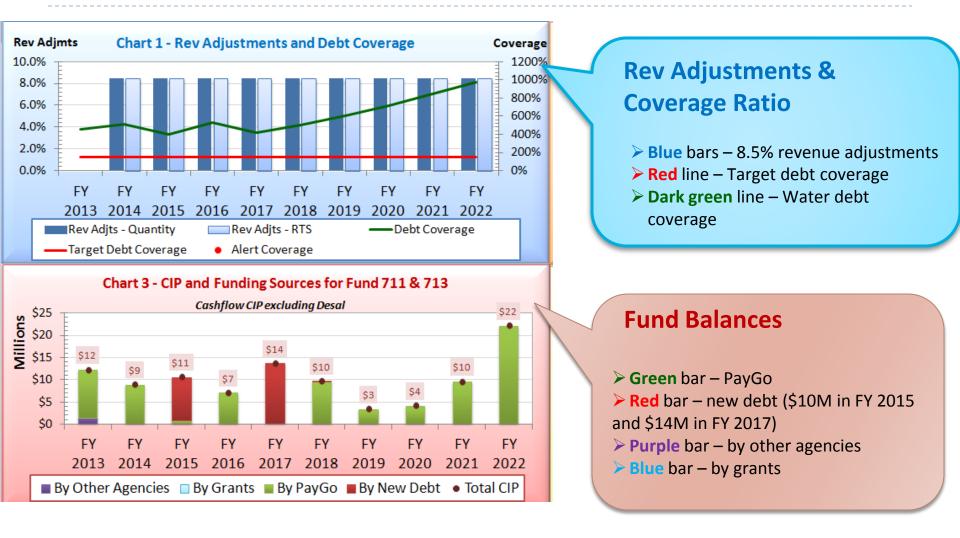
Financial Plan Model Overview



Financial Plan Dashboard Example



Financial Plan Dashboard Example



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Financial Plan Dashboard Example

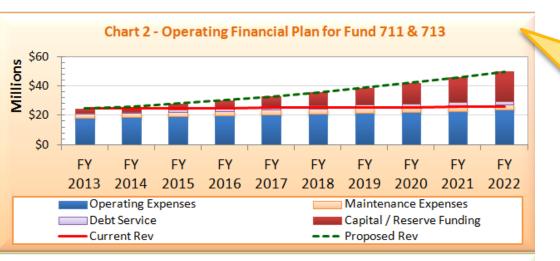


Chart 4 - Fund Balances for Fund 711 & 713

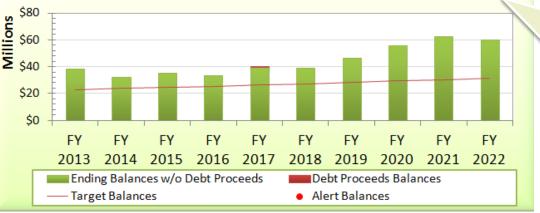


Chart 2 – Operating Financial Plan



Chart 4 – Fund Balances

 Green bar – selected fund's projected ending balances without debt proceeds
Red bar – Debt proceeds balances
Red line – target balances (360 days cash)
Red dot – alert balances when ending balances fall below target levels

Case Studies

Mesa Consolidated Water District Alameda County Water District Santa Cruz Water Department

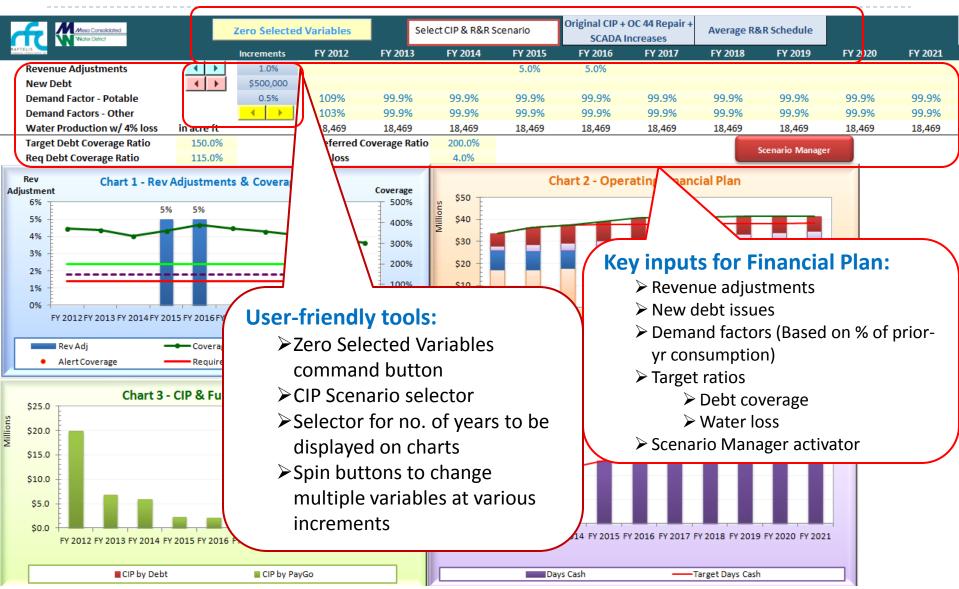
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Mesa Consolidated Water District

- Current Issues and Challenges
 - Achieving strategic goal set by the Board AAA credit ratings from all three rating agencies by FY 2016
 - 600 days cash by the end of FY 2016
 - > 200% debt coverage
 - Sufficient capital funding for 100-yr capital R&R
 - Changes in water supply costs: Imported water supply is replaced by the groundwater treated by the newly- built Colored Water Treatment Plant

Financial Plan Model

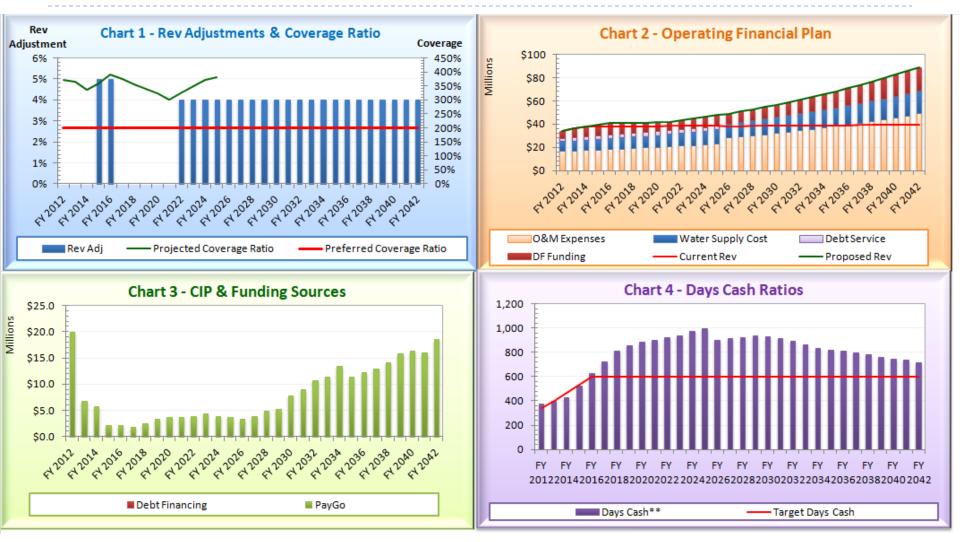
The Dashboard



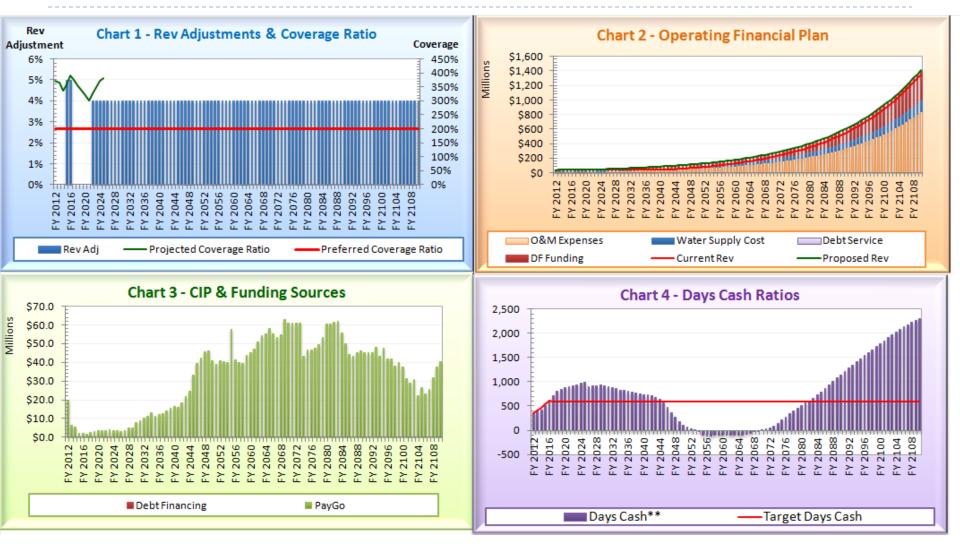
Goals of Financial Plan

- Achieve 600 Days Cash in FY 2016
- Meet required debt coverage ratios
- Maintain designated funds (DF) at minimum target levels

30-year LRFP



100-year LRFP

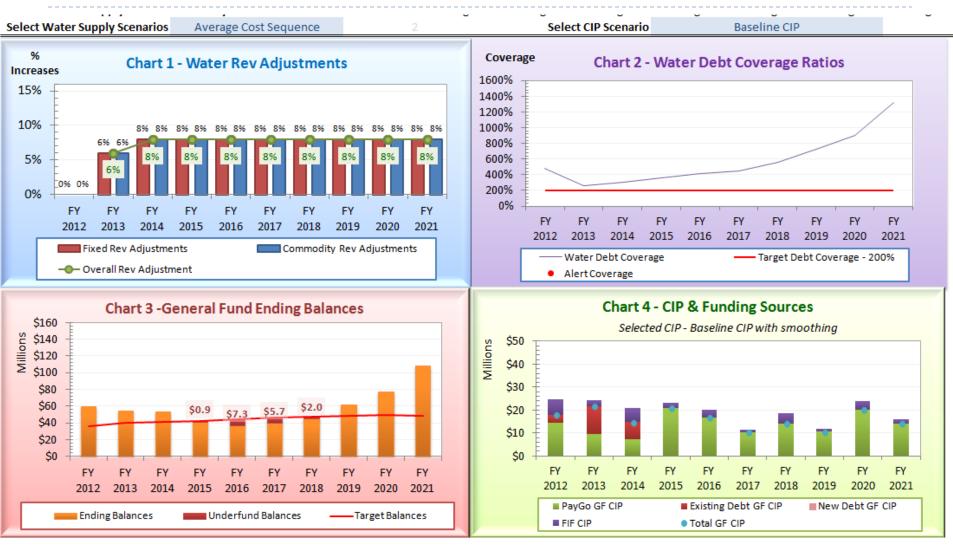


Alameda County Water District

- Current Issues and Challenges
 - Complex water supply sources and costing scenarios
 - Capital improvement uncertainties
 - Approved 25-yr CIP (Baseline)
 - Delta Fix (\$5M /yr for 30 yrs)
 - Main Replacement Program (MRP) (\$10M/yr for 30 yrs)
 - Other cost drivers
 - OPEB Funding

Baseline Scenario

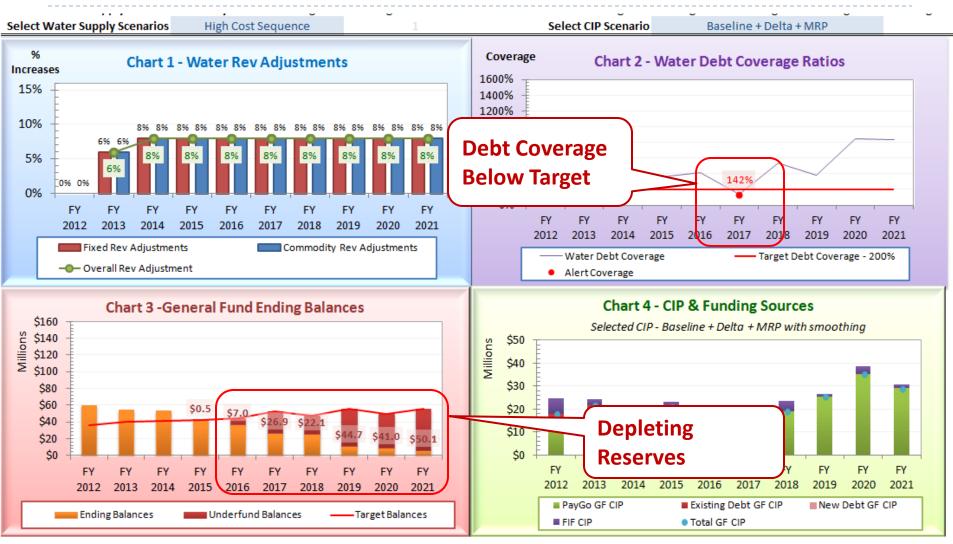
Baseline CIP + Average Water Supply Costs



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"Perfect Storm" Scenario

MRP & Delta Fix + High Water Supply Costs



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Santa Cruz Water Department

Current Issues and Challenges

- SCWD does not have a financial policy in place to mitigate risks and to cope with fiscal emergencies
- Water demand has fallen significant in the last 10 years (more than 20 percent reduction) with potential further mandatory water curtailment during severe drought

Goals of the Study

- Develop and evaluate financial policy options to maintain long-term financial solvency
- Assess risk profile of the financial policy options

Case Study

Santa Cruz Water Department – Evaluated Financial Policy Options

	"Ideal" Financial Policy	"Practical" Financial Policy
Minimum Debt Coverage Ratio	150 %	150 %
Days Cash Target	360 days	175 days

Financial Plan and Financial Impact Analyses for Financial Policy Options

- To achieve the target days cash as set by the two financial policies, the Department needs to increase water rates and issue new debt
- The table below shows the different rate increases and debt issuances

Financial Plan	"Ideal" Financial Policy	"Practical" Financial Policy
New Debt Issues	\$10M in FY 2015	\$10M in FY 2015
	\$14M in FY 2017	\$22M in FY 2017
		\$22M in FY 2021
Revenue Adjustments		
RTS	8.5% per year (FY 2014 – FY 2022)	5% per year (FY 2014 – FY 2022)
Quantity	8.5% per year (FY 2014 – FY 2022)	5% per year (FY 2014 – FY 2022)

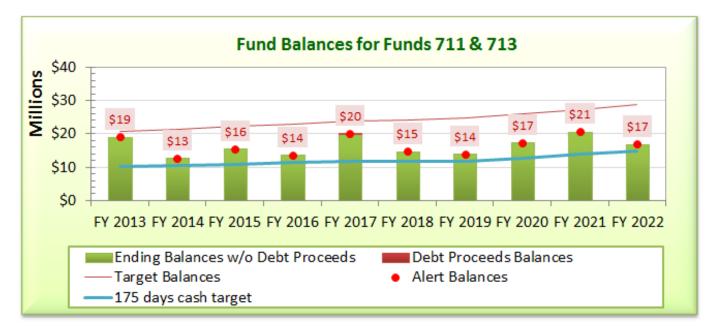
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Risk Assessments

20 Percent Per Year Reduction in Demand in FY 2018 & FY 2019

Under "Ideal" Financial Policy

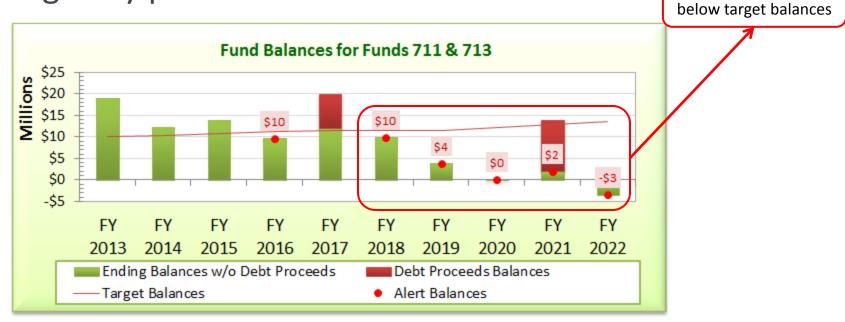
- Reserves are below ideal target but well above the 175 days cash target even with the drop in water demand
- No additional rate increases necessary



Risk Assessments

20 Percent Per Year Reduction in Demand in FY 2018 & FY 2019

- Under "Practical" Financial Policy
 - In order to maintain necessary and healthy fund balances, rates need to be raised higher than originally planned



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Credit Rating Criteria on Liquidity

- Debt rating agencies such as Standard & Poor's & Fitch place an importance on liquidity
- Liquidity is described as:
 - Unrestricted cash balances available to meet working capital needs
 - Unrestricted cash balances include all cash and investments dedicated for working capital, rate stabilization or R&R needs
 - Criteria measures in Days Cash
 - Days Cash = Unrestricted balances / average daily O&M expenses for the year

Median Ratings	Days Cash on Hand
BBB	226
А	239
AA	354
AAA	415

Debt Coverage Requirements

- Debt Coverage = Ratio of cash available for debt service to interest and principal payments
 - Popular benchmark used in measuring an entity's ability to issue new debt
 - Typical debt coverage equation = (Net Revenues / Debt Service)
- Criteria used by Standards & Poor's (S&P) for credit ratings:
 - Insufficient Ox to 1.00x
 - Adequate 1.01x to 1.25x
 - Good 1.26x to 1.50x
 - Strong >1.50x