

The Metropolitan Water District of Southern California

Agenda

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

OW&S Committee

T. Quinn, Chair
S. Faessel, Vice Chair
L. Ackerman
D. Alvarez
J. Armstrong
A. Chacon
G. Cordero
D. De Jesus
D. Erdman
L. Fong-Sakai
S. Goldberg
C. Kurtz
R. Lefevre
C. Miller
M. Petersen
G. Peterson
B. Pressman
N. Sutley

One Water and Stewardship Committee - Final

Meeting with Board of Directors *

August 14, 2023

2:00 p.m.

Agendas, live streaming, meeting schedules, and other board materials are available here: <https://mwdh2o.legistar.com/Calendar.aspx>. A listen-only phone line is available at 1-877-853-5257; enter meeting ID: 862 4397 5848. Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via in-person or teleconference. To participate via teleconference 1-833-548-0276 and enter meeting ID: 815 2066 4276 or click <https://us06web.zoom.us/j/81520664276pwd=a1RTQWh6V3h3ckFhNmdsUWpKR1c2Zz09>

Monday, August 14, 2023 Meeting Schedule

09:30 a.m. EOT
09:30 a.m. EIA
11:30 a.m. LRAC
01:30 p.m. Break
02:00 p.m. OWS

MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012

Teleconference Locations:

2936 Triunfo Canyon • Agoura Hills, CA 91301

Cedars Sinai Medical Center • 8700 Beverly Blvd • Los Angeles, CA 90048

Covina Irrigating Company • 146 E. College Street • Covina, CA 91723

* The Metropolitan Water District's meeting of this Committee is noticed as a joint committee meeting with the Board of Directors for the purpose of compliance with the Brown Act. Members of the Board who are not assigned to this Committee may participate as members of the Board, whether or not a quorum of the Board is present. In order to preserve the function of the committee as advisory to the Board, members of the Board who are not assigned to this Committee will not vote on matters before this Committee.

1. **Opportunity for members of the public to address the committee on matters within the committee's jurisdiction (As required by Gov. Code Section 54954.3(a))**

2. **SUBCOMMITTEE REPORTS**

NONE

**** CONSENT CALENDAR ITEMS -- ACTION ****

3. **CONSENT CALENDAR OTHER ITEMS - ACTION**

- a. Approval of the Minutes of the One Water and Stewardship Committee for July 10, 2023 (Copies have been submitted to each Director, Any additions, corrections, or omissions) [21-2383](#)

Attachments: [08142023 OWS 3A \(07102023\) Minutes](#)

4. CONSENT CALENDAR ITEMS - ACTION

- 7-3 Authorize amendments to the Cyclic Cost-Offset Program terms; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA [21-2555](#)

Attachments: [08152023 OWS 7-3 B-L](#)
[08152023 OWS 7-3 Presentation](#)

- 7-4 Authorize implementation of a tree rebate modification to the Turf Replacement Program; the General Manager has determined that these actions are exempt or otherwise not subject to CEQA [21-2557](#)

Attachments: [08152023 OWS 7-4 B-L](#)
[08152023 OWS 7-4 Presentation](#)

**** END OF CONSENT CALENDAR ITEMS ****

5. OTHER BOARD ITEMS - ACTION

NONE

6. BOARD INFORMATION ITEMS

NONE

7. COMMITTEE ITEMS

- a. Introduction of new Delta Stewardship Council member: Maria Mehranian [21-2554](#)

- b. State Water Contractors: Purpose and Benefits (Jennifer Pierre, General Manager) [21-2574](#)

Attachments: [08142023 OWS 7b Presentation](#)

- c. Update on Conservation [21-2559](#)

Attachments: [08142023 OWS 7c Presentation](#)

8. MANAGEMENT REPORTS

- a. Colorado River Manager's Report [21-2384](#)
Attachments: [08152023 OWS 8a Report](#)

- b. Bay-Delta Manager's Report [21-2385](#)
Attachments: [08152023 OWS 8b Report](#)
[08142023 OWS 8b Presentation](#)

- c. Water Resource Management Manager's Report [21-2386](#)
Attachments: [08142023 OWS 8c Presentation](#)

- d. Chief Sustainability, Resilience and Innovation Officer's Report [21-2560](#)
Attachments: [08142023 OWS 8d Presentation](#)

9. FOLLOW-UP ITEMS

NONE

10. FUTURE AGENDA ITEMS

11. ADJOURNMENT

NOTE: This committee reviews items and makes a recommendation for final action to the full Board of Directors. Final action will be taken by the Board of Directors. Committee agendas may be obtained on Metropolitan's Web site <https://mwdh2o.legistar.com/Calendar.aspx>. This committee will not take any final action that is binding on the Board, even when a quorum of the Board is present.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site <https://mwdh2o.legistar.com/Calendar.aspx>.

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
MINUTES
ONE WATER AND STEWARDSHIP COMMITTEE

July 10, 2023

Chair Quinn called the meeting to order at 3:01 p.m.

Members present: Directors Alvarez, Armstrong, Chacon, Cordero (AB2449), Faessel, Fong-Sakai, Goldberg, Kurtz, Lefevre, Miller, Peterson, and Quinn.

Members Absent: Directors Ackerman, De Jesus, Erdman, Petersen, and Sutley.

Other Board Members present: Abdo, Dennstedt, Dick, Garza, Luna, Ortega, Pressman, Ramos, Seckel, and Smith.

Director Cordero indicated she is participating under AB2449 “just cause” regarding illness. Director Cordero appeared by audio and on Camera.

Committee staff present: Coffey, Crosson, Hasencamp, Munguia, Neudeck, Schlotterbeck, Upadhyay, and Wheeler.

1. OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE COMMITTEE ON MATTERS WITHIN THE COMMITTEE’S JURISDICTION (AS REQUIRED BY GOV. CODE SECTION 54954.3(A))

None

2. SUBCOMMITTEE REPORTS

None

CONSENT CALENDAR ITEMS -- ACTION

3. CONSENT CALENDAR OTHER ITEMS – ACTION

- a. Approval of the Minutes of the One Water and Stewardship Committee for June 12, 2023.

4. CONSENT CALENDAR ITEMS – ACTION

None

Director Peterson made a motion, seconded by Director Miller, to approve the Consent Calendar consisting of item 3a.

Director Cordero announced during roll call that no one was in the room with her 18 years of age or older.

The vote was:

- Ayes: Directors Armstrong, Chacon, Cordero, Faessel, Fong-Sakai, Kurtz, Lefevre, Miller, Peterson, and Quinn.
- Noes: None.
- Abstentions: Alvarez and Goldberg.
- Absent: Directors Ackerman, De Jesus, Erdman, Petersen, and Sutley.

The motion for item 3a passed by a vote of 10 ayes, 0 noes, 2 abstentions, and 5 absent.

****END OF CONSENT CALENDAR ITEMS****

5. OTHER BOARD ITEMS - ACTION

None

6. BOARD INFORMATION ITEMS

None

7. COMMITTEE ITEMS

- a. Subject: Tree Rebate Addition to Turf Replacement Program

Presented by: Krista Guerrero, Resource Specialist, Water Resource Management

Ms. Guerrero gave a presentation that explained a new proposal for a tree rebate that would be added to the Turf Replacement Program.

Mr. Brad Coffey provided additional comments noting that this presentation was given at the previous Member Agency Managers (MAM) Meeting where staff received feedback from MAM.

The following Directors provided comments or asked questions:

1. Armstrong
2. Faessel
3. Fong-Sakai
4. Pressman

5. Quinn
6. Alvarez
7. Peterson

Staff responded to Directors' questions and comments.

b. Subject: Update on Conservation

Presented by: Elise Goldman, Resource Specialist, Water Resource Management

Ms. Goldman gave a presentation on Conservation expenditures and turf application activity.

The following Directors provided comments or asked questions:

1. Quinn
2. Abdo

c. Subject: Proposal for Colorado River Inflation Reduction Act Bucket 2 Funding

Presented by: Brad Coffey, Manager, Water Resource Management

Director Miller provided brief background information and introduced Mr. Coffey.

Mr. Coffey provided a presentation on a proposal for Bucket 2 funding that seeks long-term durable solutions for improving Lake Mead and improving its levels.

8. MANAGEMENT REPORTS

a. Subject: Colorado River Manager's Report

Presented by: Bill Hasencamp, Manager, Colorado River Resources

Mr. Hasencamp's report included an update on Lake Powell runoff levels.

The following Directors provided comments or asked questions:

1. Peterson

b. Subject: Bay-Delta Manager's Report

Presented by: Randall Neudeck, Manager, Bay-Delta Programs

Mr. Neudeck's report included an operations update on the Delta and announced Linda Smith's retirement from Metropolitan.

c. Subject: Water Resource Management Manager's Report

Presented by: Brad Coffey, Manager, Water Resource Management

Mr. Coffey's report included updates on the Water Supply and Drought Management resuming in the fall, future updates as Water Resource Management Manager, and water supplies and storage.

The following Directors provided comments or asked questions:

1. Ortega
2. Smith

Staff responded to Directors' questions and comments.

d. Subject: Chief Sustainability Resiliency and Innovation Officer's Report

Presented by: Liz Crosson, Chief, Sustainability Resiliency & Innovation Officer

Ms. Crosson provided an update on Sustainability, Resiliency and Innovation's activity.

The following Directors provided comments or asked questions:

1. Miller

Staff responded to Directors' questions and comments.

9. FOLLOW-UP ITEMS

None

10. FUTURE AGENDA ITEMS

None

11. ADJOURNMENT

The next meeting will be held on August 14, 2023

The meeting adjourned at 5:05 p.m.

Tracy Quinn
Chair



● **Board of Directors**
One Water and Stewardship Committee

8/15/2023 Board Meeting

7-3

Subject

Authorize amendments to the Cyclic Cost-Offset Program terms; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

Staff seeks authorization to amend the Cyclic Cost-Offset Program (CCOP) terms. Metropolitan's Board authorized the current terms for cyclic agreements in 2017. Cyclic agreements allow the pre-delivery of imported water for groundwater replenishment or surface storage in excess of normal deliveries, thus increasing the use of local infrastructure. This water is then purchased later when the agency needs groundwater replenishment, later pumps the water, or uses the water stored in any other way.

In 2019, the Board approved creating the CCOP to credit an agency for the increased costs to deliver water to cyclic accounts in times of surplus as designated by the General Manager. The credit for additional costs reduces a financial barrier for member agencies and enhances Metropolitan's capture of surplus water when Metropolitan seeks to maximize its local water storage. Feedback from member agency managers and the One Water and Stewardship Committee indicated that more water could be captured if terms of the CCOP were modified. Although Metropolitan is currently exercising all existing Water Surplus Drought Management actions and is looking into new storage options, there are over 400,000 acre-feet (AF) of State Water Project (SWP) supplies that could be lost.

This action amends the CCOP by: (1) increasing the maximum credit amount from \$264 to \$354/ AF; (2) extending the time to purchase the water from 5 to 10 ten years; (3) increasing the maximum credit for documented evaporative or groundwater losses; and (4) providing the General Manager and staff additional flexibility to initiate deliveries and report to the Board. These changes would provide additional flexibility and encourage more participation to capture additional surplus supplies that may otherwise be lost. This action does not amend the terms of the cyclic agreements for water stored when the CCOP is not implemented by the General Manager.

Background

Winter storms this year greatly improved SWP supplies, and the Department of Water Resources announced they could deliver 100 percent of the SWP allocation (nearly 2 million AF for Metropolitan). This allocation—combined with low demands, additional interruptible SWP supplies (Article 21), and abundant local runoff to replenish groundwater basins—resulted in more than 400,000 AF at risk of loss to the region. Staff continues to look for opportunities to capture more of this excess.

Metropolitan uses cyclic agreements to capture surplus water by delivering imported water to local cyclic accounts. Member agencies then purchase water from the cyclic accounts over a specified payment schedule. While member agencies are taking actions to capture surplus supplies at Metropolitan's request during designated times of surplus, some actions increase costs incurred by the cyclic participants. The Board approved the CCOP in 2019 to provide credits to member agencies to offset costs in times of water surplus for Metropolitan so as to increase deliveries into cyclic accounts. In March 2023, staff projected that supplies would exceed Metropolitan's ability to store water and recommended the General Manager initiate the CCOP. The CCOP became available to offset increased member agency costs incurred when storing above base deliveries. Although member agencies

are currently participating in the CCOP, program modifications would streamline implementation and further encourage participation. It is in Metropolitan's best interest to maximize usage of the CCOP in a year when approximately more than 400,000 AF could be lost. Although the CCOP will capture only a small portion of that amount, it remains a cost-effective local storage option for the region's benefit compared to other storage programs. For example, existing storage programs such as Metropolitan's groundwater banking programs in the Central Valley have full cycle costs between \$350 to \$500/AF.

Cyclic Program and Cyclic Cost-Offset Program

On April 11, 2017, the Metropolitan Board of Directors authorized the General Manager to enter into cyclic agreements with member agencies, based on updated terms. Cyclic agreements provide Metropolitan with flexibility to respond quickly to surplus conditions by pre-delivering water into groundwater basins and surface reservoirs ahead of agency demands, making the water available to help in the event of an emergency or future dry year. Deliveries to the cyclic accounts are at Metropolitan's discretion but are made under mutual agreement. Prior to making the deliveries, Metropolitan and the member agency agree on a delivery amount and enter into a purchase schedule that provides the agency time to purchase the amount delivered. Metropolitan waives the Capacity Charge but bills the member agency the full-service water rate in effect when the water is purchased from the cyclic account, as well as all other components of Metropolitan's full-service water rate, including the addition of those purchases to the determination of that agency's Readiness-to-Serve Charge. The Capacity Charge is waived because the pre-deliveries are made at Metropolitan's discretion. There are no charges to Metropolitan to put or to recover water from the cyclic accounts. Since there are no storage costs, the program is cost competitive with other storage alternatives. Metropolitan currently has eleven cyclic agreements with a total cyclic storage capacity of up to 545,000 AF. Metropolitan is not required to deliver the maximum amount of water in each agreement and may terminate deliveries under the Program with 15 days' notice.

On April 9, 2019, Metropolitan's Board approved a program authorizing the General Manager to enter into agreements to provide a credit to offset costs associated with increased deliveries to cyclic accounts when the General Manager determines that availability of imported supplies exceeds Metropolitan's ability to manage those supplies for the region. The CCOP addressed member agency feedback that cyclic agreements do not have a mechanism to offset the higher cost of actions needed to capture the increased volumes of imported water. To determine the amount of credit for each agency, staff considers additional costs the agency incurs (including potential avoided costs) to capture supplies beyond the amount originally expected. Credits are only made available to offset the increased costs a member agency incurs to accommodate Metropolitan's delivery. The credits do not reduce the full-service cost of purchasing water from Metropolitan and are instead a cost of service incurred by Metropolitan. Staff determines which costs are eligible for an offset credit. Staff is working with member agencies to execute new agreements and amend existing agreements to incorporate the proposed 2023 credit rate and other proposed terms if approved by the Board. Metropolitan currently has nine CCOP agreements and plans to deliver about 76,000 AF this calendar year.

Proposed Changes

This action item builds off the May oral report provided to the One Water and Stewardship Committee and includes feedback from the committee and member agency managers. Staff recommends the following changes to the CCOP:

Increase Credit Amount. Currently, a cost-offset credit is available for up to \$264/ AF, which represents the initial board-approved amount of \$225 in 2019, adjusted per Consumer Price Index (CPI) each year as also approved by the Board. The proposed modified cost-offset credit would be \$354 in 2023, adjusted pursuant to CPI in future years. The new credit amount would be made available to agencies that completed cyclic deliveries beginning July 1, 2023. The final credit will be based on performance and the estimated additional costs incurred by the member agency as a result of taking delivery of additional water supplies at Metropolitan's request.

The \$354/AF cost to Metropolitan is competitive compared to the unit cost for other storage alternatives, such as Metropolitan's SWP groundwater storage programs. Unit storage costs for alternative programs range from \$350 to \$500 per acre-foot. In subsequent years, the credit amount will be adjusted every year per CPI as is the case with the current approved credit amount.

Increase the time allowed to purchase water out of the cyclic account. Currently, member agencies must purchase supplies delivered under the CCOP within five years. Increasing the time allowed to purchase supplies out of the account to ten years provides the member agencies with added flexibility in generating the revenues to purchase the pre-delivered supplies and thus encouraging the member agencies to take delivery of increased supplies. Cyclic agreements already have a term of ten years.

Modify the Loss Credit. Currently, a cost-offset credit is available for surface storage, recognizing a five percent loss for each year the water stays in the cyclic account for up to two years. The current evaporative loss is capped at a maximum of ten percent if an agency purchases the water over a period longer than two years. Modifying the loss credit is recommended based on feedback from the One Water and Stewardship Committee and member agency managers that evaporative losses for surface water reservoirs are dependent on reservoir size and shape, and weather. In addition, consideration for groundwater losses was suggested. The loss credit will be modified to include consideration of groundwater losses and to recognize evaporative and groundwater losses the member agency can demonstrate and is approved by staff. The loss credit would be assessed each year the agency makes a purchase out of the cyclic account for up to ten years and will be reconciled each year it is used. The sum of all the cost-offset credit components provided under the CCOP shall not exceed the maximum CCOP credit amount in effect at the time Metropolitan delivers the water to the agency.

Change Initiation and Reporting Process. Currently, the window to capture surplus supplies is often limited. For example, Article 21 supplies on the SWP can become available with little notice and only be available for a few weeks. The General Manager initiates the CCOP once the available supplies are expected to exceed available management actions, which means waiting for changes in SWP allocations or other availability rather than changes in conditions that indicate a likely surplus. Allowing the General Manager to initiate the CCOP once water supply conditions change and staff projects that water may be spilled—without waiting for official changes in allocations or other availability—may increase water delivered and stored in the region, thus improving reliability for all member agencies and providing a regional benefit in the same manner as other water management programs. The added flexibility will provide more time for taking water resource management actions.

Staff is also proposing a change in the manner of presenting the CCOP implementation to the Board. Currently, following the General Manager's initiation of the CCOP, staff brings an item to the next regularly scheduled board meeting. This item includes supporting information that led to the General Manager's decision and provides two alternatives: (1) a default take-no-action to allow CCOP deliveries; or (2) discontinue CCOP deliveries. The process will be modified to have the WRM Group Manager report on the CCOP initiation in their oral report and seek feedback if the Board wishes to review the decision and take an action at the next board meeting. This modification eases the requirement to automatically bring an item for action to the next regularly scheduled board meeting. If no director requests such an item, then deliveries will continue until the General Manager determines it is no longer necessary.

Summary

Under certain supply conditions, Metropolitan cannot manage all supplies and risks losing supply to the region that otherwise could help mitigate the effects of dry years that occur within ten years of delivery. By providing a higher cost-offset credit for surplus deliveries into cyclic accounts, providing a longer time to purchase the water out of the account, and more broadly recognizing losses, member agencies can increase the amount of water delivered to the region while benefiting all member agencies in the same manner as other local storage programs. Additionally, the streamlining of the process to report to the Board on the CCOP implementation will avoid confusion and save staff time. With these amendments to the CCOP, Metropolitan has added flexibility to administer the program, and member agencies are further supported and encouraged to help manage additional supplies.

Policy

Metropolitan Water District Administrative Code Section 4209: Contracts

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

By Minute Item 50793, dated April 10, 2017, the Board authorized the General Manager to enter into cyclic agreement with Metropolitan's member agencies.

By Minute Item 50888, dated July 11, 2017, the Board authorized the General Manager to enter into cyclic agreements providing a credit of up to \$225 per acre-foot for in-lieu deliveries.

By Minute Item 51563, dated April 9, 2019, the Board approved the General Manager to enter into Cyclic Cost-Offset Credit Program Agreements providing a credit of up to \$225 per acre-foot for deliveries, to be escalated per CPI.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is categorically exempt under the provisions of CEQA and the State CEQA Guidelines. In particular, the proposed action consists of amending existing cyclic agreements for the delivery of surplus water at existing public or private facilities with negligible or no expansion of use and no possibility of significantly impacting the physical environment. Accordingly, the proposed action qualifies as a Class 1 Categorical exemption (Section 15301 of the State CEQA Guidelines)

CEQA determination for Option #2:

None required

Board Options

Option #1

Authorize amendments to the Cyclic Cost-Offset Program terms.

Fiscal Impact: Up to \$354/ AF cost-offset credit to participating member agencies in 2023. The cost of the credit to Metropolitan represents a storage cost comparable to other costs for local and out-of-region storage. This program is included in the FY 23/24 Water Supply Program budget. The potential future cost of issuing credits would be included as a Supply Program line item of future biennial budget proposals in a fashion consistent with other storage programs. If cost-offset programs are issued in a given year, they would be accounted for similarly to other supply programs. These costs would be captured in the Chief Financial Officer's quarterly financial report under supply program costs.

Business Analysis: Metropolitan would improve regional reliability through the delivery of water to the region that would have otherwise been lost. Member agencies have informed staff that the current credit amount does not sufficiently cover the additional costs incurred due to taking action at Metropolitan's request. Increasing the cost-offset credit to \$354 per acre-foot will allow member agencies with low local supply production costs to be made financially whole when accepting cyclic deliveries. Further, the delivery of the supplies to the region incurs lower power costs in wet years than in dry years because of higher hydroelectric generation on the State Water Project. Metropolitan will also generate additional revenue in the future from its ability to sell the additional water it is able to receive and store pursuant to the Program.

Option #2

Do not authorize amendments to the Cyclic Cost-Offset Program terms.

Fiscal Impact: None at this time. However, foregoing the storage of water available in the present may create additional water acquisition costs in the future.

Business Analysis: Not implementing the credit in cyclic agreements could decrease the water supplies available to the region and result in a potential loss of a future full-service water sale and an increase in costs to acquire other additional water for the region.

Staff Recommendation

Option #1



Brad Coffey
Manager, Water Resource Management

8/3/2023
Date



Adel Hagekhalil
General Manager

8/8/2023
Date

Ref# wrm12694296



One Water and Stewardship Committee

Authorize Amendments to the Cyclic Cost-Offset Program Terms

Item 7-3

August 14, 2023

One Water and Stewardship Committee

Committee Feedback

- Changes to the credit amount
 - Consideration of larger evaporative and other losses
- Process for reporting to the Board
 - Once the Program is implemented
- DAC or equity-related access to the Program
- SWP Dependent area priority

Cyclic Cost-Offset Program (CCOP)

Background

- Board Authorization April 2019
- General Manager authority to:
 - Issue cost offset in form of a credit to member agencies to capture additional water in cyclic accounts when
 - Risk of not capturing all available imported supplies
 - Member agency increases capture and incurs costs above normal supplies

CCOP Current Terms



- Member agency must:
 - Receive more water than originally projected
 - Purchase the delivered water on an agreed-upon schedule within 5 years



- Cost offset up to \$264 per acre-foot.
 - Includes evaporative loss credit of 5% for up to two years



- Water purchased at the full-service water rate in effect at time of purchase



- Deliveries at Metropolitan's discretion
 - No capacity charge

Increase Purchase Time

Proposed
Changes

Current

5 Year Purchase
Schedule

Proposed

10 Year Purchase
Schedule

Metropolitan and the agency would agree on the purchase schedule prior to making deliveries.

Increase Credit Amount

Proposed
Changes

Current	Proposed
\$264 / AF	\$354 / AF

The available credit amount will increase annually by CPI. The final credit will be based on performance.

Proposed Changes

Modify the Loss Credit

Current

Evaporative loss credit of 5% for up to 2 years of storage

Proposed

Loss credit available for cumulative evaporative and groundwater losses

- Agency must provide documentation of losses
- Limited by max credit in effect at time of delivery
- Applied each year a purchase is made

Change Initiation and Reporting Process

Proposed Changes

Current

- When available supplies are expected to exceed available management actions.
- Staff report to the Board following initiation.

Proposed

- As soon as staff project we will spill water.
- WRM Group Manager to report in their oral report on the CCOP initiation and seek feedback from Board on taking an action at the next Board meeting.

Cyclic Cost-Offset Program (CCOP)

Summary

- Proposed modifications formed from feedback received from member agency managers and the OWS Committee
- Member agencies help increase the amount of water brought to the region
 - **Supplies managed locally within ten years**
 - Dry-years
 - Emergencies
- Increased flexibility to administer the program further supports member agency participation

Board Options

Options

Option #1:

Authorize amendments to the Cyclic Cost-Offset Program terms.

Option #2:

Do not authorize amendments to the Cyclic Cost-Offset Program terms.

Board Options

Staff Recommendation

Option #1





● **Board of Directors**
One Water and Stewardship Committee

8/15/2023 Board Meeting

7-4

Subject

Authorize implementation of a tree rebate modification to the Turf Replacement Program; the General Manager has determined that the proposed actions are exempt or otherwise not subject to CEQA

Executive Summary

On February 12, 2019, Metropolitan’s Board of Directors authorized several modifications to the Turf Replacement Program. Metropolitan Board, staff, and member agencies designed this conservation element as an annually offered program, which included sustainability requirements for removing turf and replacing it with drought-tolerant landscapes. This letter describes a proposed approach to add a tree rebate as another feature to increase the environmental sustainability and benefits of the program.

Timing and Urgency

Upon approval, the tree rebate is expected to be added to the program by the end of 2023.

Details

Background

Conservation and water use efficiency have played a key part in Metropolitan’s Integrated Water Resources Plan (IRP) for decades and will continue to move forward through the Climate Adaptation Master Plan for Water (CAMP4W). Metropolitan’s regional conservation program is an important tool to help meet the conservation goals established by the IRP. This program provides financial incentives to encourage the installation of drought-tolerant landscapes and water-saving fixtures and devices.

During the last drought, the most popular water efficiency program was the Turf Replacement Program. Turf replacement provided long-term benefits by focusing public attention on a necessary transition to more drought-tolerant landscapes throughout Southern California. The Turf Replacement Program provides water savings while ensuring that these new landscapes are environmentally sustainable gardens.

The environmental benefit and importance of trees have been well established in the landscaping industry. Trees provide benefits such as urban cooling, carbon sequestration, and air quality improvements. The promotion of trees in the Turf Replacement Program will increase the environmental sustainability of these landscapes. It also directly addresses concerns about an increase in the urban heat island effect due to the removal of grass lawns.

Proposed Approach

The tree rebate will be added to the Turf Replacement Program as an additional optional incentive on top of the base \$2 per square foot incentive currently offered. All previously set program controls, such as the \$43 million funding cap, required project elements, and pre- and post-inspections, will remain in place.

Proposed Changes

- Add \$100 rebate per tree.
 - Maximum of five trees, or up to \$500 rebate per application.
 - 15-gallon minimum tree size required to be eligible for rebate.
- Change program guidelines to allow each newly planted tree to equal three plants.
 - Current guidelines require three plants per 100 square feet of rebated project area.

Supporting Information

The average cost of a 15-gallon tree ranges from \$80 to \$150, depending on the species of tree. The chosen rebate of \$100 per tree will cover most or all of the cost of the tree. The tree rebate option will include resources and guidelines such as a tree definition, recommended tree list, and tree exclusion list. The focus of the rebate will be on native trees with the greatest environmental benefits while allowing flexibility for applicants to choose trees based on size, firescaping needs, and other concerns.

Project Milestone

If approved by the Board, staff will implement the proposed changes. Staff will monitor data from the program and report progress and results to the Board.

Policy

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

By Minute Item 51496, dated February 12, 2019, the Board authorized changes to the Turf Replacement Program.

By Minute Item 51166, dated April 10, 2018, the Board authorized the Landscape Transformation Program.

By Minute Item 50358, dated January 12, 2016, the Board adopted the 2015 Integrated Water Resources Plan Update, as set forth in Agenda Item 8-3 board letter.

By Minute Item 50134, dated May 26, 2015, the Board authorized a budget increase and modifications to the Turf Removal Program.

By Minute Item 49542, dated September 10, 2013, the Board authorized new conservation program initiatives.

By Minute Item 49068, dated May 8, 2012, the Board authorized changes to Metropolitan's Water Conservation Program.

By Minute Item 48772, dated August 16, 2011, the Board adopted the Long-Term Conservation Plan and revisions to the water conservation policy principles.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed actions are not defined as a project under CEQA because they involve continuing administrative activities, such as general policy and procedure making (Section 15378(b)(2) of the State CEQA Guidelines). In addition, the proposed actions are not subject to CEQA because they involve other government fiscal activities, which do not involve any commitment to any specific project which may result in a potentially significant physical impact on the environment (Section 15378(b)(4) of the State CEQA Guidelines).

CEQA determination for Option #2:

None required

Board Options

Option #1

Authorize implementation of the tree rebate option for the Turf Replacement Program.

Fiscal Impact: Estimated \$830,000 increase in Turf Replacement Program expenditures per year, which equates to 3 percent of total program budget.

Business Analysis: The proposed changes may increase participation in the Turf Replacement Program.

Option #2

Take no action

Fiscal Impact: None

Business Analysis: Staff would explore other ways to encourage tree installation as part of the Turf Replacement Program.

Staff Recommendation

Option #1

	8/3/2023
Brad Coffey	Date
Manager, Water Resource Management	

	8/7/2023
Adel Hagekhalil	Date
General Manager	

Ref# wrm12689101



One Water and Stewardship Committee

Addition of Tree Rebate to Turf Replacement Program

Item 7-4

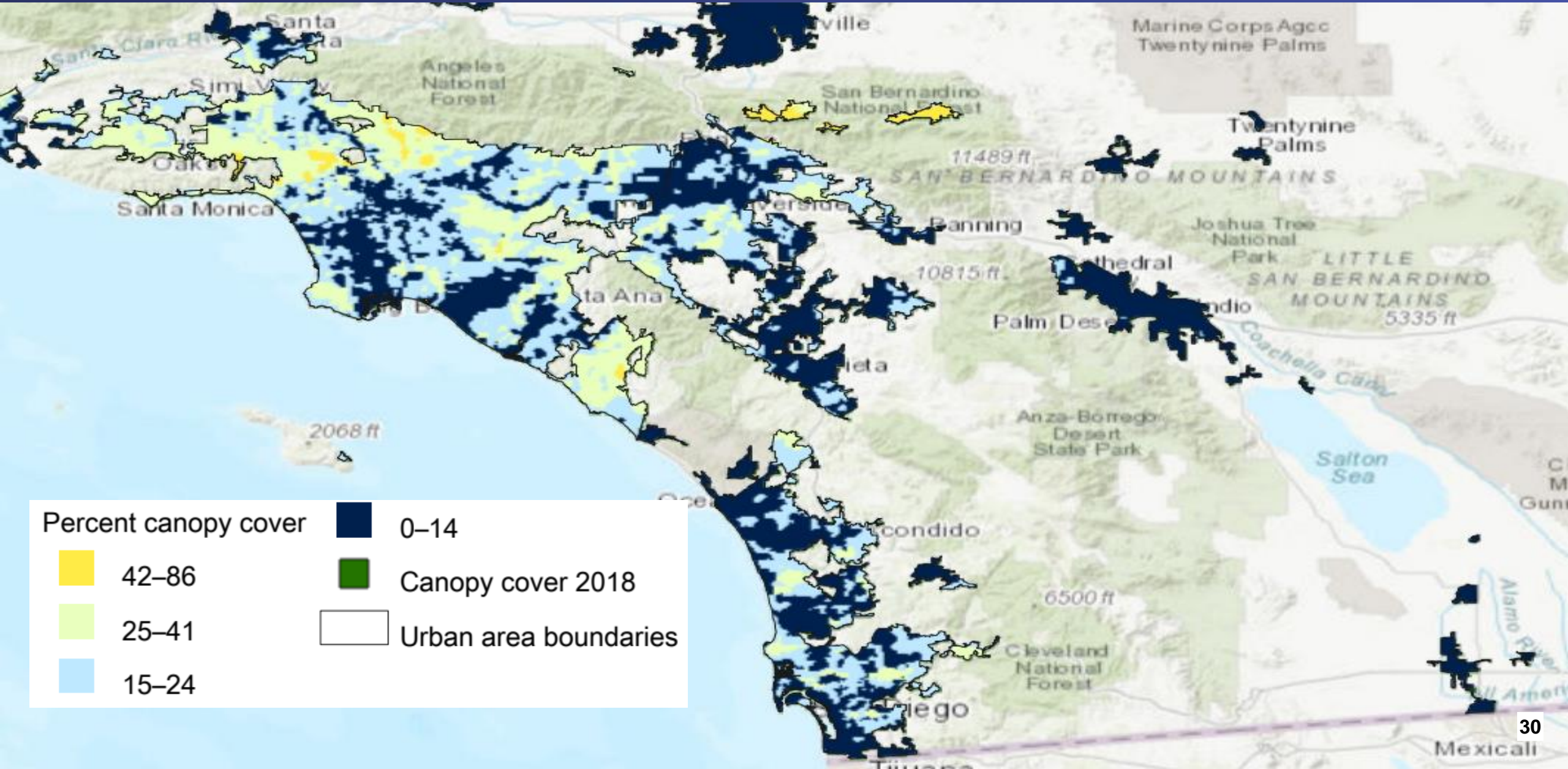
August 14, 2023

Program Development

- Water use efficiency program advisory committee request
 - Details developed by sub-committee of 6 agencies
- Met with NGOs to discuss program details and resources
 - Positive feedback on program idea and details
 - Provided resources and expertise on recommended tree list and exclusion list



USDA Urban Tree Canopy Map



Tree Rebate Program

Benefits of Trees in Turf Replacement Program

- Urban cooling
 - Trees reduce temperatures by 2-6° F
- Tree root infiltration increases water storage in soil
- Replacing lawn with trees and CA Friendly landscaping reduces water use by at least 30%
- Increases green spaces and urban forests in urban areas

Tree Rebate Program

Other Benefits of Trees

- Urban cooling and energy conservation
- Carbon sequestration
 - Removes 48 lbs. of carbon dioxide per year
- Promotes healthy soil and reduces erosion
- Air quality improvements
 - Filters up to 43 lbs. of particle pollutants per year
- Increases and protects biodiversity
- Increases neighborhood property values
- Reduces stress and improves health

Program Details

- Rebate added to Turf Replacement Program for Residential and Commercial, Industrial, and Institutional properties
- \$100 rebate per tree planted; max 5 trees
 - 15-gallon minimum size
 - Edible fruit trees allowed in residential projects
- 1 new tree = 3 plants



Tree Rebate Program

Program Resources

- Tree definition
- Exclusion list – hedges, invasives, non-native palms
- Recommended tree plant list
- Care and maintenance/watering guide

Equivalent Incentive Estimation

	Residential	Commercial
Avg # of Apps Received Per Month(3-month AVG)	516	54
Avg Square Ft. Per Application	1,732	14,725
MWD Turf Replacement Incentive	\$2.00	\$2.00
Equivalent Additional Incentive Per Sq Ft. w 1 Tree Bonus	\$0.06	< \$0.01
Equivalent Additional Incentive Per Sq Ft. w 5 (max) Tree Bonuses	\$0.29	\$0.03

Budget Impacts

	Residential	Commercial
Avg # of Apps Received Per Month (3-month AVG)	516	54
Avg Square Ft. Per Application	1,732	14,725
Dropout Rate	40%	40%
Additional Annual Expenditures for Tree Rebate (Assumes 2 Trees/App)	~\$750k	~\$78k

- Annual Tree Rebate expenditures expected to cost up to \$830K based on current activity and dropout rates = 3% of total projected annual expenditures for TRP

Options

Staff Recommendation

- Option #1
Authorize Implementation of the Tree Rebate Option for the Turf Replacement Program
- Option #2
Take no action



STATE WATER CONTRACTORS

Activities, Purposes and Benefits

By: Jennifer Pierre, General Manager

August 14, 2023



The “State Water Contractors”



- Non-Profit Mutual Benefit Corporation
- Membership open to all Contractors
- 27 of 29 Contractors represented
- Board of Directors (MWD has 1 seat of 9)
- Coordinate across members to amplify consistent positions related to the SWP

State Water Project Contractors

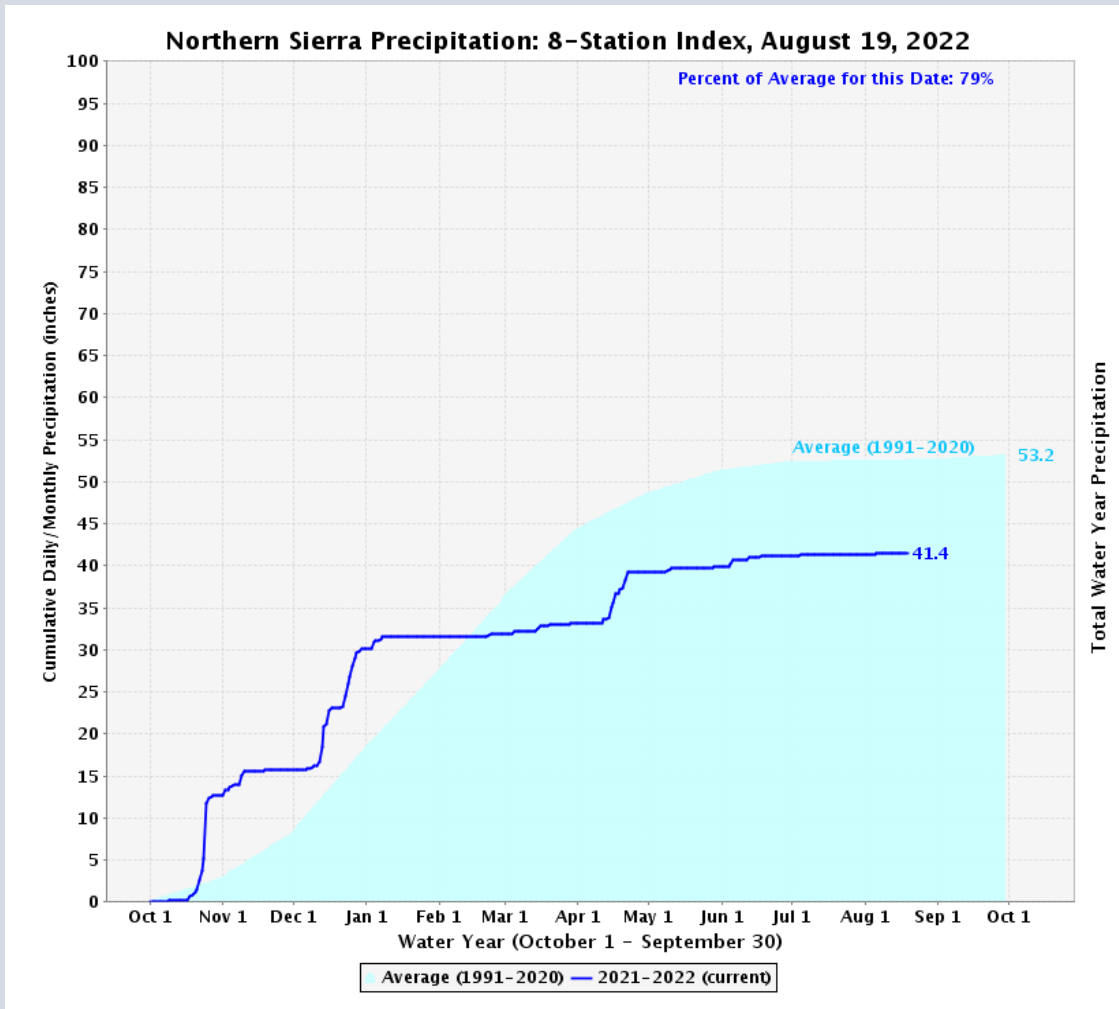
- Serving:
 - 27 million Californians;
One in 12 Americans
 - 750,000 acres of productive farmland
- Invested:
 - \$30B since construction began



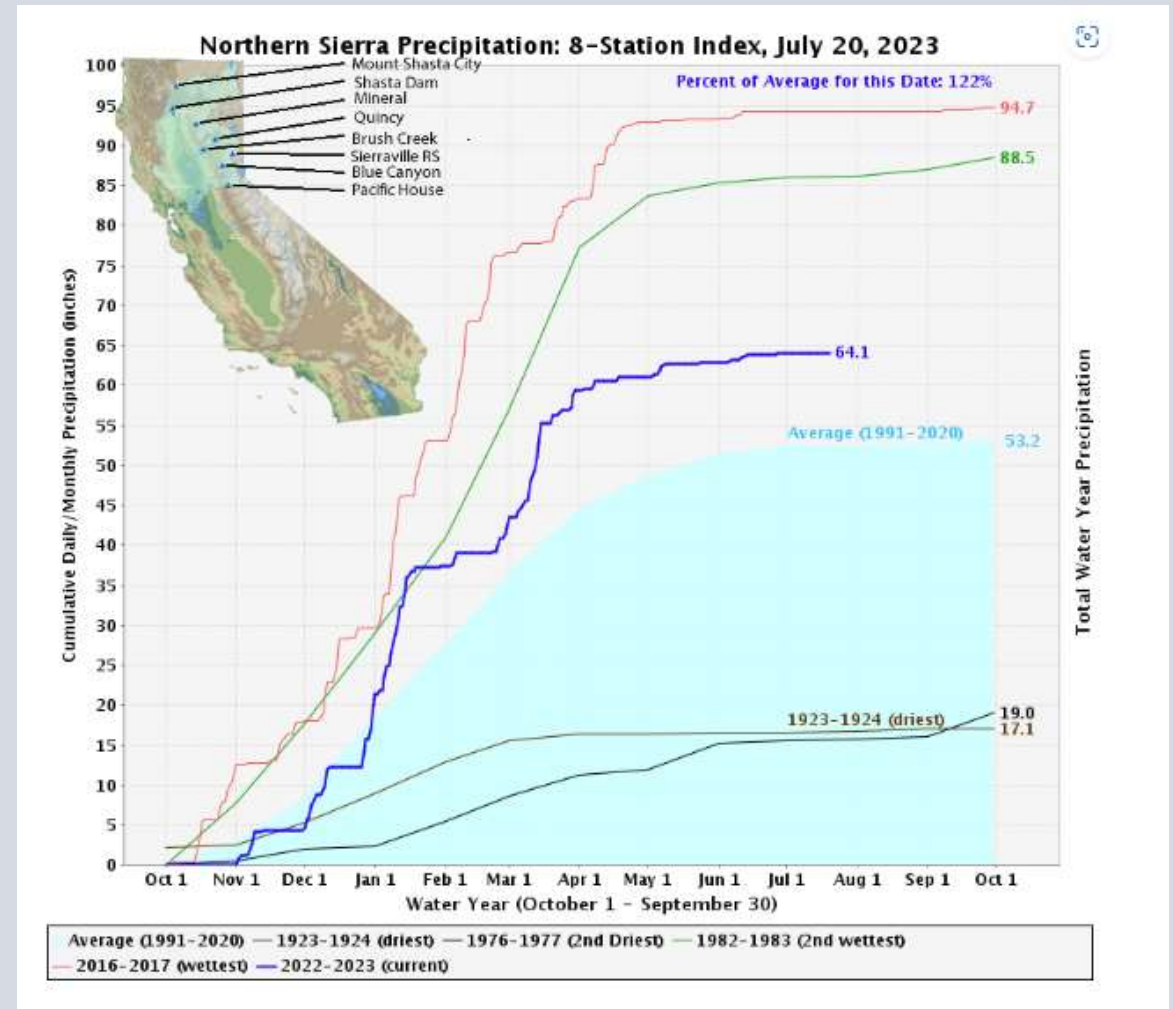
SWC Mission Statement

To advocate on behalf of our members for **improved supply reliability and water quality** based on **sensible, science-based policies** related to the State Water Project that result in **sustainable and cost-effective management** of the SWP for California's citizens, economy and environment.

Last Year (2021-22)



This Year (2022-23)



Prominent stair step patterns – need to move water when available for storage/climate resilience.

State Water Contractors

APPROACH AND PURPOSE

- Limited staff (9)
- Coordinate across SWCs to ensure consistent positions and messages
 - Always seek unanimity
- Work with DWR staff, management and executives
- Relationships with DFW, NMFS, FWS, CalEPA, Governor's Office, etc.
- Supplement/coordinate with MWD Bay-Delta staff



SWC Objectives for 2023/24



- Business Practices
- Energy
- Infrastructure
- Outreach
- Science
- Water Supply

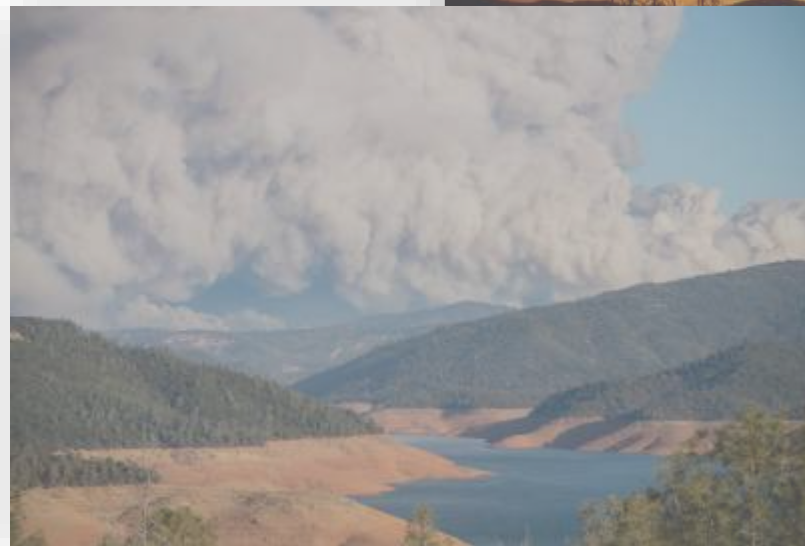
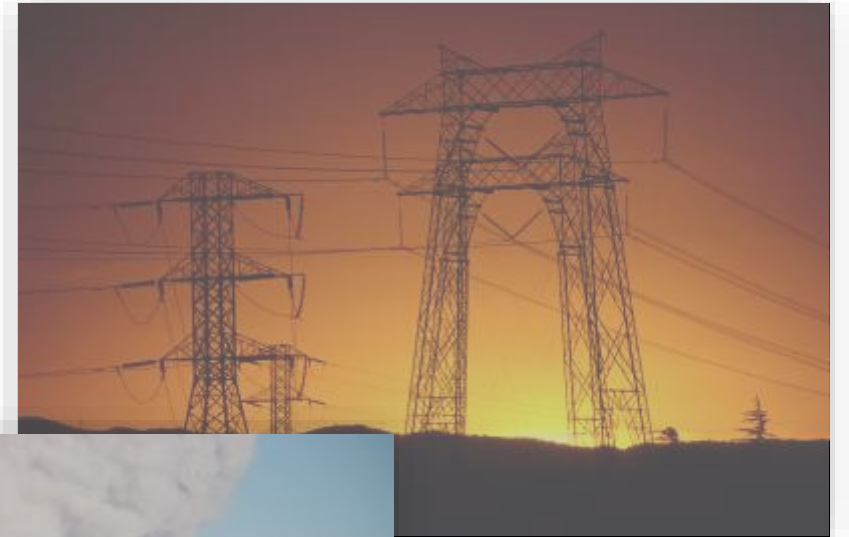
Affordability/Business Practices

- Process of affordability
- Work with MWD to address contract protest items
- Coordination with SWP Chief Financial Manager
- Contract extension implementation
- Identifying public benefits of the SWP
- MWD dues discounts



Energy

- Contractor commitment to 100% renewables
 - SWP is 70% renewable now; 100% by 2035
- FERC Relicensing – Oroville and SoCal facilities
- Tracking PG&E and SoCal Edison rate cases
- SB1020 Implementation
 - SB49 report
- Energy Roadmap



Infrastructure

- Asset management program
- Aqueduct subsidence
- SWP dam safety
- Sisk Dam seismic retrofit federal cost share
- SWP storage investigations



Outreach



- SWP education and awareness
- Highlighting SWC science program and results
 - Coordination with MWD scientists
- Responding to legislative and regulatory activities
 - Coordination with MWD and other advocates to ensure consistency in positions

Science



- Administering **approx. 35** contracts
- Science Program Solicitation (**NEW**)
- Coordinating PWA efforts
- CSAMP and CAMT participation
- Research results symposiums
- Salmon recovery
- Responsive science investments to inform 2023 management

Water Supply

- Federal ESA Biological Opinion Litigation and Reconsultation
- State ESA incidental take permit
- Voluntary Agreement Framework
 - Could resolve litigation issues
- Delta Conveyance
- Hydrology/operations tracking and reporting
- Water rights proceedings
- Coordination among SWCs for transfers, exchanges and operations



2022 Highlighted Accomplishments

- Implemented the dry year transfer program
- Engaged with the SWB on TUCPs and curtailment SWP water rights issues
- Signed VA MOU/term sheet
- Provided support and coordination related to the Certified Financial Manager role
- Significant progress on Sisk Dam cost share
- Engaged in interim operations plan
- Released DCP Draft EIR
- Advocated for positive amendments to SB1020, reducing cost by over \$2B
- Completed Energy Roadmap
- Hosted Science Symposium on San Joaquin River import:export ratio
- Began SWP storage investigations
- Moved forward on contract extension, including successful litigation
- Held a legislative briefing on SWP issues

Overall 2023/24 Priorities

Improved financial tracking & understanding

Resolution of environmental litigation/proceeding with Voluntary Agreement

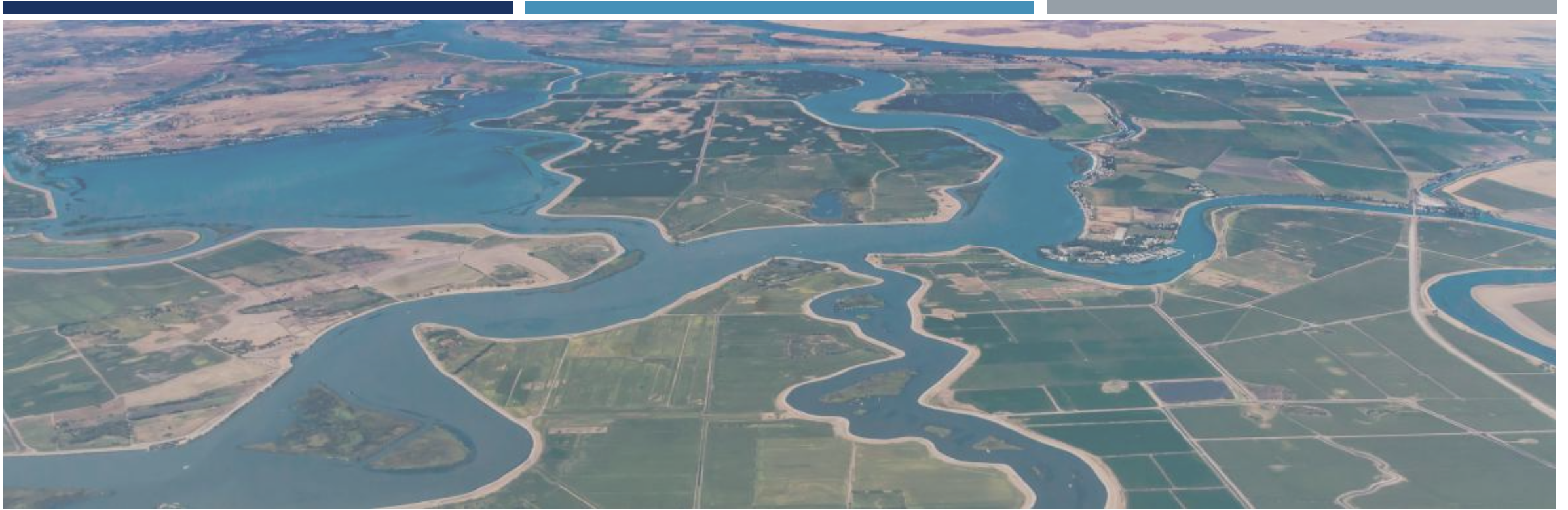
Energy Roadmap & SB49 implementation

Continued science & research engagement

Delta Conveyance planning

SWP Storage

Continue public outreach on SWP priorities



Questions?





One Water and Stewardship Committee

Conservation Update

Item 7c

August 14, 2023

Current Conservation Program Expenditures

FYs 2022/23 & 2023/24⁽¹⁾

	Paid ⁽²⁾	Committed ⁽³⁾
Regional Devices	\$6.5 M	\$6.4 M
Member Agency Administered	\$7.9 M	\$4.8 M
Turf Replacement	\$22.4 M	\$38.4 M
Advertising	\$6.9 M	\$0.1 M
Other	\$2.0 M	\$1.1 M
TOTAL	\$45.7 M	\$50.8 M

- (1) The Conservation Program biennial expenditure authorization is \$86M.
- (2) Paid as of 7/1/2022-6/30/2023 Financial reporting on cash basis.
- (3) Committed dollars as of July 10, 2023.

Current
Conservation
Program
Activity
FYs 2022/23 &
2023/24⁽¹⁾



Turf Replacement Rebates:

June: 1,080,324 ft² removed

FY2022/23-FY2023/24: 10,471,445 ft² removed



Toilets:

June: 733 units rebated

FY2022/23-FY2023/24: 23,926 units rebated



Sprinkler Nozzles:

June: 1,123 units rebated

FY2022/23-FY2023/24: 23,323 units rebated

Lifetime Water Savings to be achieved by all rebates in June 2023: 5,425 AF

FY2022/23-FY2023/24: 62,396 AF lifetime water savings

Metropolitan recognized by the Alliance for Water Efficiency



2023 Water Utility Member of the Year Award





● Colorado River Management Report

Summary

This report provides a summary of activities related to management of Metropolitan’s Colorado River resources for the month of July 2023.

Purpose

Informational

Detailed Report

2007 Interim Guidelines Draft Supplemental Environmental Impact Statement (SEIS) Update

The U.S. Bureau of Reclamation (Reclamation) temporarily withdrew the draft SEIS to fully analyze the alternative proposed in a May 22, 2023, letter from California, Arizona, and Nevada that would conserve at least 3.0 million acre-feet of water on top of existing shortage and Drought Contingency Plan reductions through 2026. This proposal is called the “Lower Basin Plan”. The Lower Division States requested that Reclamation fully analyze the Lower Basin Plan as an action alternative in the SEIS. The seven Colorado River Basin States (Basin States) also sent a letter requesting that Reclamation pause the SEIS and fully analyze the Lower Basin Plan as an action alternative. After Reclamation has completed its analysis, it will publish a revised draft SEIS in September/October 2023. Following the public comment period on the revised draft SEIS, Reclamation anticipates finalizing the SEIS early next year. Metropolitan staff is working with other California contractors to develop the forbearance agreements necessary for implementation. Part of the Lower Basin Plan is execution of contracts with Reclamation using Inflation Reduction Act funds to implement water conservation activities in the Lower Basin. To date, only one contract has been approved (a contract with Coachella Valley Water District). There are four additional contracts in California waiting for approval. Reclamation hopes to approve all the contracts prior to issuing the revised draft SEIS.

Post-2026 Operational Guidelines Environmental Impact Statement Scoping

Reclamation is currently receiving public comments on the development of the Environmental Impact Statement (EIS) for the Post-2026 operational guidelines and strategies for Lake Powell and Lake Mead. Reclamation is seeking comments on the purpose and need of the EIS, and scope of the analysis. The Basin States are working to develop a joint scoping comment letter. Metropolitan staff is working with the Basin States and other agencies to develop a Basin States scoping comment letter. Comments are due August 15, 2023.

Inflation Reduction Act (IRA) Drought Mitigation Funding Bucket 2 Update

Reclamation sent a letter to Lower Basin Colorado River contract and entitlement holders requesting proposals for long-term durable system efficiency improvement projects that result in water conservation benefitting the lower Colorado River System and its water users. This is the next phase of the Lower Colorado River Conservation Program (using “Bucket 2” IRA funds) intended to provide new opportunities to fund system conservation and efficiencies in the Lower Basin that lead to durable long-term solutions for the Colorado River System that results in additional volumes of water remaining in Lake Mead. The deadline to submit proposals has been extended from July 19 to August 18, 2023. Metropolitan staff continue to refine its proposal that reflects input received from Metropolitan’s member agencies and Board of Directors.



● Bay-Delta Management Report

Summary

This report provides a summary of activities related to the Bay-Delta for July 2023.

Purpose

Informational

Detailed Report

Long-Term Delta Actions

Sites Reservoir

At the joint Sites Project Authority (Authority) Board and Reservoir Committee Meeting on July 21, the Reservoir Committee and Authority Board authorized the Executive Director to submit a request for the Sites Reservoir Project to receive the Governor’s certification as an Senate Bill 149 eligible infrastructure project. This request includes agreeing to pay costs of trial court, court of appeal, and preparing the record of proceedings. Making the request to the Governor now is necessary because the Senate Bill 149 certification must occur prior to the approval of the Final Environmental Impact Report/Environmental Impact Statement by the Authority which is currently scheduled for certification in September 2023. If certified, any California Environmental Quality Act litigation would be expedited, with the goal of completing trial court and appellate proceedings within 270 days of filing of the certified administrative record.

Near-Term Delta Actions

Science Update

Throughout the month of July, science staff participated in the final presentations of multiple analyses covering topics including Delta smelt entrainment, management of longfin smelt, and habitat actions related to the 2020 Incidental Take Permit and 2019 Biological Opinions.

Delta Island Activities

Following the Board’s action to accept the \$20.9 million dollar grant from the Delta Conservancy for the Webb Tract Mosaic Landscape Project (Project), staff is preparing a Board action to be heard at the October 2023 Engineering, Operations, and Technology Committee meeting to amend the current biennial Capital Investment Plan to add the Project and award consultant agreements for design, environmental planning, and scientific analyses. Award of these agreements and signing of the finalized grant agreement with the Sacramento-San Joaquin Delta Conservancy will kick off Phase 1 of the Project. Staff will return to the Board for approval of environmental documentation before proceeding with Phase 2.

On July 11, Metropolitan’s Board approved the purchase of the remaining flow meters in compliance with Senate Bill 88 (2016). Once this phase of meters are installed by the end of 2024, Metropolitan will have fulfilled its obligation under the approved ‘Plan for Phased Measurement Implementation’ for each of its Delta Islands. Continuous data collection for water diversions will be important for annual water use reporting to the Water Resources Control Board.

Staff is conducting final technical advisory meetings for the Delta Island Adaptations Project and developing concept-level adaptations recommendations for the draft/final ‘Outcomes’ report for Bouldin Island. This phase of the project is looking at landscape opportunities with the objectives to stop land subsidence, reduce greenhouse gas emissions, provide for sustainable agriculture, promote habitat restoration, and build collaboration for community science, agriculture, and ecoculture education through land use opportunities. The project team will

Board Report (Bay-Delta Management Report)

begin drafting the ‘Outcomes’ report, with a final report completed by end of 2023. Future reports will inform the Board on input received and final adaptation opportunities (pilot/research projects) for Bouldin Island.

Metropolitan Bay Delta Conservation Plan/California WaterFix and EcoRestore/Delta Conveyance Project (BDCP/CWF-CER/DCP) Expenditures

The following is a summary of Metropolitan’s cumulative BDCP/CWF-CER/DCP expenditures updated for the quarter ending June 2023. This report includes the total internal costs related to the BDCP, the CWF-CER alternatives, and the subsequent DCP efforts with the state administration.

Staff will continue to provide this report on a quarterly basis in the Bay Delta Management Report.

Total (July 2005 – June 2023)

BDCP/CWF-CER/DCP Internal MWD	Total Costs (18.0 yrs.)
Labor & Benefits ⁽¹⁾	\$ 37.70M
Professional Services	\$ 7.16M
Travel	\$ 1.80M
Other ⁽²⁾	\$ 0.18M
SUBTOTAL	\$ 46.84M
<u>Administrative Overhead</u>	<u>\$ 13.60M</u>
TOTAL	\$ 60.44M

⁽¹⁾ Labor costs include salary, leave and non-leave benefits

⁽²⁾ Other includes charges for materials and supplies, trainings & seminars, conferences & meetings, reprographics, and other incidental expenses

Quarterly Summary (July 2022 – June 2023)

	FY22-23 Q1	FY22-23 Q2	FY22-23 Q3	FY22-23 Q4
	Jul-Sep 2022	Oct-Dec 2022*	Jan-Mar 2023	Apr-Jun 2023
Labor	0.283M	0.273M	0.205M	0.258M
Professional Services	0.000M	0.001M	0.004M	0.033M
Travel	0.002M	0.000M	0.004M	0.004M
Other	0.000M	0.000M	0.000M	0.000M
SUB-TOTAL	0.285M	0.274M	0.213M	0.295M
Admin. Overhead	0.062M	0.064M	0.044M	0.059M
TOTAL	0.347M	0.338M	0.257M	0.354M

The following is a summary of the Delta Conveyance Finance Authority costs for member’s share of administrative expenses:

Quarterly Summary (July 2022 – June 2023)

	FY22-23 Q1	FY22-23 Q2	FY22-23 Q3	FY22-23 Q4
	Jul-Sep 2022	Oct-Dec 2022*	Jan-Mar 2023	Apr-Jun 2023
TOTAL	0.002M	0.002M	0.001M	0.002M

* Includes slight adjustment due to transition from accrual to cash basis reporting



One Water and Stewardship Committee

Bay-Delta Manager's Report

Item 8b

August 14, 2023

Senate Bill 149 Certification

- Sites Reservoir in consultation to apply for certification as a SB 149 eligible infrastructure project
- Certification would expedite anticipated California Environmental Quality Act litigation

Water Rights Application

- Sites Reservoir water rights application proceeding through the permitting process
- Protest period ends August 31, 2023

Sites Reservoir Planning Updates



Northern California

- Rice farming operations and Multi-Benefit Projects
- Science Partnerships and Initiatives
- Sites Reservoir and Yuba Accord

Northern California and In-Delta Tour



In-Delta Interests

- Pear farming operations near Hood, California
- Collaboration opportunities with Delta Counties

Northern California and In-Delta Tour







One Water & Stewardship Committee

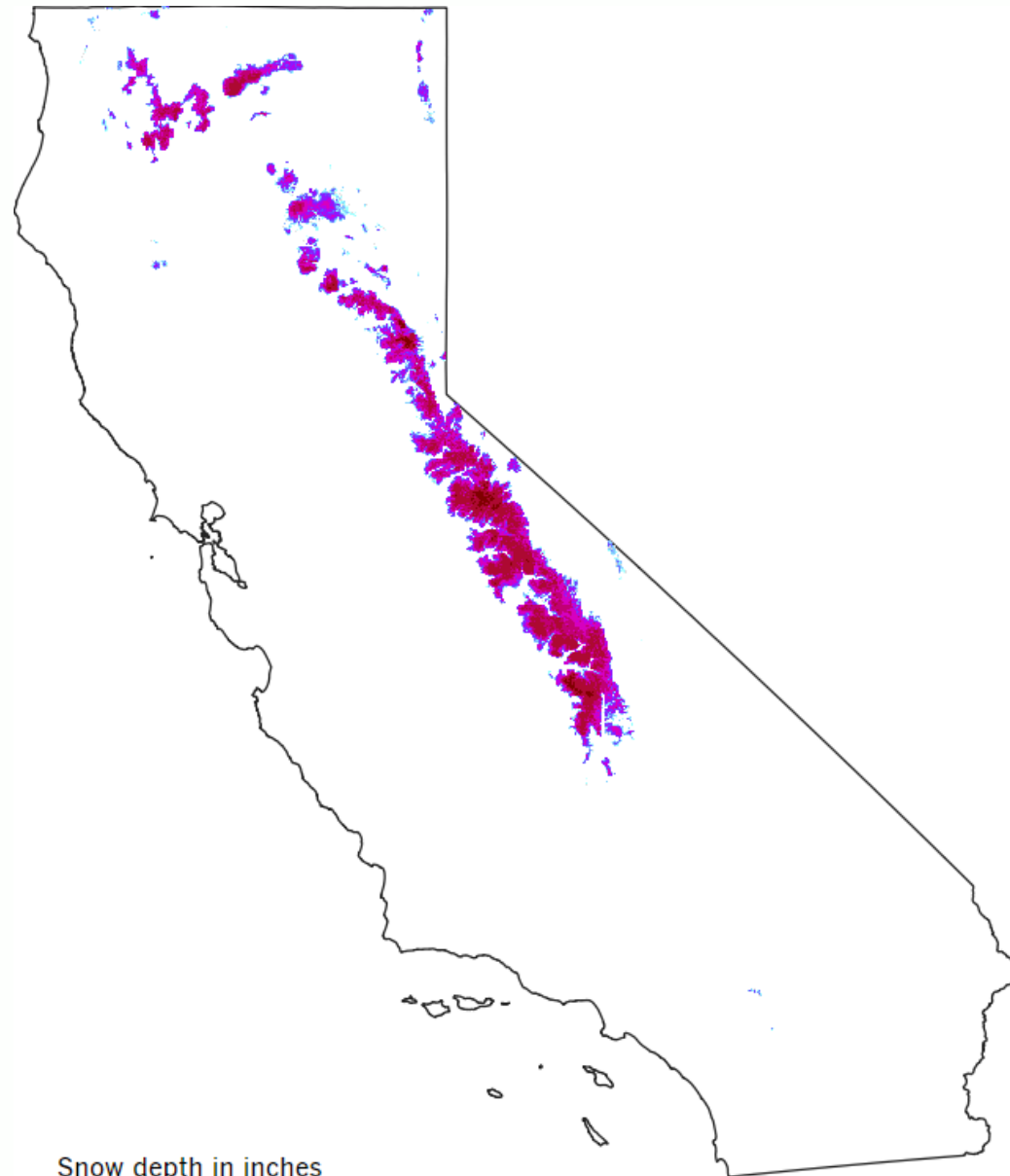
Water Resource Manager Update

Item 8c

August 14, 2023

Summer Snowpack

June 1 – July 24,
2023

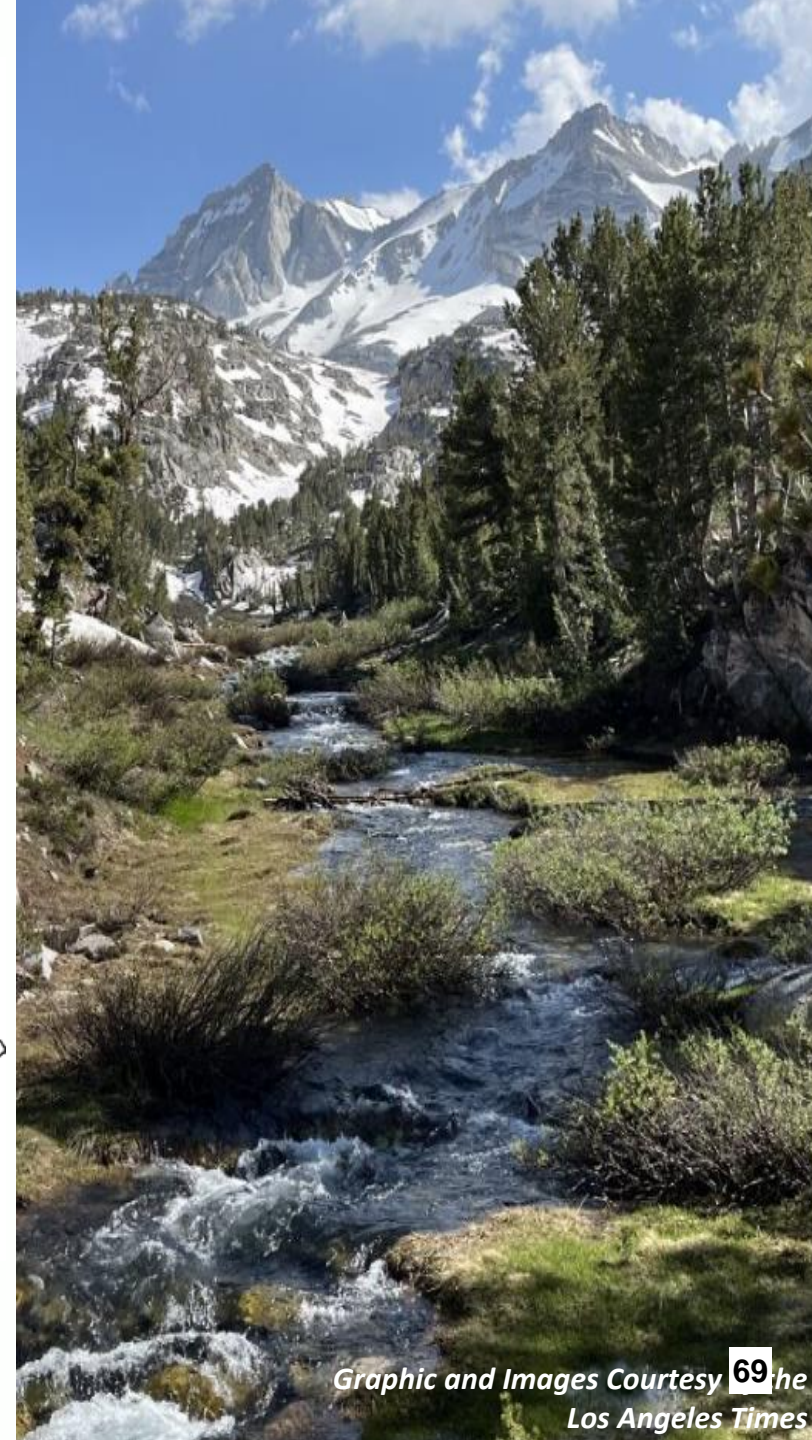


Snow depth in inches



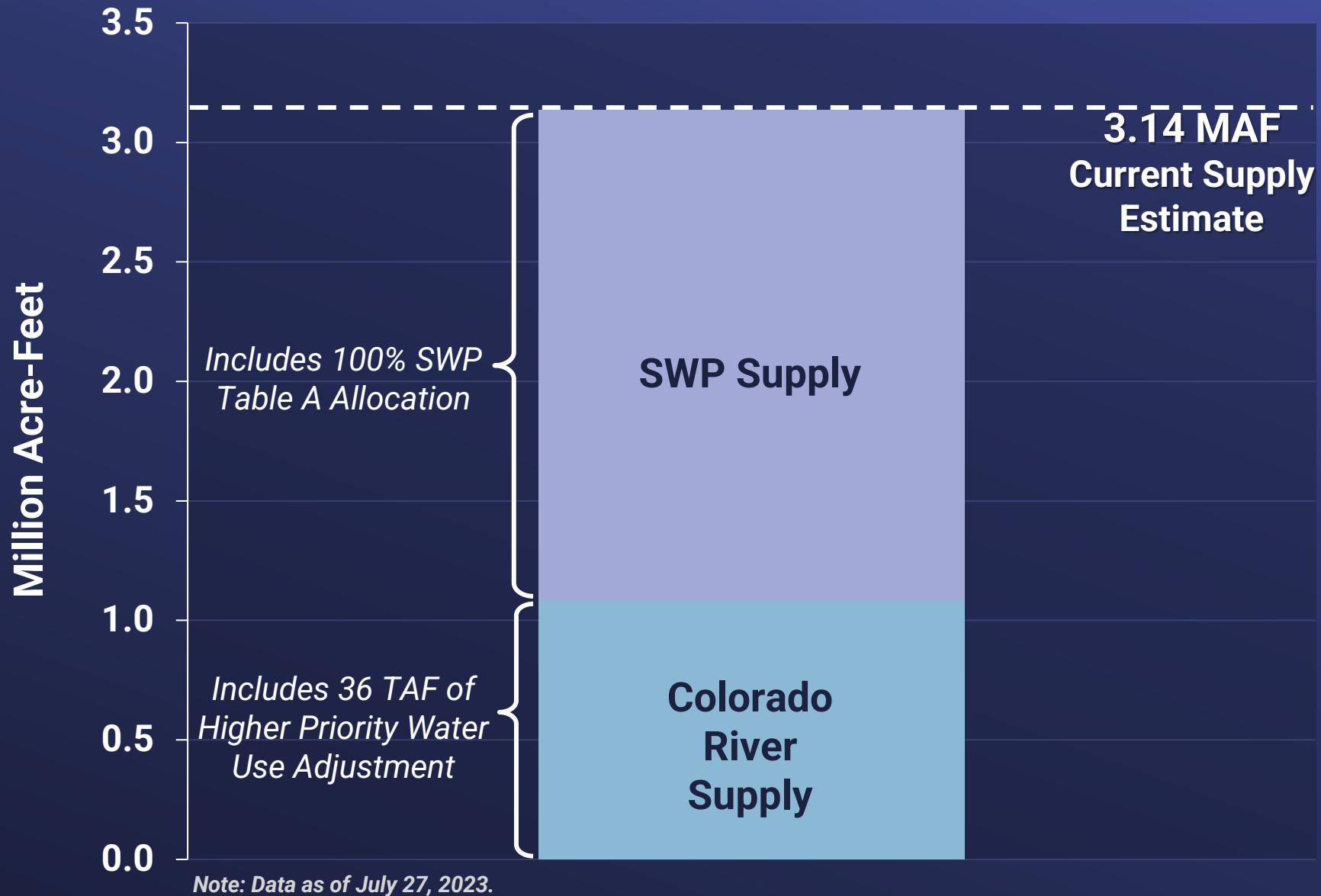
2 4 8 12 16 20 30 40 50 75 100 150+

Member Agency Managers Meeting

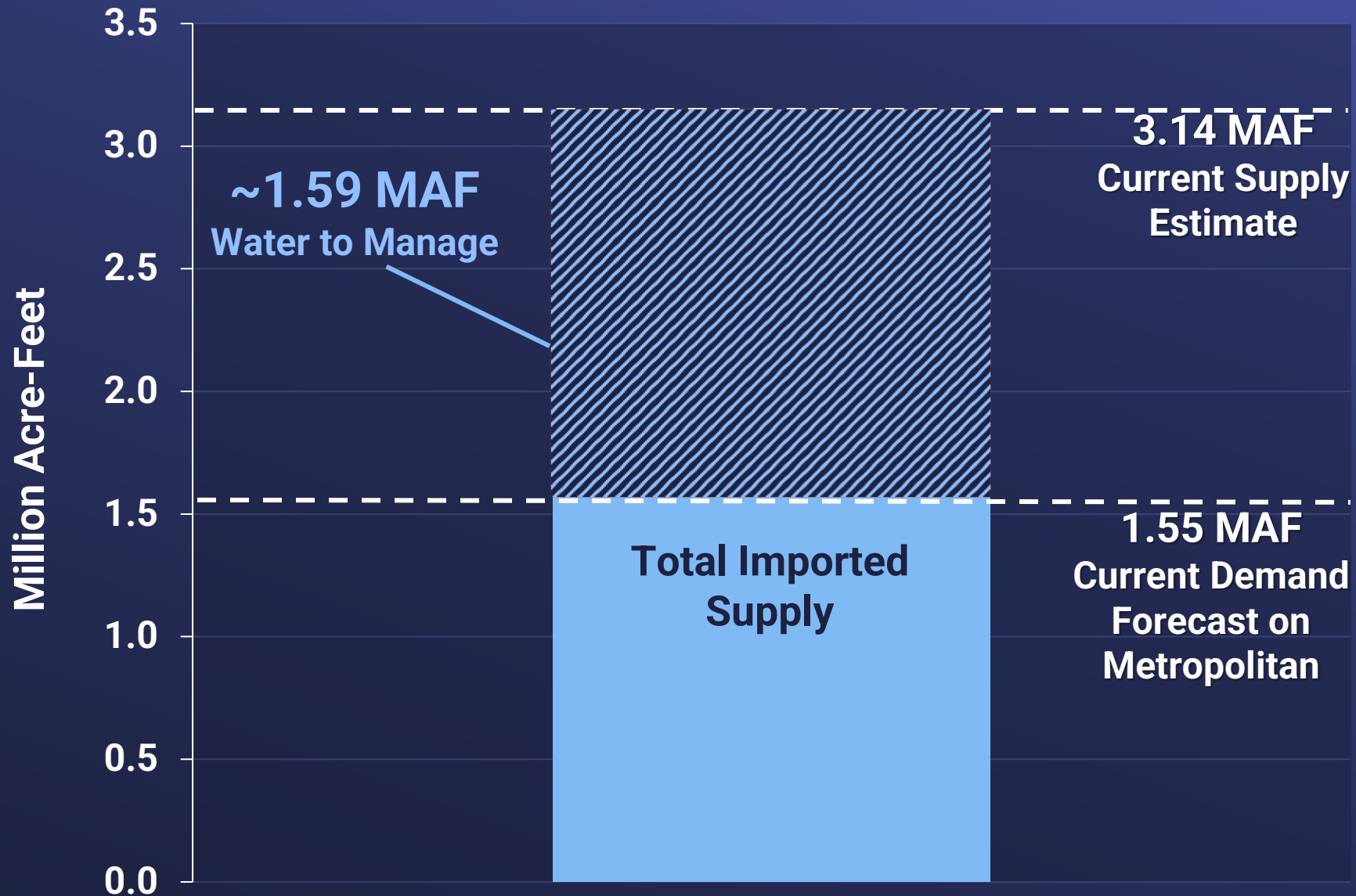


Graphic and Images Courtesy  the
Los Angeles Times

2023 Water Supply/Demand Balance: *Regional View*



2023 Water Supply/Demand Balance: *Regional View*



Note: Data as of July 27, 2023.

Metropolitan's Storage Actions

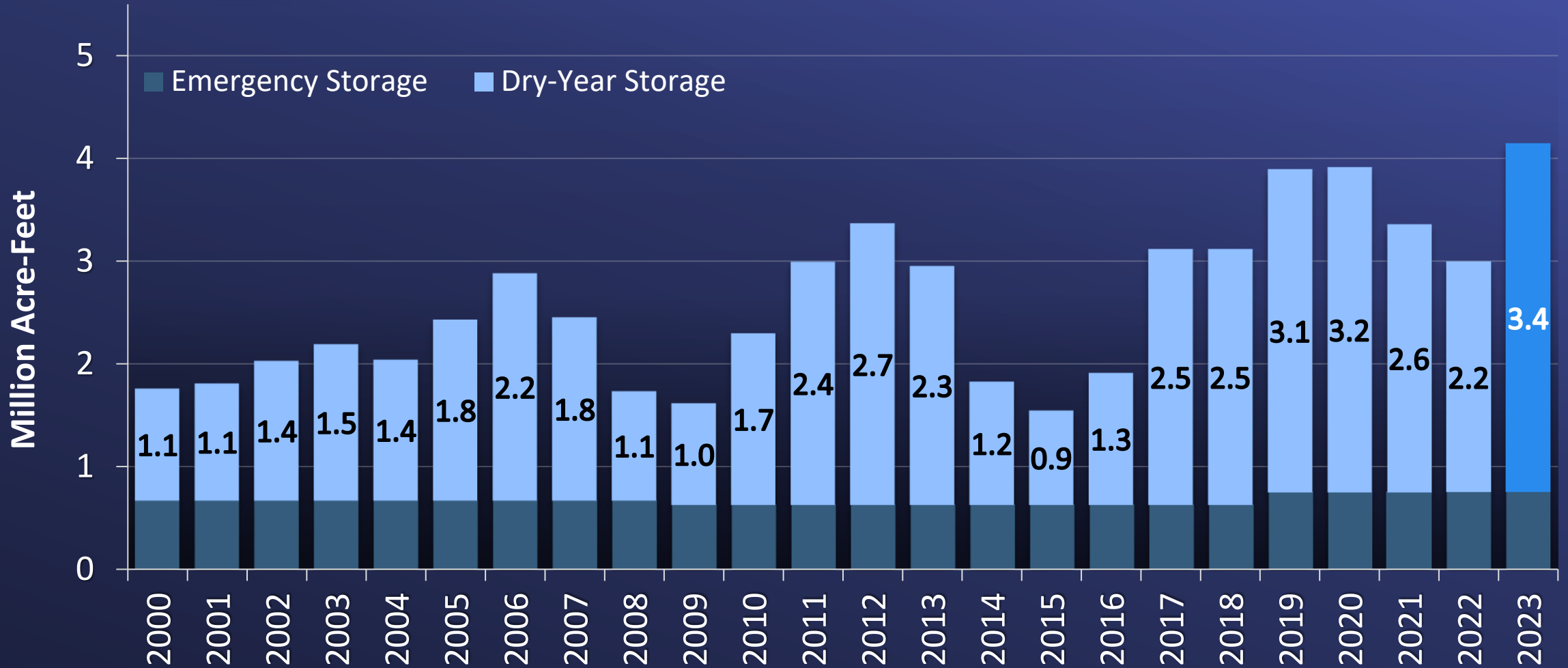


Notes:

- 1) Dashed lines indicate 2023 starting storage balances.
- 2) Ending storage balances are projections (as of July 27, 2023) and will vary based on actual conditions.
- 3) In-region storage includes emergency storage.
- 4) Storage buckets are not drawn to scale.

August 14, 2023

Record-High Storage Projection for Metropolitan End-of-Year Balances



Note:

2023 end-of-year balance is preliminary as they are subject to DWR adjustments and USBR final accounting.

Bucket 2 Funding

Lower Colorado River Basin Conservation & Efficiency Proposals

- Seeks savings of Colorado River water to support Lake Mead
 - Reduce consumptive use
 - Add new water supply
- Offered to Colorado delivery contractors, but can include partnerships
- Funds project implementation, not Ops., Maintenance, & Replacement
- Monitored to ensure benefits realized

Due date extended to:

Aug. 18, 2023

Summary of Approach

Seeking funding for a portfolio proposal

- Main elements of the proposal include
 - Member agency partnerships
 - Landscape transformation
 - Storage
- Proposal includes programs for disadvantaged communities and income-qualified residents





One Water and Stewardship Committee

Chief Sustainability, Resilience and Innovation Officer's Report

Item 8d

August 14, 2023

Sustainability Resilience & Innovation Office



S U S T A I N A B I L I T Y
R E S I L I E N C E
I N N O V A T I O N

The mission of the Sustainability, Resilience, and Innovation Office is to empower Metropolitan to deliver its core mission by inspiring and implementing solutions that benefit people, nature, and the climate.

Sustainability Resilience & Innovation Office



Initiatives & Key Actions

- Climate Action Plan Initiatives and Updates
- Climate Adaptation Master Plan for Water
- Environmental and Sustainability Planning
- Grants and Research
- Innovation Pilots and Programs
- Employee Trainings and Events

Climate Action Plan

Climate Mitigation



SUSTAINABILITY
RESILIENCE
INNOVATION

CAP Initiatives and Updates: Scope 1, 2, and 3 Emissions

- Continue implementation of GHG reduction measures
- Quantify Scope 3 emissions through surveys, logs, reporting
 - Employee Commute Survey
 - Natural Gas Inventory
 - Construction Contractor Logs
 - Utilities Analysis (Wastewater, Water, Trash)
- Continue to secure grant funds and design activities at the Delta Islands
- Continue construction activities for Three Battery Energy Storage System (BESS) projects for completion in late 2023 (Weymouth WTP) and early 2025 (Skinner and Jensen WTP)

CAP Initiatives and Updates: **ZEV Transition** Timeline

Climate Action Plan

ZEV Transition



SUSTAINABILITY
RESILIENCE
INNOVATION

*ACF mandates 50% of purchases of medium and heavy-duty vehicles with a gross vehicle weight rating of greater than 8,500 lbs. be zero emissions beginning 1/1/24.

Climate Action Plan

ZEV Transition



SUSTAINABILITY
RESILIENCE
INNOVATION

Zero Emission Vehicles

Metropolitan Procures its First ZEVs: 2 Ford Lightning Trucks



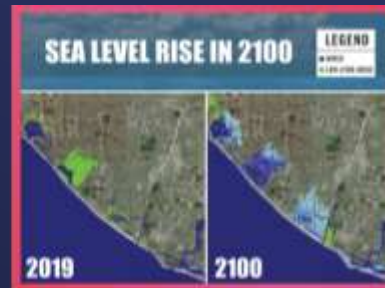
CAMP4W Environmental Listening Session

Climate Adaptation Master Plan for Water (CAMP4W)



SUSTAINABILITY
RESILIENCE
INNOVATION

- Community Engagement with over 60 environmental partners and leaders, including indigenous tribal nation
 - Introduce Metropolitan’s Climate Adaptation Master Plan for Water (CAMP4W) Process
 - Obtain input on water-related climate vulnerabilities for the CAMP4W process to address
 - Identify common ground between community feedback, Metropolitan Board and Member Agency discussions



Environmental Planning Section (SRI - EPS)



SUSTAINABILITY
RESILIENCE
INNOVATION

Environmental Planning Section

- CEQA Compliance
 - Pure Water Southern California PEIR
 - Weymouth Plant and La Verne Site Improvements PEIR
 - West Valley Feeder Improvements MND
 - Inland Feeder-Foothill Pump Station Intertie project
- Regulatory Permitting
 - Copper Basin Discharge Valve Replacement and Access Road Improvements
 - Foothill Feeder and Casa Loma Siphon No. 1/San Jacinto Pipeline urgent repairs
- Construction Monitoring
 - Colorado River Aqueduct Structural Protection Program
 - PCCP

Grants and Research



SUSTAINABILITY
RESILIENCE
INNOVATION

Centralized Grants Management Office

Specifically, the CGMO will:

- Identify and track funding opportunities
- Maintain updated documentation, forms and policies
- Assist in drafting applications, compiling documentation, and submit funding proposals on behalf of Metropolitan
- Develop a dashboard of grant agreements and current applications underway
- Solicit annual funding priorities from Metropolitan staff and Member Agencies to inform grant tracking and advocacy efforts
- Report regularly to the Executive team on upcoming opportunities and application status.

Grants and Research



Centralized Grants Management Office

- FY 22-23 Metropolitan staff successfully received awards in the amount of \$143.4M
- FY 23-24 \$64.2M are pending agreements
- Additional grant funding opportunities CGMO is working on include:
 - State Climate Resilience Implementation- \$3M for workforce development
 - NOAA Regional Climate Resilience Challenge - Climate Adaptation planning and infrastructure up to \$75M
 - Funding for ZEV charging stations and vehicles

Innovation Front

Pilots and Programs



SUSTAINABILITY
RESILIENCE
INNOVATION

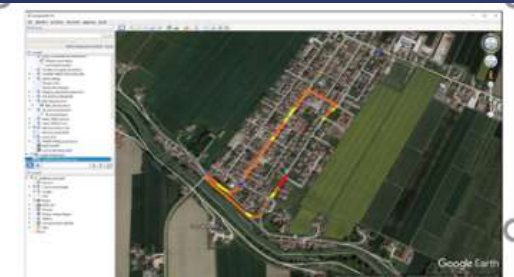
Innovation and Technology Programs

Metropolitan hosted the 34th Western Water Technology Approval Group (TAG) (TAG) and provided a tour to the Pure Water Center. Over 60 attendees from water agencies participated in the Peer-to-Peer discussions and review of technologies.



A practical example of how data collection works

Here you can see a practical example of how the tool works



The research method is based on an appropriate detector that counts cosmic rays in a certain energy band. The tool records all the data received, crossed with GPS position and the collected data are constantly sent to the server for the real time elaboration.

Bay Delta Pilot

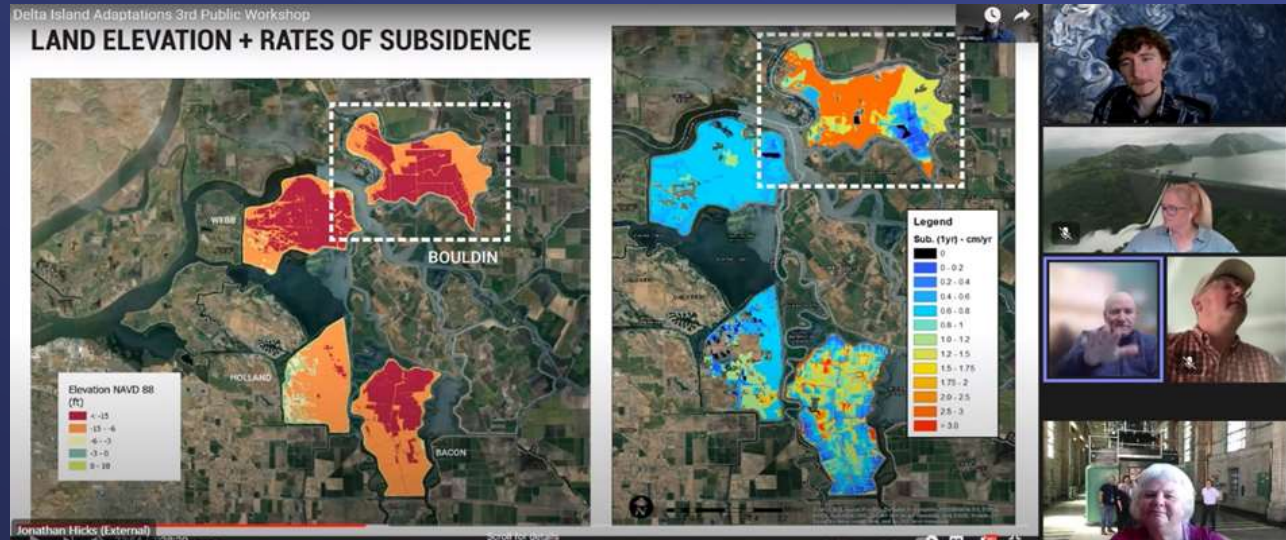
Pilot co-funded with Bay Delta Group and WaterStart with Rezatec.

Innovation Front

Pilots and Programs



SUSTAINABILITY
RESILIENCE
INNOVATION



Rezatec is using Water SAT technology with geospatial AI to remotely monitor the levees on Bouldin Island. The team now has access to both historical and live data on a platform created for the pilot. Satellite data sourcing for the ground motion trend analysis has been completed, and processing of the timeseries data is underway. Satellite data for the vegetation aspects and compliance data remain ongoing.

SRI Workforce Resilience



SUSTAINABILITY
RESILIENCE
INNOVATION

July Employee Trainings and Events

- **Envision Training:** In-person training for Metropolitan staff across the District to become Envision Sustainability Professional (ENV, SP), a globally recognized designation. Envision provides the framework and guidance in the planning, design, and delivery of sustainable and resilient infrastructure.
- **Lunch and Learn:** NASA Program Director of Western Water Applications Office to present on the use of satellite on water resource management and climate change related topics.



Envision Training; Lunch and Learn



SRI Workforce Resilience



July Employee Trainings and Events

- **Sustainability Expo Roadshow:** Outreach to six field sites (three Desert Pumping Plants, two Treatment Plants, and Lake Mathews), to present SRI Initiatives and gather internal stakeholder feedback on CAMP4W.



Lake Mathews



Gene Pumping Plant



Jensen Treatment Plant
One Water and Stewardship Committee



Iron Mountain Pumping Plant

