

Subcommittee on Long-Term Regional Planning Processes and Business Modeling

# Climate Adaptation Master Plan for Water – Draft Year One Progress Report

Item 3b April 24, 2024

### Item 3b

Climate Adaptation Master Plan for Water -Draft Year One Progress Report

#### Subject

Climate Adaptation Master Plan for Water – Draft Year One Progress Report

#### Purpose

The CAMP4W Draft Year One Progress Report documents progress since February 2023 and sets up the next steps for 2024. Today's discussion is focused on the next steps for 2024 laid out in Sections 4 through 6 of the Report. This is preparation for a potential concurrence action at the May Finance and Asset Management Board Committee meeting.

## April 24 CAMP4W Task Force

# Agenda

- 1) Review Draft Year One Progress Report Sections 3-6
  - Sections include
    - Development of Adaptation Strategies
    - Business Model and Affordability
    - Policies, Initiatives and Partnerships
    - Adaptive Management
- 2) Discuss proposed Adaptive Management Approach
- 3) Discuss the Business Model components, scope and process
- 4) Review Next Steps



Climate Adaptation
Master Plan for Water

Year One Progress Report Sections

CAMP4W Year One Progress Report April 2024 DRAFT

2024 Next Steps



Section I: Background, Need and Outcome

Section 2: Climate Decision-Making Framework

Section 3: Development of Adaptation Strategies

Section 4: Business Model and Affordability

Section 5: Policies Initiatives and Partnerships

Section 6: Adaptive Management



Climate Adaptation
Master Plan for Water

Year One Progress Report Sections

CAMP4W Year One Progress Report April 2024 DRAFT

2024 Next Steps



Section I: Background, Need and Outcome

Section 2: Climate Decision Making Framework

Section 3: Development of Adaptation Strategies

Section 4: Business Model and Affordability

Section 5: Policies Initiatives and Partnerships

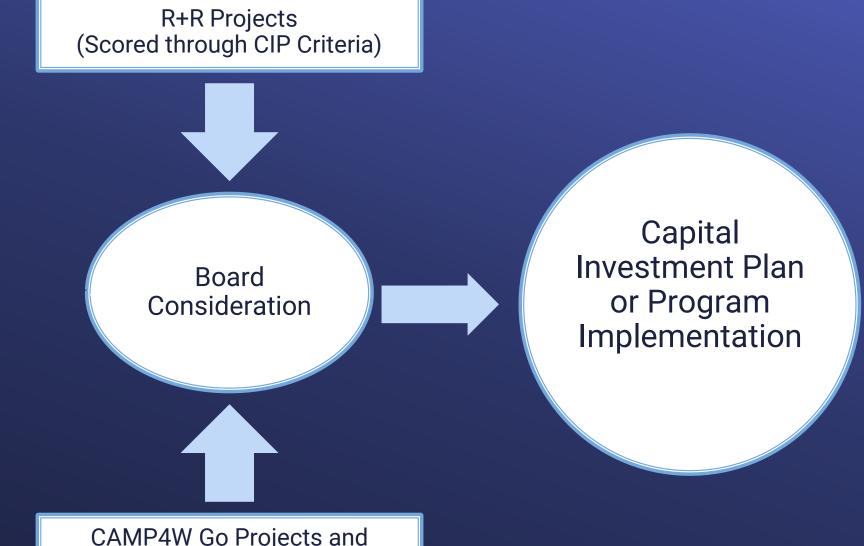
Section 6: Adaptive Management



Section 3: Development of Adaptation Strategies

Determining CAMP4W Consideration





CAMP4W Go Projects and Programs (Scored through CAMP4W Criteria)

# Section 3: Development of Adaptation Strategies

Determining CAMP4W Consideration



Potential questions where a "yes" answer would mean a project or program will be considered through CAMP4W:

- Is the project or program providing a new core supply, flex supply, or storage, or is the project or program enabling a new core supply, flex supply, or storage?
- Is the project or program addressing a known vulnerability to an asset(s) and does it involve improvements beyond what would be required to perform traditional R&R for that asset?
- Does the project or program exceed a certain flow-based threshold (CFS or AFY) or cost threshold (capital or O&M cost)?

# Section 3: Development of Adaptation Strategies

Getting to Board
Deliberation

#### Does it meet criteria for CAMP4W Evaluation?

If no, goes to another process such as CIP

If yes, proceeds to CAMP4W evaluation



#### **CAMP4W Evaluation**

Extent to which it advances a Time-Bound Target

CAMP4W score based on Evaluative Criteria

Assess within a portfolio of potential investments



#### **Board Deliberation**

Assess long-range financial implications

Consider phased approach to decision making to allow adaptive management



# New Discussion Topics for Today Year One Progress Report Sections 4, 5, 6

# CAMP4W Climate Adaptation Master Plan for Water

#### Section 4: Business Model and Affordability

Identify categories of business model options, new models for financing, propose affordability support measures

#### Section 5: Policies, Initiatives and Partnerships

Identify policy areas for focus as well as potential partnership opportunities with and among member agencies and other interested parties

#### Section 6: Adaptive Management

Propose process to compile and assess data on each Signpost, compare previous assumptions with real-world conditions, refine/augment Time-Bound Targets

# Section 4: Business Model and Affordability

Business Model Focus Areas

- Identify Equity and Fairness concerns in current rates and charges, including in the treatment surcharge
- Capture the value of conservation, water use efficiency and local water resources development
- Exchange of water resources and sharing of assets between Member Agencies
- Expand regional benefits through Metropolitan co-investing in local resource development
- Provide regional support to Member Agencies for affordability strategies for their customers
- Identify additional revenue streams
- Explore mechanisms for expanding financial capacity and considering the balance between fixed and volumetric rates.



# Section 4: Business Model and Affordability Affordability Focus Areas



- Collaboration and Information Sharing
- Leverage Non-Rate Revenue
- Investment in Education and Outreach
- Policy and Program Innovation
  - **Needs Assessment and Metrics**



Section 5:
Policies,
Initiatives
and
Partnerships
Policies and
Initiatives Focus
Areas





Section 5:
Policies,
Initiatives
and
Partnerships
Member Agency
Partnerships
Focus Areas



- l) Demand Management
- 2) Surplus Water Management
- 3) Member Agency Exchange
- 4) Local Resources Program
- 5) Community Engagement
- 6) Grants and Technical Assistance



Section 5:
Policies,
Initiatives
and
Partnerships
External
Partnerships
Focus Areas



Potential External Project, Program and Policy Partners Include:

- Water suppliers and water utility trade associations
- State and Federal agencies
- Business and agricultural interests
- Community-based organizations
- Environmental organizations
- Academic institutions

Within Metropolitan's Service Area and within the Bay Delta and Colorado River watersheds



# Section 6: Adaptive Management What is Adaptive Management?

Adaptive management is a <u>structured and ongoing process</u> that:

- 1) Promotes <u>flexible decision-making</u>
- 2) <u>Tracks real-world climate impacts and trends</u> that impact water supplies and demands
- 3) Ensures inclusion of <u>up-to-date information</u>
- 4) <u>Facilitates adjustments</u> to planning assumptions and targets
- 5) Enables an iterative and informed climate adaptation plan



#### Adaptive Management Process

Planning for Rapid Change and Adjusting based on Real World Conditions

# Section 6: Adaptive Management

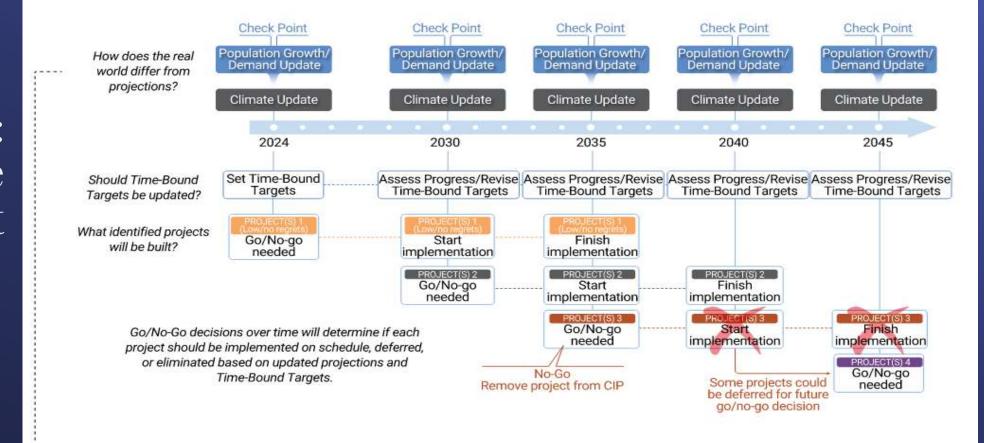




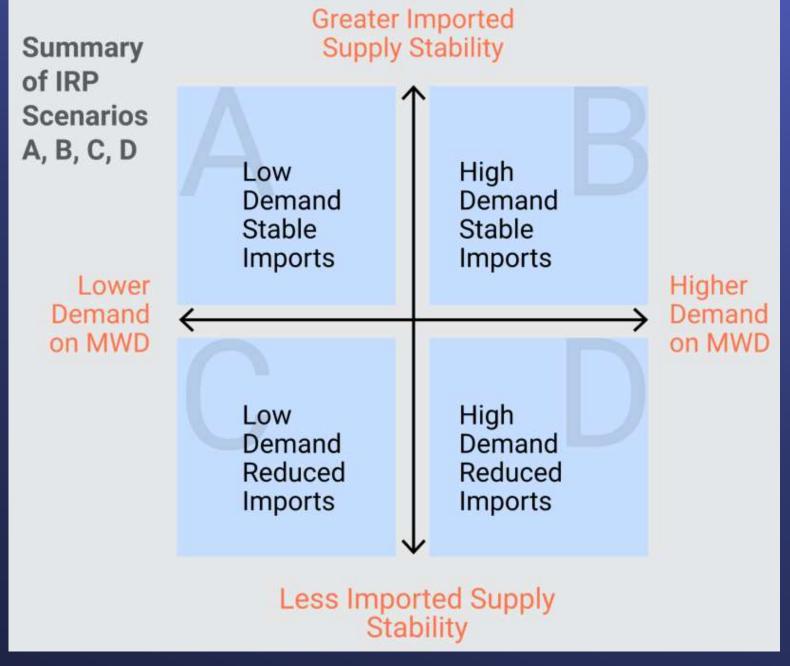
Figure 2-2. Adaptive Management Process

Signposts are the real-world

ongoing decisions

conditions being tracked, informing

The IRP scenarios will continue to be utilized and will be updated based on current realworld conditions.



#### **Proposed Signposts Metrics Examples**

Signposts should be measurable, updateable, and readily available

# Section 6: Adaptive Management

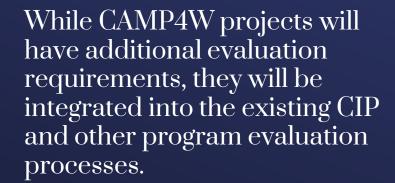
Signposting and Monitoring

DEMAND	SUPPLY	INFRASTRUCTURE	FINANCIAL
Population	Climate Change Indicators	Unexpected Shutdowns	Debt Capacity & Borrowing Costs
Regulations	Regulations	Infrastructure Loss	Capital Cost Trends
Demand Management	Storage	Emergency Response	Emergency Response Costs
Local Agency Supply	Water Quality	Power Interruptions	O&M Trends
Economy			



Institutionalizing Adaptive Management CAMP4W projects evaluated with other CIP projects and programs for inclusion in Bi-Annual Budget CAMP4W reporting, updating, and workshops will integrate into the Board's agenda

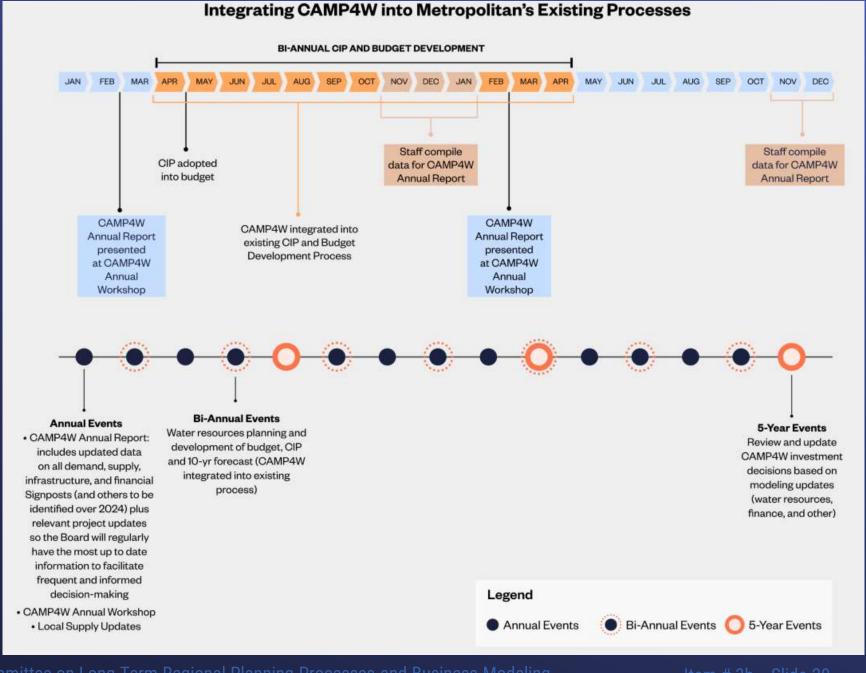
Adaptive
Management will
be an integral part
of the decision
process





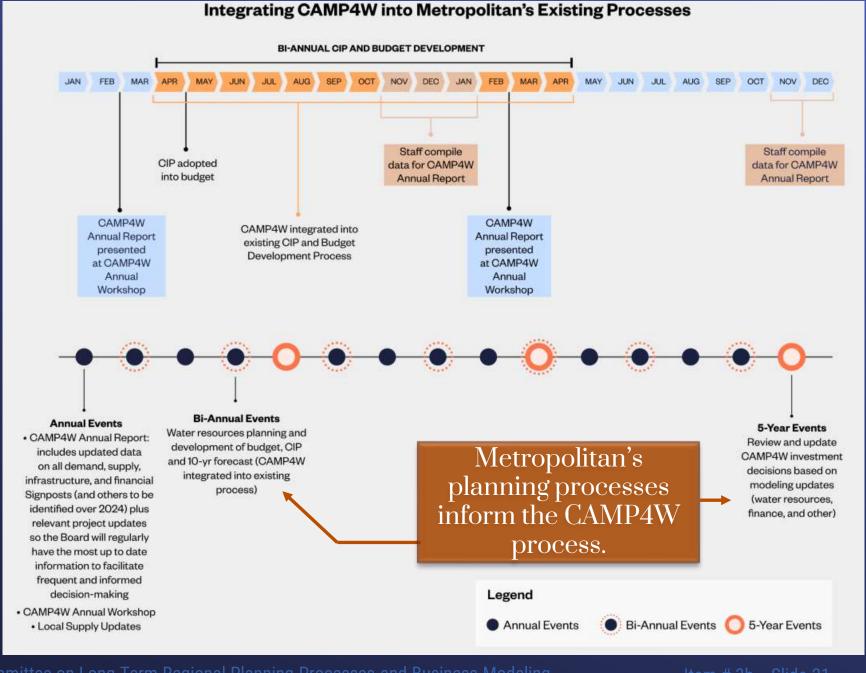
Institutionalizing Adaptive Management





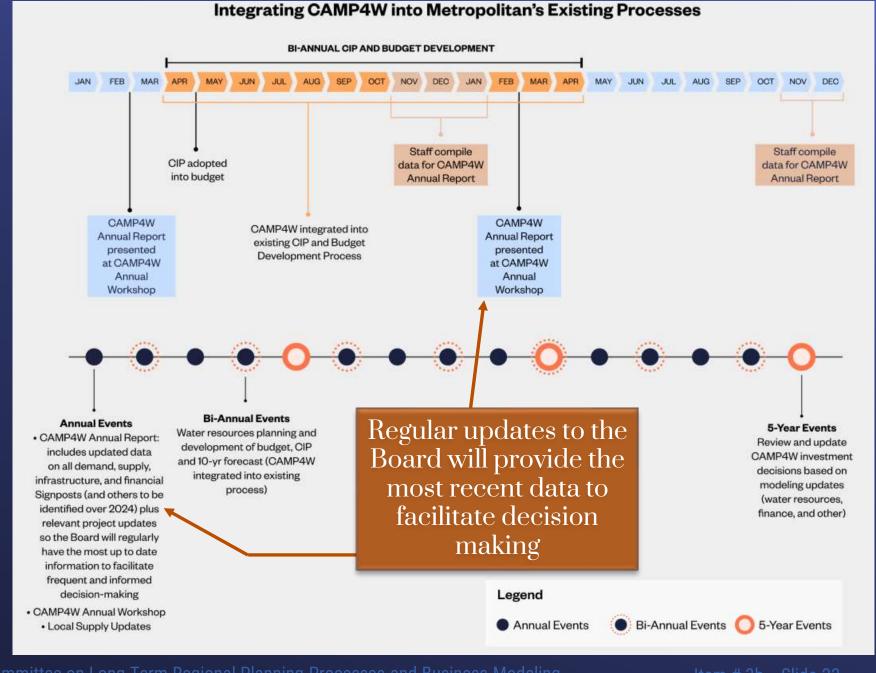
Institutionalizing Adaptive Management





Institutionalizing Adaptive Management





#### Example of Adaptive Management in Action:

Trends indicate it may not be needed vs. trends indicate project need to be accelerated

#### **Decision** l

Reservoir site identified. Signposts and modeling indicate project may be needed to achieve Time-Bound Targets; project scores well. Board funds FEASIBILTY STUDY in Biannual Budget and CIP.

#### Decision 2

Signposts check.

Demands decline;
potential drought
conditions. Board
funds UPDATED
FEASIBILITY
STUDY with
smaller footprint.

#### Decision 3

Signposts
assessed.

Demands
plateau; no
drought. Board
funds
PRELIMINARY
DESIGN.

#### Decision 4

Signposts
checked. Notable
decline in
demands. Board
decision to
PAUSE PROJECT
to track trends.
Not included in
Biannual Budget
and CIP!

#### Decision 5

Signposts assessed.
Population plateaus, region is in drought. Portfolio evaluation considers this reservoir, no reservoir, or other project. Board gauges risk tolerance and decides to fund DESIGN in Biannual Budget and CIP to be ready if implementation needed, and to make construction decision at a later date.

#### Decision l

Core supply option identified. Signposts and modeling indicate project may be needed to achieve Time-Bound Targets; project scores well. Board funds **FEASIBILTY STUDY** in Biannual Budget and CIP.

#### Decision 2

Signposts check.
Demands
increase; no IPCC
climate model
updates but
region is in
drought. Board
funds
PRELIMINARY
DESIGN.

#### Decision 3

Signposts assessed.
Demands increase;
drought worsens.
Board decision to
accelerate DESIGN
and
CONSTRUCTION.

#### Decision 4

Signposts checked.
Demands plateau but drought continues.
Project becomes part of baseline upon which new projects are evaluated.

# Today's Business Model Discussion

- Purpose and Need of Business Model Adjustments
- 2) Review of Metropolitan's Current Business

  Model
- 3) Exercise: Identifying Priorities & Objectives
- 4) Discussion
- 5) Next Steps



# 2024 Next Steps

Draft Year One Progress Report Sections 4

#### **Business Model**

- → Establish the schedule for ongoing integration of long-range finance planning into CAMP4W
- → Incorporate risk analysis into the Board's investment decisionmaking
- → Consider business model alternatives
- → Identify how Metropolitan can pursue options that advance affordability and equity goals



# 2024 Next Steps

Draft Year One Progress Report Section 5

#### Policies, Initiatives, and Partnerships

- → Develop and consider policies and initiatives
- → Explore Metropolitan and Member Agency partnership opportunities
- → Pursue external partnership and collaboration opportunities
- → Continue community engagement



# 2024 Next Steps

Draft Year One Progress Report Section 6

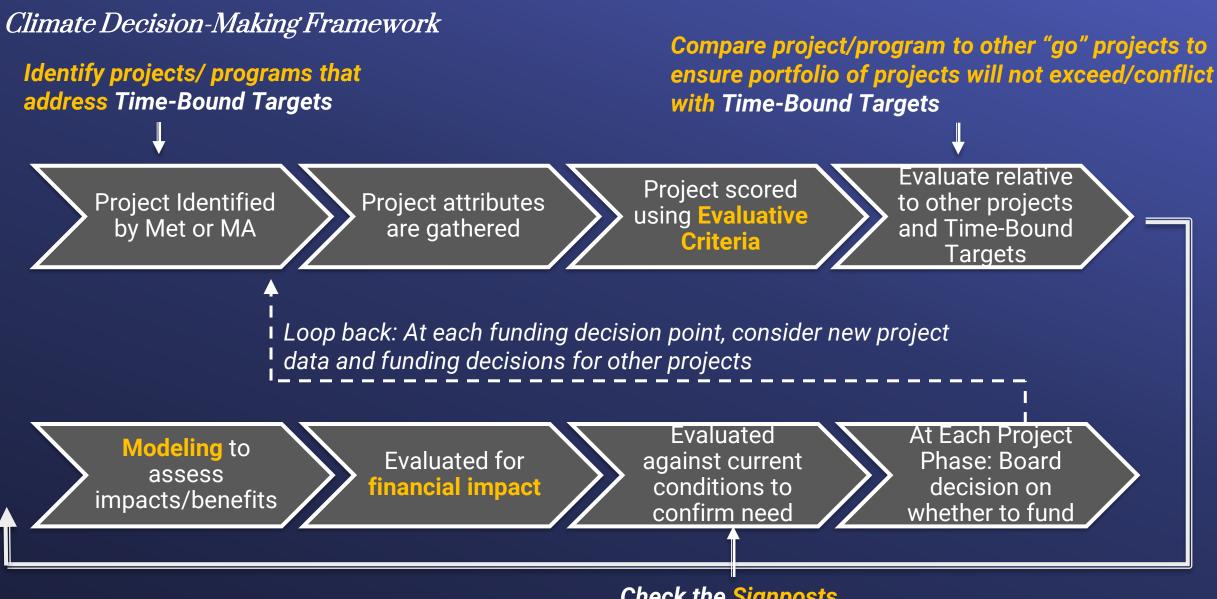
#### **Adaptive Management**

- → Refine Adaptive Management and how to institutionalize it into Metropolitan's processes
- → Further develop Signposts and specific metrics
- → Develop CAMP4W Annual Report Template
- → Refine process for integrating CAMP4W projects into CIP and budget
- → Identify early "Go Projects" and program opportunities
- → Continue development of dashboard and digital support tools





# Supplemental Slides



**Check the Signposts** 

Climate Adaptation Master Plan for Water

## Climate Decision Making Framework

Integrated Elements:

Time-Bound Targets, Evaluative Criteria and Investment Decisions function together Time-Bound
Targets guide
project
development
and inform
scoring of
projects





Scores and Time-Bound Targets inform decision-making

# Climate Decision-Making Framework – Evaluative Criteria



# Climate Decision-Making Framework – Evaluative Criteria



# Climate Decision-Making Framework – Time-Bound Targets

<b>,0</b>
Resource-
<b>Based Targets</b>

Numbers reflect additional supplies unless indicated otherwise

CATEGORY	NEAR TERM	MID TERM	LONG TERM	
Core Supply <sup>1</sup>	N/A	Identify 300 TAF for potential implementation by 2035.  Alternatively, 250 TAF of new storage will reduce core supply need to 200 TAF	Identify 650 TAF for potential implementation by 2045. Alternatively, 250 TAF of new storage will reduce core supply need to 550 TAF or, 500 TAF of new storage will reduce core supply need to 500 TAF	
Storage	Identify up to 500 TAF for potential implementation by 2035			
Flex Supply (Dry Year Equivalent)	Acquire capability for up to 100 TAFY			

 Core Supply sub-targets will be considered later this year and may include targets for groundwater remediation and stormwater capture.

# Climate Decision-Making Framework – Time-Bound Targets



CATEGORY	NEAR TERM	MID TERM	LONG TERM	
Equitable Supply Reliability	Add 160 CFS capacity to the SWPDA by 2026	Implement additional 130 CFS capacity to SWPDA by 2032	Implement capacity, conveyance, supply, and programs for SWPDA by 2045	
Local Agency Supply <sup>2</sup>	Maintain 2.09 to 2.32 MAF (under average year conditions)	2.12 to 2.37 MAF (under average year conditions)	2.14 to 2.40 MAF (under average year conditions)	
Demand Management <sup>3</sup>	Implement structural conservation programs to achieve 300 TAF by 2045			
Regional Water Use	Assist Retail Agencies to achieve, or exceed, compliance with SWRCB Water Use Efficiency Standards <sup>4</sup>			
Efficiency	GPCD target for 2030 <sup>5</sup>	GPCD target for 2035	GPCD target for 2045	
Greenhouse Gas Reduction	N/A	40% below 1990 emission levels by 2030	Carbon Neutral by 2045	
Surplus Water Management	Develop capability to manage up to 500 TAFY of additional wet year surplus above Metropolitan's Storage Portfolio and WSDM action			

#### Climate Adaptation Master Plan for Water

## Climate Decision-Making Framework

Time-Bound Targets

- Local Agency Supply includes existing (and under construction) local agency supplies and can be augmented later this year to include new local agency supply.
- Demand Management target is used to offset the need for additional core supply and uses 2024 as a baseline.
- Regional Water Use Efficiency: each retail water supplier will report
  progress to the State Water Board annually through a Water Use Objective
  (WUO) equaling the sum of efficiency budgets for a subset of urban water
  uses: residential indoor water use, residential outdoor water use, real water
  loss and commercial, industrial and institutional landscapes with dedicated
  irrigation meters. Each efficiency budget is calculated using a statewide
  efficiency standard and local service area characteristics (population,
  climate, etc.)
- Specific GPCD Time-Bound Targets will be identified later this year based on final SWRCB standards as well as Metropolitan's overall demand management target. The target will be designed to track water use efficiency trends by sector over time and will take local conditions, including climate, into consideration.



#### Development of Adaptation Strategies

Projects and Programs designed to achieve the Time-Bound Targets

Resilience Planning, Hazard and Vulnerability Assessments

Drought Mitigation Action Planning

Resource Studies/Program Development System Capacity Planning

Flexibility and Supply Planning

Multiple processes will identify projects and programs for CAMP4W evaluation



#### Additional 2024 CAMP4W Activities

For December 2024 Climate Adaptation Master Plan

#### Refine Framework

 Finalize and augment Targets and Adaptive Management

#### CAMP4W Evaluation

 Identify and evaluate projects and programs through the CAMP4W

#### Business Model Action

• Determine next steps on business and revenue models

#### Community Engagement

• Work with
Member Agencies
on community
engagement and
partnerships





Finance, Audit, Insurance, and Real Property Committee

# Overview of Metropolitan's Finances

Item 7a July II, 2023

# Agenda

- Financial Overview
- Unrestricted Reserves
- Rate Structure
- Cost-of-Service Process
- Debt profile

## Financial Overview

## Organizational Chart

~54 Budgeted FTE

Finance Group

#### Controller

- General Ledger
- Financial Reporting
- Project/Grants Acct
- Fixed Assets
- Payroll
- Accounts Payable
- Accounts Receivable
- Water Billing

# Revenue & Budget

- Operating Budget
- Rates and Charges
- Management Analytics

#### Treasury

- Debt Issuance
- Debt Management
- Debt Compliance
- Cash & Investments
- P-Card Program

#### Risk Management

- Risk evaluation
- Manage policies
- Incidence reporting & investigation
- Actuarial valuations

#### Business Continuity

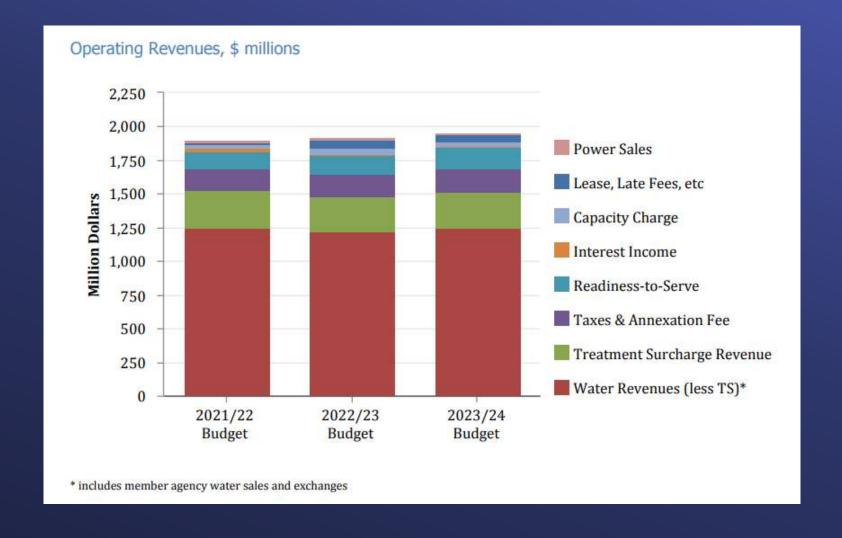
 Organizational-wide business continuity planning

## Financial Structure Enterprise Fund Accounting

- Metropolitan operates as a <u>utility enterprise</u> in accordance with generally accepted accounting principles (GAAP) for proprietary funds as required by Governmental Accounting Standards Board (GASB).
- Metropolitan is a single enterprise fund, which GASB labels as a businesstype activity (BTA)
- MWD's enterprise (purpose) under the MWD Act is to develop, store, and distribute water, at wholesale, to its member public agencies for domestic and municipal purposes. This is unlike an all-purpose city or county, that engages in various general government and enterprise activities and keeps separate funds for each of those activities, including utilities.
- All operating revenues unless restricted by Administrative Code are available to support MWD's enterprise-wide activities.

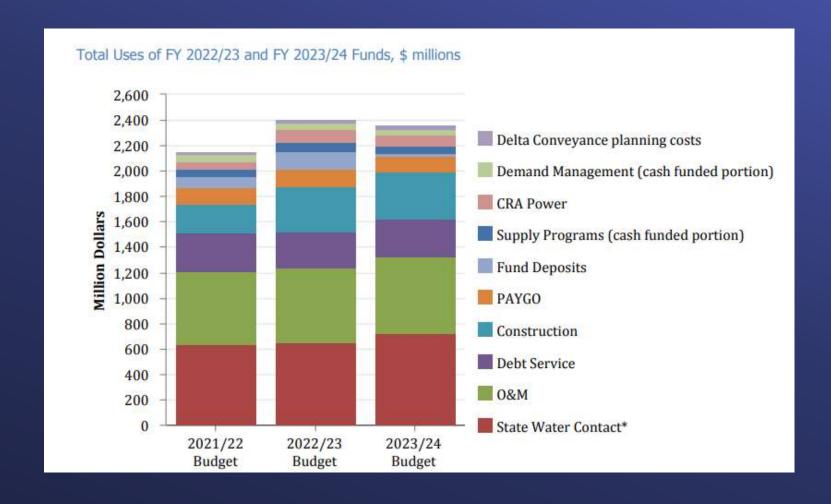
# Operating Revenues - Budget

 Water revenues (including exchanges) make up a significant majority of MWD's operating revenues, followed by water treatment surcharge revenues and property taxes.



# Uses of Funds – Budget (including CIP)

 MWD's major uses of funds include expenditures for the State Water Contract, Operations & Maintenance, debt service, and capital construction.



# Non-Discretionary Expenditures 2022/23 Budget Expenditures



#### **Discretionary**

- PAYGO Funding
- Conservation Credits
- Delta Conveyance Project planning costs
- Future Supply Actions & Stormwater Pilot

#### **Non-discretionary**

- 0&M
- State Water Contract
- CRA Power
- Debt Service & Debt Reserve
- Supply Programs
- LRP Incentive Contracts
- Required Reserve Increase

June 30, 2022 - \$1.56 B

Unrestricted Reserves , \$647 M

#### **Unrestricted Reserves**

Set up pursuant to Board policy to help provide stable & predictable water rates.

- Revenue Remainder Fund
- Water Rate Stabilization Fund

June 30, 2022 - \$1.56 B

Unrestricted Reserves , \$647 M

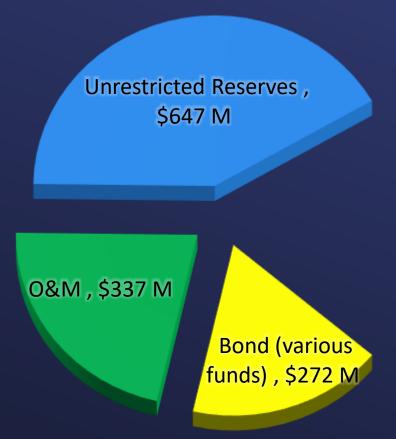
O&M,\$337 M

#### **O&M Fund:**

Set up pursuant to Master Senior Revenue Bond Resolution.

Required to maintain two months of Operation and Maintenance expenditures.

June 30, 2022 - \$1.56 B



#### **Bond Funds:**

Set up pursuant to a bond or other legal obligation.

June 30, 2022 - \$1.56 B

Unrestricted Reserves , \$647 M

#### **State Water Contract Fund:**

Set up pursuant to Board policy to ensure adequate funds are available to make the July 1st and Jan 1st SWC capital payments.

O&M , \$337 M

Bond (various funds) , \$272 M

State Water Contract, \$104 M

June 30, 2022 - \$1.56 B

Unrestricted Reserves , \$647 M

O&M, \$337 M

Bond (various funds), \$272 M

Water Stewardship , \$61 M

State Water Contract, \$104 M

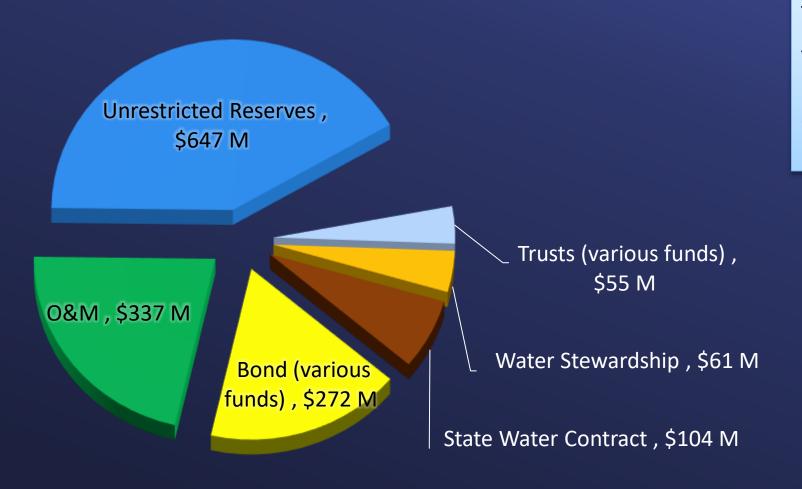
#### **Water Stewardship:**

Set up pursuant to Board policy.

Administrative Code Section to collect revenue from the Water Stewardship Rate and to pay demand management programs.

April 30, 2023 balance is \$0

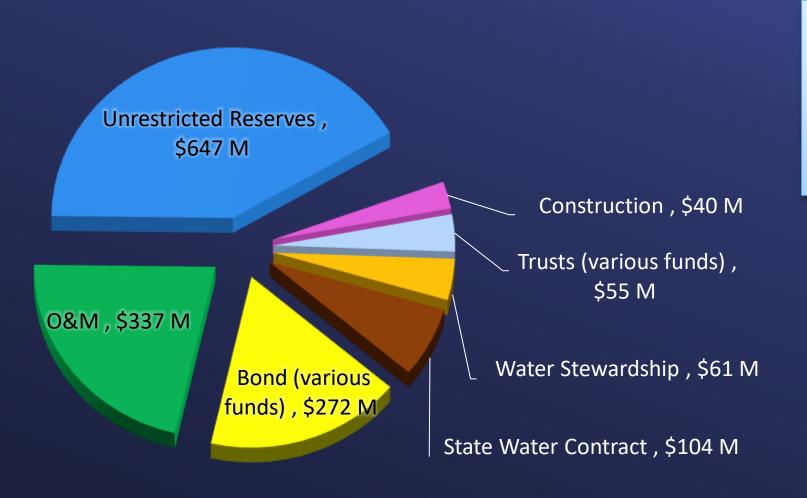
June 30, 2022 - \$1.56 B



#### **Trust Funds**

Trust funds are monies held by Metropolitan in a trustee or custodial capacity pursuant to legal obligations.

June 30, 2022 - \$1.56 B



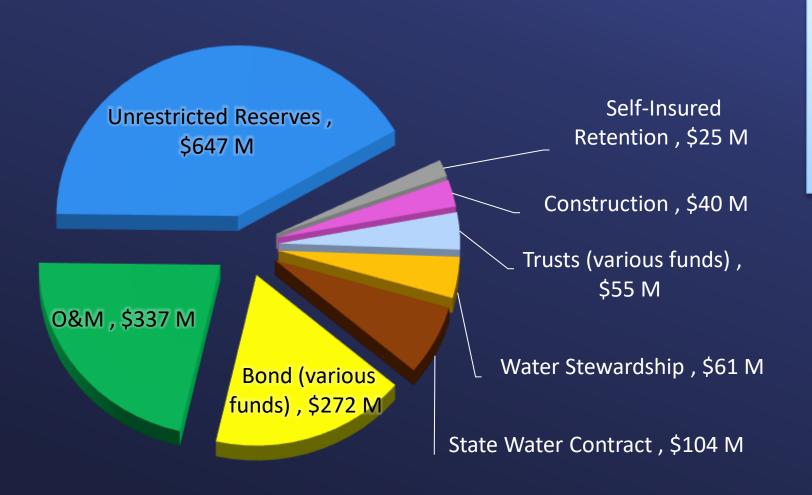
#### **Construction Funds:**

Set up pursuant to Board policy.

Administrative Code Section 5201(d)

Holds bond proceeds available for capital expenditures.

June 30, 2022 - \$1.56 B

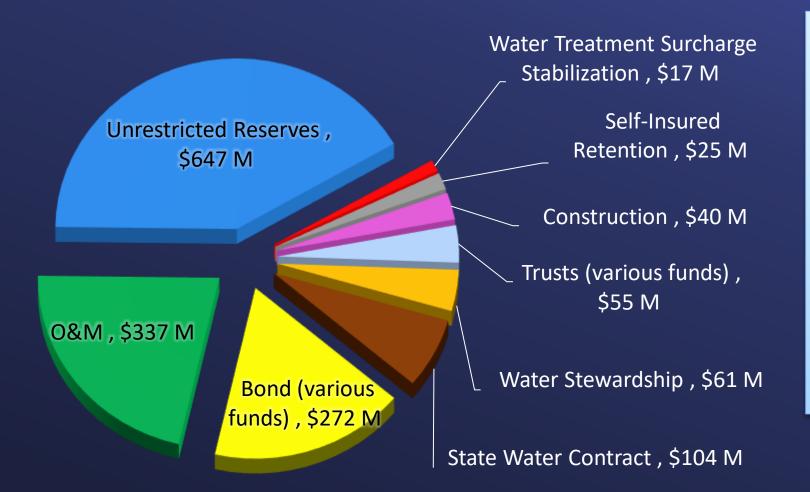


#### **Self-Insured Retention Fund:**

Set up pursuant to Board policy. *Administrative Code Section 5201(p)*:

\$25 million set aside for emergency repairs and claims against the District.

June 30, 2022 - \$1.56 B



## **Water Treatment Surcharge Stabilization Fund:**

Set up pursuant to Board policy.

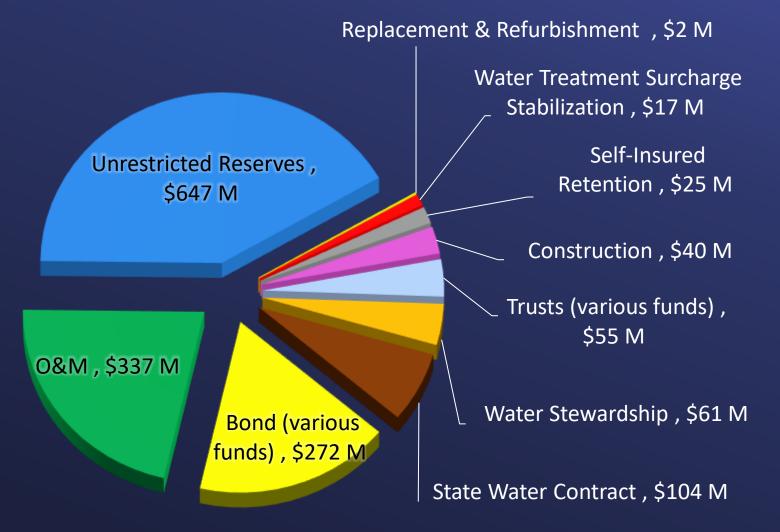
Administrative Code Section 5202(d)

Holds treatment surcharge revenues in excess of water treatment costs.

Available for the principal purpose of mitigating required increases in the treatment surcharge.

Projected June 30, 2023 balance = \$0

June 30, 2022 - \$1.56 B



#### **Replacement & Refurbishment:**

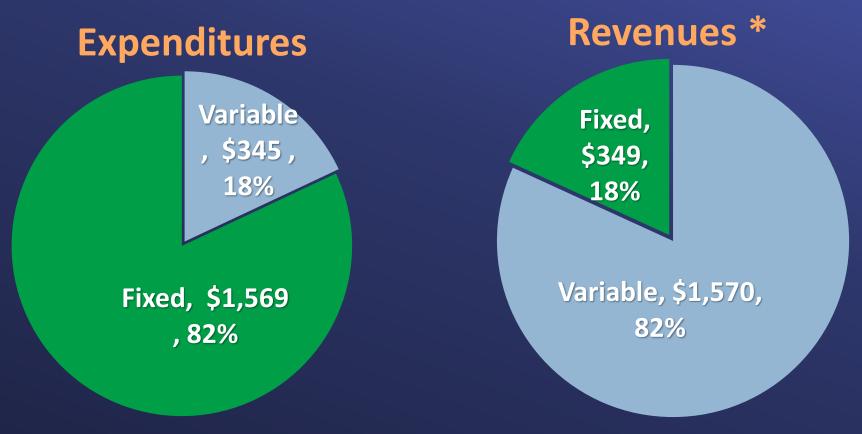
Set up pursuant to Board policy.

Administrative Code Section 5202(d)

Funds available for capital expenditures

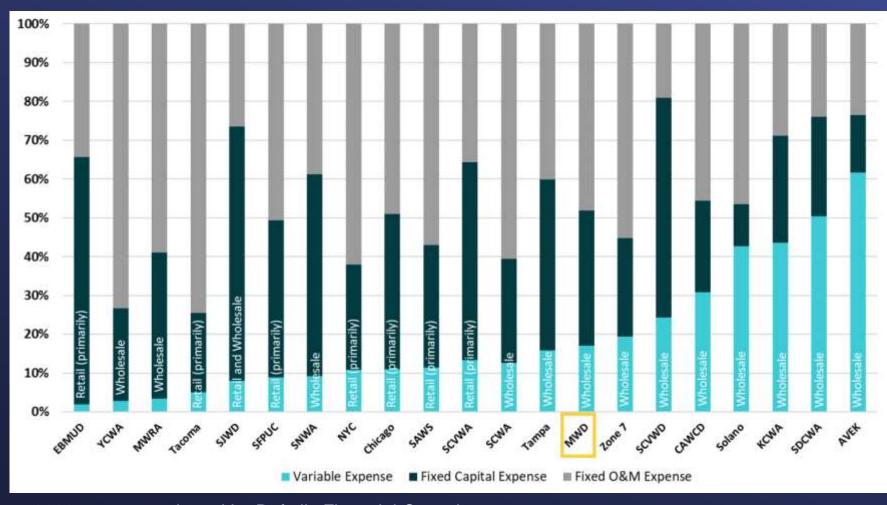
Projected June 30, 2023 balance = \$0

# Challenge: Fixed Costs vs. Variable Revenues 2022/23 Budget (\$ in Millions)



<sup>\*</sup> For purposes of this presentation, variable revenues include all revenues that are dependent upon volumetric transactions over a one-year period (Sales, Wheeling and Exchanges), power sales, interest income and miscellaneous. This includes water sales to Member Agencies with Purchase Order commitments to purchase a designated amount of water over a 10-year period. Fixed revenues includes Readiness-to-Serve Charge, Capacity Charge, and property taxes.

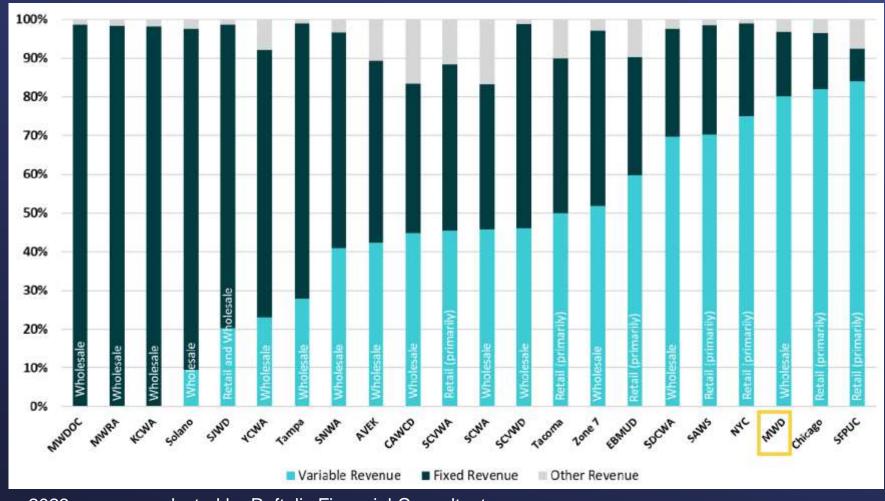
# Fixed and Variable <u>Expense</u> Composition for Wholesale Water Agencies



Antelope Valley East Kern Agency (AVEK) Central Arizona Water Conservation District (CAWCD) Chicago Water Department East Bay Municipal Utility District (EBMUD) Kern County Water Agency (KCWA) Massachusetts Water Resources Authority (MWRA) Metropolitan Water District of Orange County (MWDOC) Metropolitan Water District of Southern California (MWD) New York City Water Board San Antonio Water System (SAWS) San Diego County Water Authority (SDCWA) San Francisco Public Utilities Commission (SFPUC) San Juan Water District Santa Clara Valley Water District (SCVWA) Santa Clarita Valley Water Agency (SCV) Solano County Water Agency (Solano) Sonoma County Water Agency (SCWA) Southern Nevada Water Authority (SNWA) Tacoma Water Tampa Bay Water Yuba County Water Agency (YCWA) Zone 7 Water Agency

2023 survey conducted by Raftelis Financial Consultants

# Fixed and Variable <u>Revenue</u> Composition for Wholesale <u>Water Agencies</u>



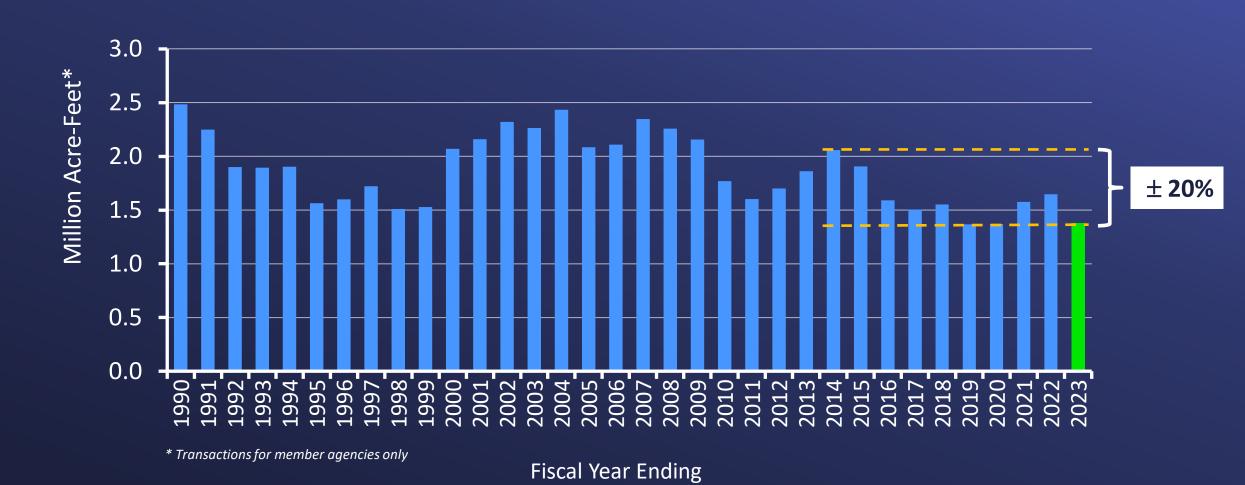
Antelope Valley East Kern Agency (AVEK) Central Arizona Water Conservation District (CAWCD) Chicago Water Department East Bay Municipal Utility District (EBMUD) Kern County Water Agency (KCWA) Massachusetts Water Resources Authority (MWRA) Metropolitan Water District of Orange County (MWDOC) Metropolitan Water District of Southern California (MWD) New York City Water Board San Antonio Water System (SAWS) San Diego County Water Authority (SDCWA) San Francisco Public Utilities Commission (SFPUC) San Juan Water District Santa Clara Valley Water District (SCVWA) Santa Clarita Valley Water Agency (SCV) Solano County Water Agency (Solano) Sonoma County Water Agency (SCWA) Southern Nevada Water Authority (SNWA) Tacoma Water Tampa Bay Water Yuba County Water Agency (YCWA) Zone 7 Water Agency

2023 survey conducted by Raftelis Financial Consultants

## Unrestricted Reserves

## Metropolitan's Historic Water Transactions

Water Transactions are Variable



## Unrestricted Reserve Level vs. Rate Spikes

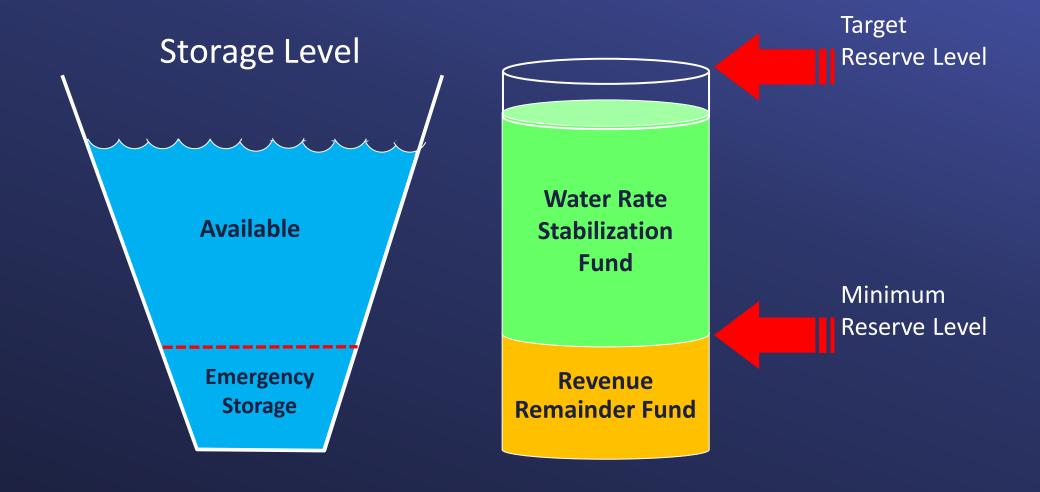


Risk of Water Rate Spikes

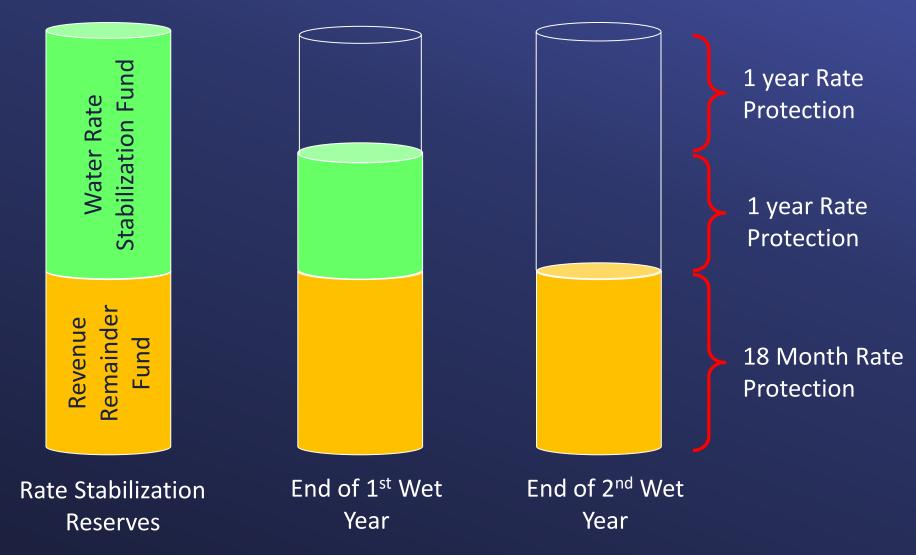
## Unrestricted Reserve Fund Principles

- Current method was adopted with the 1999 Long Range Finance Plan
- MWD Administrative Code § 5202
  - Established to smooth out and/or mitigate future water rate increases
  - Provides funds to cover revenue shortfall resulting from 20% reduction in water sales
    - Minimum fund level provides 18 months of rate protection
    - Target fund level provides additional 2 years of rate protection for a total of 3.5 years
  - Provide stable & predictable water rates
  - Provide stable rates for local water resource investment planning
    - MWD rate used as a benchmark

#### Unrestricted Reserve Fund



#### Use of Unrestricted Reserve Fund



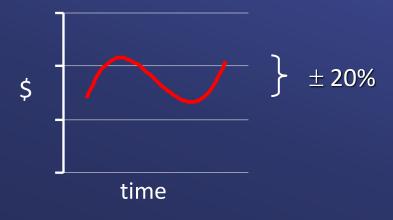
# Rate Setting Timeline



## Unrestricted Reserve Calculation

Hydrologic Risk estimated per 1999 LRFP

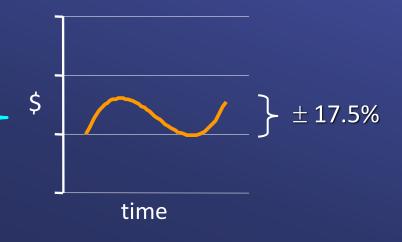
## Volumetric Water Sales Revenue



#### **Variable Costs**



## Fixed Costs Recovered by Water Rate



# Unrestricted Reserve Calculation for June 30th, 2023 in millions of dollars

	2023/24	2024/25	2025/26	2026/27
	Budget	Forecast	Forecast	Forecast
Revenue Requirement	\$1,764	\$1,862	\$1,941	\$2,038
Less RTS Charge	161	167	167	167
Less Capacity Charge	35	39	43	46
Water Rate Revenue Requirements	1,568	1,656	1,731	1,825
Less Variable Costs				
Treatment Surcharge Rev Req.	273	298	303	310
SWC Variable Power Costs	254	287	295	299
CRA Power Costs	86	75	77	79
Fixed Costs Recovered by Water Rate	956	996	1,055	1,137
Percent Reserved	17.5%	17.5%	17.5%	17.5%
Annual Amount Reserved	\$167	\$174	\$185	\$199

Minimum Reserve Level = 167 + 174 / 2 = \$254.5 million Target Reserve Level = 167 + 174 + 185 + 199 / 2 = \$625.8 million

## Unrestricted Reserve Policy

Reserve Fund Principle:

Provide stable & predictable water rates



Used principally for PAYGO, Defeasance, etc

Used principally to maintain stable rates and charges

Increase Rates and Charges to replenish reserves

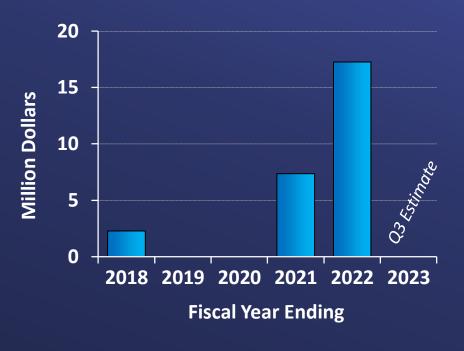
#### Unrestricted Reserves

#### 5-Year Historical Perspective

#### Unrestricted Reserves\*

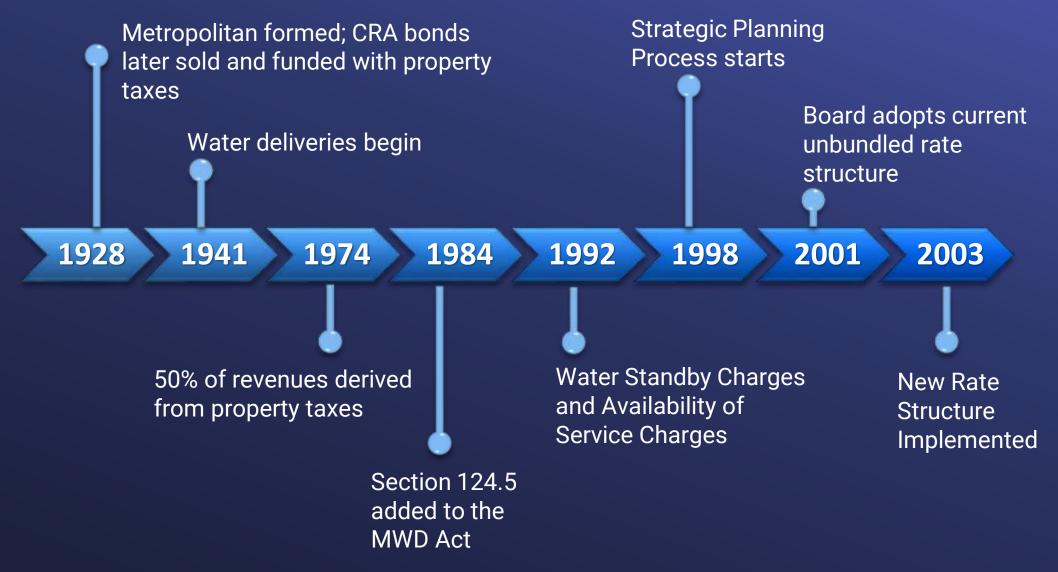


Water Treatment
Surcharge Stabilization
Fund\*



## Rate Structure

## History of Rate Structure



#### Metropolitan Water Service

#### Full-Service Untreated Water Service

Unbundled rates and charges apply

Rate Elements	Charges
Supply Rate (Tier 1/ Tier 2)	RTS Charge (Standby Charge offset)
System Access Rate	Capacity Charge
System Power Rate	

#### Full-Service Treated Water Service

Unbundled rates and charges apply

Rate Elements	Charges
Supply Rate (Tier 1/ Tier 2)	RTS Charge (Standby Charge offset)
System Access Rate	Capacity Charge
System Power Rate	
Treatment Surcharge	

## Wheeling and Exchanges Set by agreement

## Rate Elements and Charges Overview

Tier 1 Supply Rate – recovers the cost of developing and maintaining a reliable water supply.

Tier 2 Supply Rate – set at Metropolitan's cost of purchasing water transfers north of the Delta. The Tier 2 Supply Rate encourages the maintenance of existing local supplies and the development of cost-effective local supply resources and conservation.

System Access Rate – recovers costs associated with the interconnected regional delivery network necessary to deliver water to meet member agencies' average annual demands. Included are the costs of conveyance and distribution facilities.

System Power Rate – recovers Metropolitan's power costs for pumping supplies to Southern California.

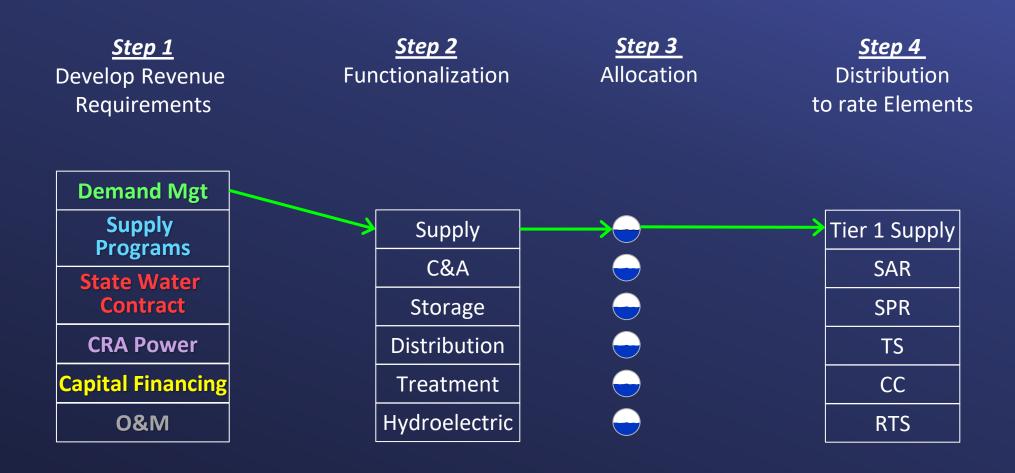
#### Rate Elements and Charges Overview (cont'd)

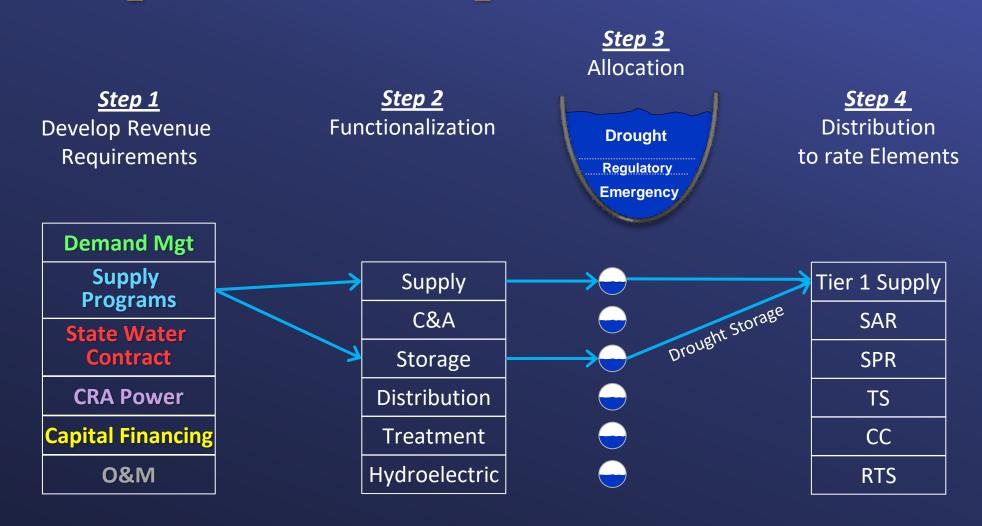
Treatment Surcharge – recovers the costs of treating imported water.

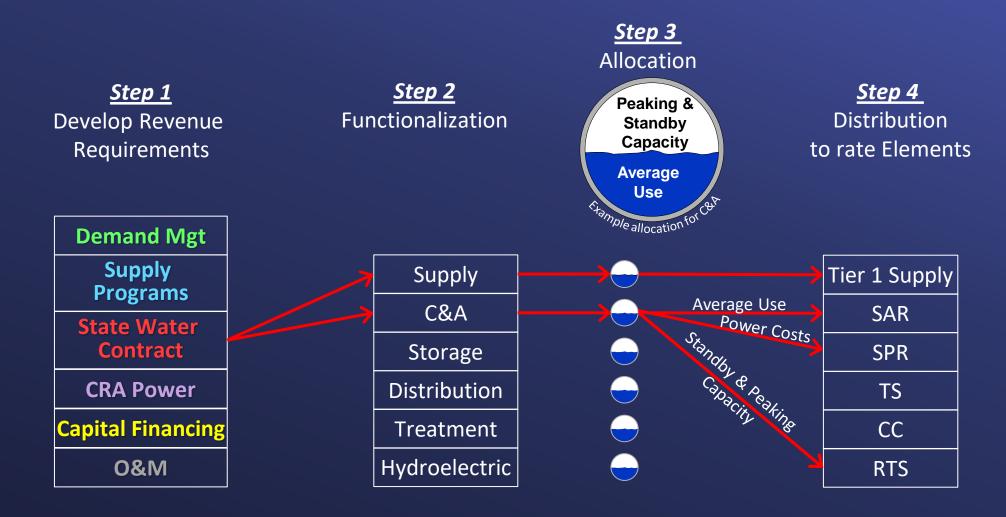
Readiness-to-Serve Charge – a fixed charge that recovers the capital costs of providing emergency service and available capacity to meet outages, emergencies and hydrologic variability. The Standby Charge collection for 22 participating member agencies offsets their RTS Charge obligation.

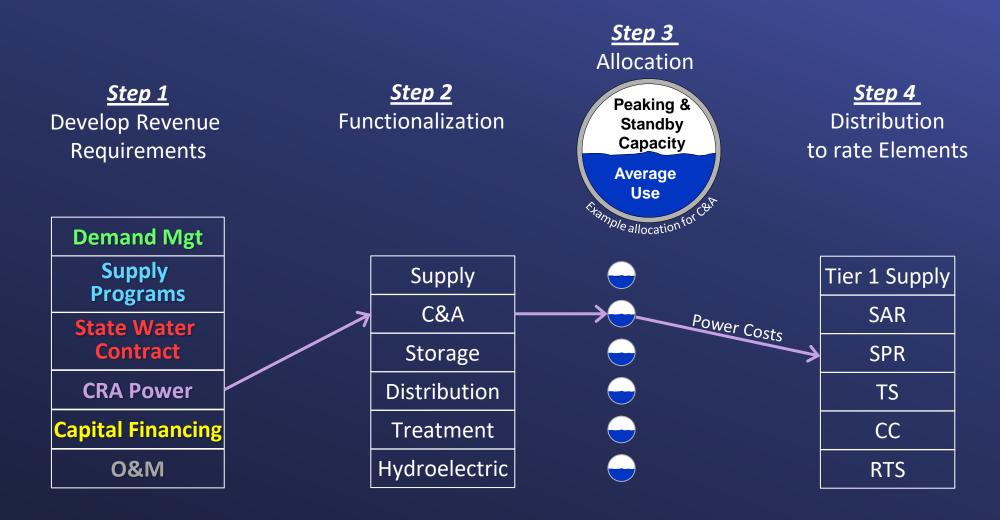
Capacity Charge – the Capacity Charge recovers the capital cost of providing peaking capacity within the distribution system which Metropolitan owns or has the right to use.

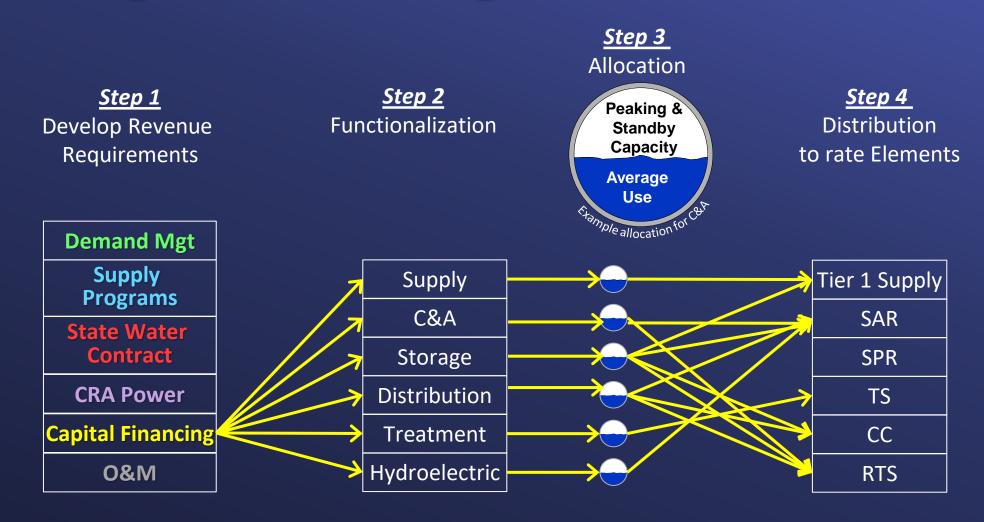
#### Cost-of-Service Process

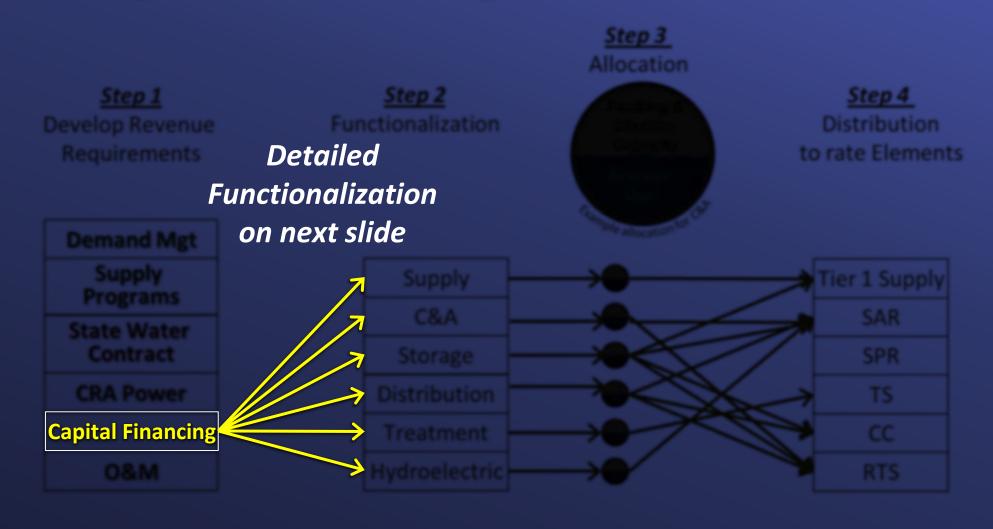












#### Functionalization of Capital Assets

Supply

- Capital costs associated with managing and developing water supplies to meet the member agencies demands
- Ex: PVID properties, debt Financed portion of Conservation Program, hayfield property.

Conveyance & Aqueduct

- Capital costs for CRA facilities and other conveyance systems that convey water to Metropolitan's internal distribution system
  - ❖MWD pays capital related costs for SWP to DWR (MWD not owning assets)
- Ex: Colorado River Aqueducts, Copper Basin Dam, IOC Inland Feeder, CRA All Pump Plants

<u>Capital Assets</u>

Completed
Work-in-progress
Projected CIP

Storage

Distribution

Treatment

- Water storage reservoirs for emergency, drought and regulatory use
- Ex: Diamond Valley Lake Reservoir, Lake Matthews, Lake Skinner,
- Over 800 miles of transmission pipelines, feeders, laterals, canals and other appurtenant works to distribute water to member agencies from storage, treatment facilities
- Ex: Rialto Pipeline; the Etiwanda Pipeline; the Foothill Feeder; the Sepulveda Feeder; the Santa Monica Feeder
- 5 regional water treatment plants
- Ex: F.E. Weymouth Water Treatment Plant, Robert B. Diemer Water Treatment Plant, Joseph Jensen Water Treatment Plant, Robert A. Skinner Water Treatment Plant, Henry J. Mills Water Treatment Plant

Hydroelectric

- Hydroelectric plants to generate power for MWD distribution system
- Ex: Lake Matthews Power Plant, Yorba Linda Power Plant, San Dimas Power Plant, etc.



**Step 2** Functionalization



Step 3

Step 4
Distribution
to rate Elements

#### **Demand Mgt**

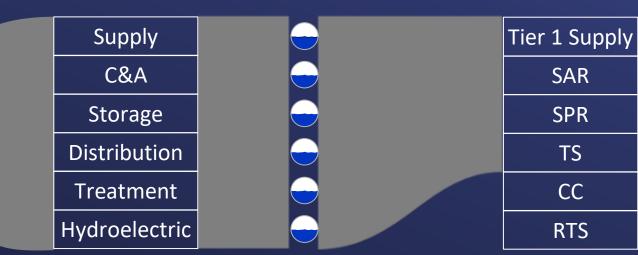
Supply Programs

State Water Contract

**CRA Power** 

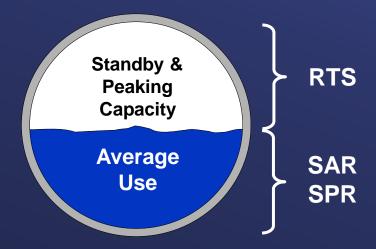
**Capital Financing** 

**0&M** 



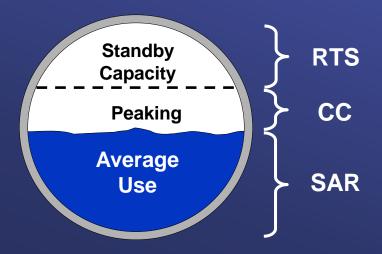
#### Metropolitan COS Allocation

#### Conveyance & Aqueduct





#### **Distribution System**



#### **Other Functions**

Supply → Tier 1 Supply Rate

Treatment → TS

Demand Management → Tier

1 Supply Rate

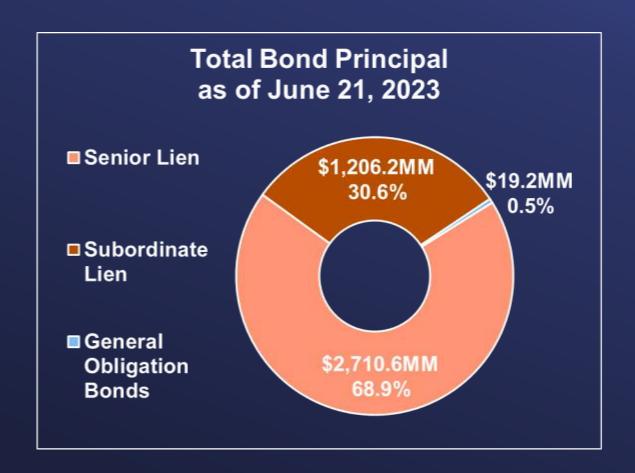
#### Adopted 2023 and 2024 Water Rates and Charges

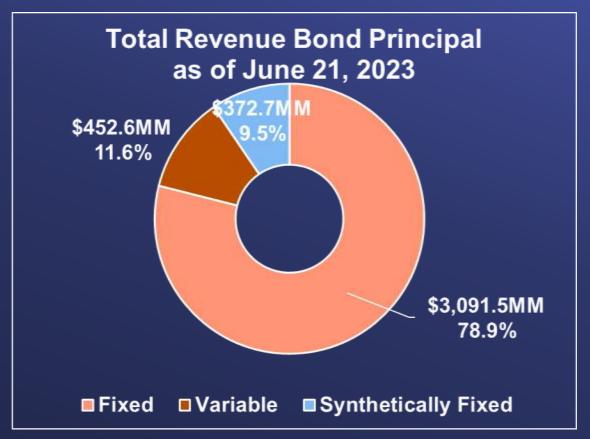
Rates & Charges			% Increase		% Increase	
Effective January 1st	2022	2023	(Decrease)	2024	(Decrease)	
Tier 1 Supply Rate (\$/AF)	\$243	\$321	32%	\$332	3%	
Tier 2 Supply Rate (\$/AF)	\$285	\$530	86%	\$531	0%	
System Access Rate (\$/AF)	\$389	\$368	(5%)	\$389	6%	
System Power Rate (\$/AF)	\$167	\$166	(1%)	\$182	10%	
Treatment Surcharge (\$/AF)	\$344	\$354	3%	\$353	(0%)	
Full Service Untreated Volumetric Cost (\$/AF)						
Tier 1	\$799	\$855	7%	\$903	6%	
Tier 2	\$841	\$1,064	27%	\$1,102	4%	
Full Service Treated Volumetric Cost (\$/AF)						
Tier 1	\$1,143	\$1,209	6%	\$1,256	4%	
Tier 2	\$1,185	\$1,418	20%	\$1,455	3%	
RTS Charge (\$M)	\$140	\$154	10%	\$167	8%	
Capacity Charge (\$/cfs)	\$12,200	\$10,600	(13%)	\$11,200	6%	
Overall Rate Increase			5.0%		5.0%	

Full Service Cost means the Full Service Rate, consisting of the following rate components: the applicable Supply Rate, the System Access Rate, the System Power Rate, and if applicable the Treatment Surcharge for treated water service.

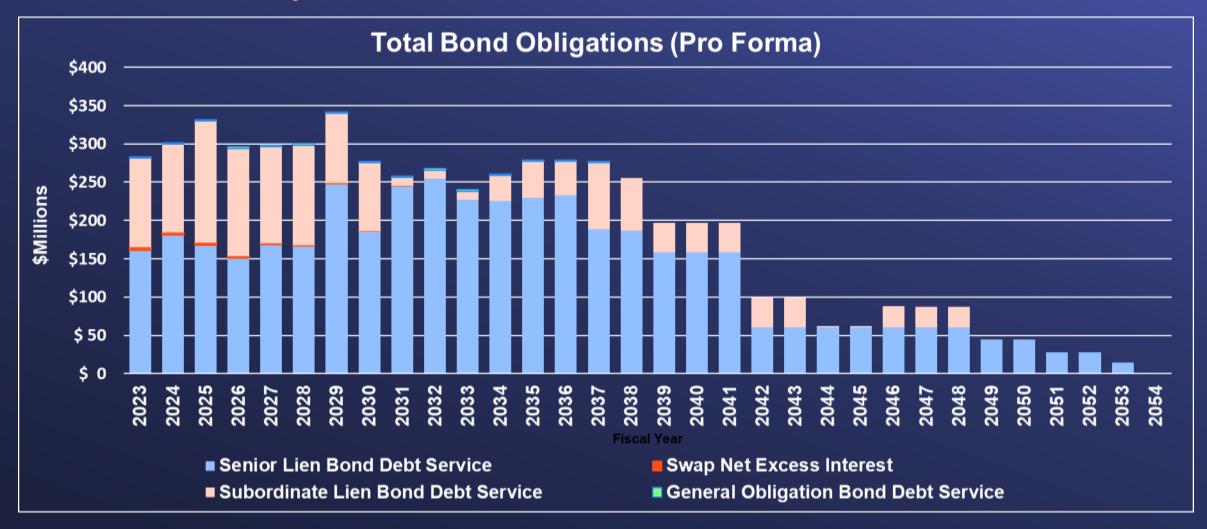
#### Debt Profile

# Debt Profile Outstanding Debt by Type





# Debt Profile Debt Service by Fiscal Year



#### Third Quarter Financial Report

- The Quarterly Financial Review (Q3 2023) was presented to the FAIRP Committee in May 2023. In addition to the Quarterly Financial Review, staff produces a quarterly basic financial statement as part of Metropolitan's continuing disclosure requirements.
- As requested by the Board, Finance staff is providing a link to the Basic Financial Statements (Unaudited) for the Nine (9) Months Ended March 31, 2023:
  - https://www.mwdh2o.com/media/ketfucvs/mar-23quarterly-bfs-final.pdf

#### THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Basic Financial Statements

Nine Months Ended March 31, 2023 and 2022

(Unaudited)

