

MEETING OF THE BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Jointly with the

PLANNING & OPERATIONS COMMITTEE

January 3, 2023, 8:30 a.m.

Due to the current state of emergency related to the spread of COVID-19 and pursuant to Government Code Section 54953(e), MWDOC will be holding this Board and Committee meeting by Zoom Webinar and will be available by either computer or telephone audio as follows:

Computer Audio: You can join the Zoom meeting by clicking on the following link:

<https://zoom.us/j/8828665300>

Telephone Audio: (669) 900 9128 fees may apply
(877) 853 5247 Toll-free

Webinar ID: 882 866 5300#

P&O Committee:

Director McVicker, Chair
Director Nederhood
Director Crane

Staff: R. Hunter, J. Berg, V. Osborn,
H. De La Torre, T. Dubuque,
D. Micalizzi, H. Baez, T. Baca

Ex Officio Member: Director Yoo Schneider

MWDOC Committee meetings are noticed and held as joint meetings of the Committee and the entire Board of Directors and all members of the Board of Directors may attend and participate in the discussion. Each Committee has designated Committee members, and other members of the Board are designated alternate committee members. If less than a quorum of the full Board is in attendance, the Board meeting will be adjourned for lack of a quorum and the meeting will proceed as a meeting of the Committee with those Committee members and alternate members in attendance acting as the Committee.

ROLL CALL

PUBLIC COMMENTS - Public comments on agenda items and items under the jurisdiction of the Committee should be made at this time.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED - Determine there is a need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda. (Requires a unanimous vote of the Committee)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING -- Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at <http://www.mwdoc.com>.

PRESENTATION ITEM

1. MWDOC MEMBER AGENCY FACILITATED DISCUSSION PHASE II PRESENTATION

ACTION ITEMS

2. PROPOSED WUE RESEARCH ACTIVITIES

DISCUSSION ITEMS

3. UPDATE ON COVID-19 (ORAL REPORT)

INFORMATION ITEMS (The following items are for informational purposes only – background information is included in the packet. Discussion is not necessary unless requested by a Director.)

4. 2023 WATER POLICY FORUM & DINNER SCHEDULE

5. MWDOC CHOICE SCHOOL PROGRAMS UPDATE

6. STATUS REPORTS

- a. Ongoing MWDOC Reliability and Engineering/Planning Projects
- b. WEROC
- c. Water Use Efficiency Projects
- d. Public and Government Affairs

7. REVIEW OF ISSUES RELATED TO PLANNING OR ENGINEERING PROJECTS, WEROC, WATER USE EFFICIENCY, FACILITY AND EQUIPMENT MAINTENANCE, WATER STORAGE, WATER QUALITY, CONJUNCTIVE USE PROGRAMS, EDUCATION, PUBLIC AFFAIRS PROGRAMS AND EVENTS, PUBLIC INFORMATION PROJECTS, PUBLIC INFORMATION CONSULTANTS, DISTRICT FACILITIES, and MEMBER-AGENCY RELATIONS

ADJOURNMENT

NOTE: At the discretion of the Committee, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated, and may be subject to action by the Committee. On those items designated for Board action, the Committee reviews the items and makes a recommendation for final action to the full Board of Directors; final action will be taken by the Board of Directors. Agendas for Committee and Board meetings may be obtained from the District Secretary. Members of the public are advised that the Board consideration process includes consideration of each agenda item by one or more Committees indicated on the Board Action Sheet. Attendance at Committee meetings and the Board meeting considering an item consequently is advised.

Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by telephoning Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.



PRESENTATION ITEM

January 3, 2023

TO: Planning & Operations Committee
(Directors McVicker, Nederhood and Crane)

FROM: Robert Hunter, General Manager

Staff Contact: Harvey De La Torre, Assistant General Manager

**SUBJECT: MWDOC Member Agency Facilitated Discussion Phase II
Presentation**

STAFF RECOMMENDATION

Staff recommends the Planning & Operations Committee receive and file this report.

COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

SUMMARY

Mr. Paul Brown, of Paul Redvers Brown Inc. facilitated a number of workgroup meetings, as part of Phase II, to encourage a productive dialogue among all the member agencies to build a consensus view of their future needs and expectations of MWDOC. This phased process, started from individual interviews and discussions with the member agencies from Phase I.

As part of the Member Agency Facilitated Discussion Phase II, MWDOC held four member agency facilitated discussion workgroup meetings (June 30, July 25, September 6, and October 4) facilitated by Mr. Brown.

At this Planning and Operations Committee Meeting, Mr. Brown will present information collected and summarized from the key workgroup discussions, from which the MWDOC Board will (1) Review the Phase II Report and (2) Discuss any future direction and implementation to improve member agency collaboration and relations.

Budgeted (Y/N): N/A	Budgeted amount: None	Core <u> X </u>	Choice <u> </u>
Action item amount: N/A	Line item:		
Fiscal Impact (explain if unbudgeted):			

Attachment: ***Facilitated Discussions with MWDOC Member Agencies Phase II***
Presentation, January 3, 2022

Facilitated Discussions with MWDOC Member Agencies

PHASE 2 REPORT TO BOARD OF DIRECTORS

PAUL R. BROWN, AICP

December 2022

(Version 2.0)



PAUL REDVERS BROWN INC.

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Report on Facilitated Discussions with MWDOC Member Agencies

Introduction

The following report summarizes discussions and feedback obtained during Phase 2 of MWDOC's "Facilitated Discussions with MWDOC Member Agencies" project. The report supplements the Phase 1 Survey findings presented in a February 2022 report entitled, "Analysis of Qualitative Responses to Open-Ended Interview Questions." Phase 1 of the project commenced in October 2021, with a survey of management and governance representatives from each of MWDOC's twenty-seven member agencies. The first phase survey was comprised of open-ended questions on topics related to governance, policies, process, roles and responsibilities, and interagency relationships.

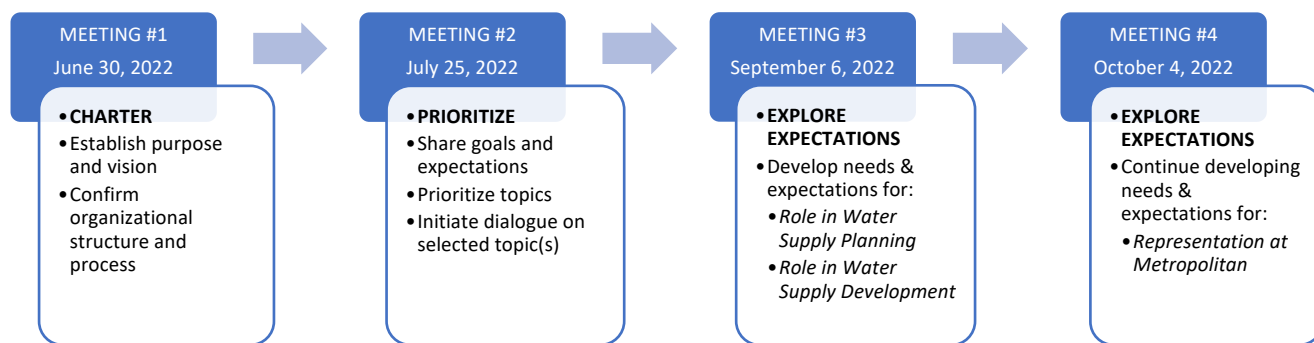
The following report summarizes additional input received during four facilitated workgroup meetings conducted with the member agency managers and MWDOC management. The workgroup meetings provided an opportunity to further discuss issues raised in the survey, for the purpose of improving understanding, communications, and on-going collaboration among all participants.

Phase 2 Objectives

As described in the Board Action dated June 16, 2021, the objectives of the second phase of the project included:

Facilitated discussion workshops of the Phase 1 findings. . . The intention is not only to discuss but to see if a consensus view is achievable. Depending upon the outcome, the process could end there with a summary report . . .

The timeline below presents the dates and topics covered in the four workgroup meetings. Invited participants included all MWDOC member agency managers, MWDOC's general manager and executive team, and two representatives from MWDOC's board of directors appointed by the board president to listen and contribute to the discussion at their discretion. The board representatives attended workgroup meetings 2, 3, and 4.



How to Interpret This Report

As conceived at the beginning of this project, the objective has been to facilitate a dialogue among member agency managers and MWDOC's staff and board, focused on active listening, increased understanding, and improved communications. Consequently, no debates, votes, polling, or decisions were involved. Areas of possible agreement, where participants discussed how their points of view might be reconciled, emerged from a deeper appreciation for the needs, expectations, and concerns of other participants. Overall, there appeared to be a consensus that improved processes, communications, and listening could result in better decision-making. No formal decisions or recommendations were made during the workgroup meeting discussions.

Dialogue Versus Debate

Guidelines for the discussion focused on facilitation of a dialogue among participants — rather than a debate of the issues or structured evaluation of specific options.

Debate	Dialogue
Assuming that there is a right answer, and you have it	Assuming that many people have pieces of the answer and that together they can craft a solution
Combative: participants attempt to prove the other side wrong	Collaborative: participants work together toward common understanding
About winning	About exploring common ground
Listening to find flaws and make counterarguments	Listening to understand, find meaning and agreement
Defending assumptions as truth	Revealing assumptions for reevaluation
Critiquing the other side's position	Reexamining all positions
Defending one's own views against those of others	Admitting that others' thinking can help improve on one's own

Source: Daniel Yankelovich, *The Magic of Dialogue: Transforming Conflict into Cooperation*, 1999

The table above defines the basic differences between the two approaches. The decision to prioritize issues and address them through a structured dialogue influenced the expected outcomes of the meetings. Results were defined by one participant as “a change in perceptions based on what we all learn together.” The hoped-for goal was a better understanding of where everyone was coming from and what assumptions informed participants’ positions.

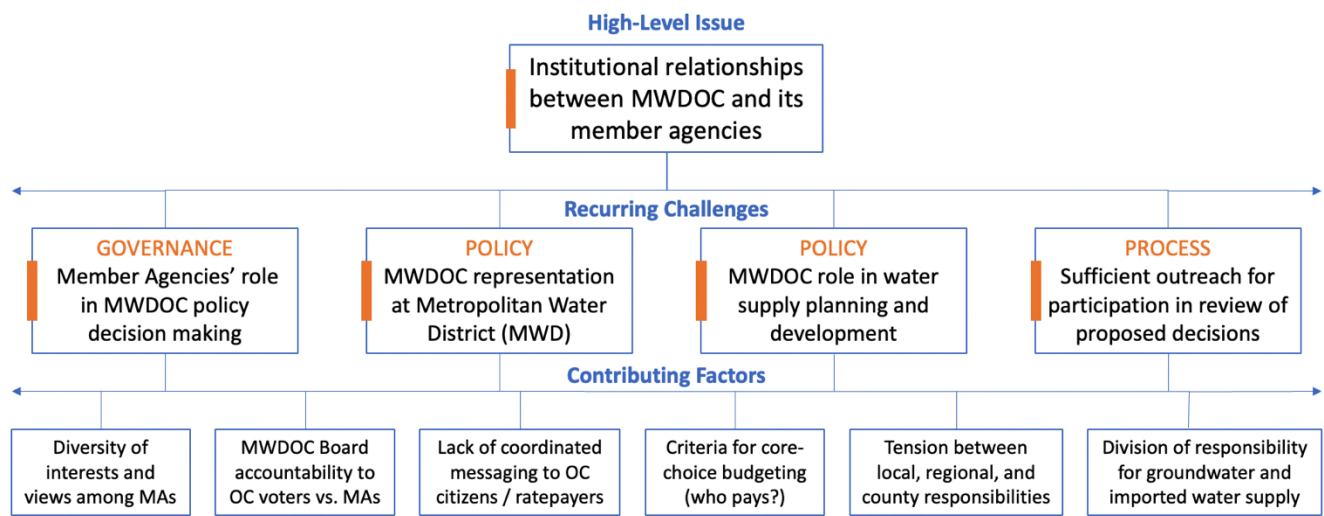
As was described in the Phase 1 Survey Report, the degree of diversity among member agencies will always result in competing interests and diverse points of view. Throughout the four workshops, however, there appeared to be agreement that greater consideration and collaboration among the leadership of MWDOC and its member agencies could strengthen understanding among all parties.

Workgroup Meeting #1 (June 30, 2022)

In the first meeting, participants broadly described the purpose of the discussions as improving MWDOC’s relationships with member agencies who expressed concerns during the survey process. It was subsequently agreed upon that a more productive goal would be to focus on better alignment of expectations among MWDOC and its member agencies. Participants acknowledged that all of the agencies involved are governed according to their own authorities and policies. As one participant stated, “I think it is counterproductive to tell MWDOC what they can and can’t do.”

Hierarchy of Issues Identified in the Survey

In advance of the first workgroup meeting, survey results were used to identify the areas of concern raised by member agencies, and those concerns were presented as a “preliminary hierarchy of issues.”



In order to better visualize the relationships between recurring areas of conflict and other contributing factors raised during the survey, a matrix evaluation was provided for both discussion purposes and guidance regarding prioritization.

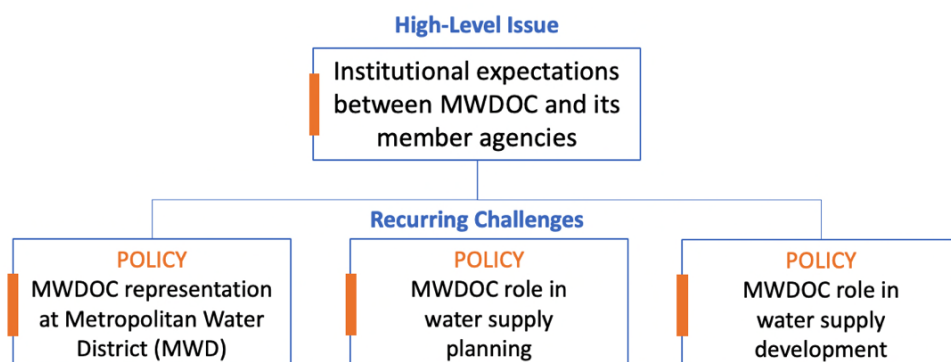
	Recurring Challenges	Contributing Factors					
		Diversity of interests and views among MAs	MWDOC Board accountability to OC voters v MAs	Lack of coordinated messaging to OC citizens / ratepayers	Criteria for core-choice budgeting (who pays?)	Tension between local, regional, and county responsibilities	Division of responsibility for groundwater and imported water
3	Member Agencies’ role in MWDOC policy decision making	X	X		X	X	
2	MWDOC representation at Metropolitan Water District (MWD)	X	X	X		X	X
1	MWDOC role in water supply planning and development	X	X	X	X	X	X
4	Sufficient outreach for participation in review of proposed decisions	X					

The matrix above provides a subjective assessment of how specific issues raised in the Phase 1 Survey contribute to higher-level areas of conflict (recurring challenges) identified in Phase 1. From this assessment, it was agreed that in the time available the most productive topics of discussion were:

1. MWDOC's role in water supply planning and development, and
2. MWDOC's representation of member agencies at the Metropolitan Water District

Workgroup Meeting #2 (July 25, 2022)

At the second meeting, it was suggested and agreed that MWDOC's roles in water supply planning and water supply development be split into two separate topics. It was also agreed that the term "institutional relationships" was too broad and ambiguous. After discussion, participants suggested that it would be more useful to explore the "expectations" the parties hold regarding one another's roles and responsibilities. With those modifications, the simplified hierarchy below was used as the framework for subsequent dialogue.



Workgroup Meetings #3 and #4 (September 6 and October 4, 2022)

Having decided to focus on expectations among participants, Workgroup Meetings #3 and #4 consisted of online whiteboard discussions regarding the three priority topic areas. An additional column to capture participants' perceived needs was added to the white board. Needs were defined as a participant's basic requirements for the fulfillment of its mission. The tables below present the whiteboard template used for discussions and selected examples of needs and expectations identified during the workgroup meetings. A complete list of the whiteboard input, as recorded during the meetings, is attached as Appendix A.

Water Supply Planning		
Participants Role	Needs	Expectations
MWDOC Board and Management	Need analysis of future reliable supply under varied conditions.	Expect member agencies to provide feedback on a timely basis.
Member Agency Managers	Need to be treated as individual customers of MWDOC.	Expect MWDOC to facilitate dialogue on local projects without comparative rankings.

Water Supply Development		
Participants Role	Needs	Expectations
MWDOC Board and Management	Need to provide assistance for local projects when necessary.	Expect MWDOC to assist development of needed projects.
Member Agency Managers	Need MWDOC's efforts to be consistent with Prop 26.	Expect MWDOC will not own and operate water supply infrastructure.

MWDOC Representation at Metropolitan		
Participants Role	Needs	Expectations
MWDOC Board and Management	Need Metropolitan to be financially healthy and stable.	Expect MET Directors to be as transparent as possible.
Member Agency Managers	Need to understand and have input to MET Director policy and positions.	Expect MET Directors will prioritize Orange County interests.

It was agreed that the discussion would be grounded in MWDOC's current Mission Statement presented below.

MWDOC Mission Statement

To provide reliable, high-quality supplies from the Metropolitan Water District of Southern California (Metropolitan) and other sources to meet present and future needs, at an equitable and economical cost, and to promote water use efficiency for all of Orange County.

It was stipulated up-front that the purpose of the facilitated dialogue was not intended to rewrite or revise MWDOC's mission statement. Rather, the discussion focused on how participants expected MWDOC to implement its mission, as well as what MWDOC's leadership believed necessary to meet their implementation responsibilities.

Areas of Consensus

The following section presents areas of broad agreement among participating member agency managers during the workshop discussions. There was no polling of participants used during the workgroup meetings. For the purposes of this report, "consensus" is applied loosely to those areas where participants expressed concerns regarding specific issues and outcomes, but nevertheless appeared to agree that, with sufficient consultation, deliberation, and caveats, future acceptable (if not unanimous) decisions could likely be reached. Said another way, for the topics discussed below there were no impasses or deadlocks that blocked further discussion and potential resolution of differences.

Water Supply Planning

Water Supply Planning is acknowledged as one of MWDOC's strong capabilities. Workgroup discussions addressed the purpose, participants, and scope of MWDOC's planning efforts, with general agreement that greater collaboration and integration of plans would be beneficial.

1. MWDOC and Member Agencies should share responsibility for water supply reliability planning.
2. MWDOC's planning role should focus primarily on imported supply reliability under varied conditions (emergency, drought, baseload, and surplus).
3. MWDOC should integrate member agency perspectives in its planning efforts.
4. MWDOC should facilitate dialogue and collaboration on infrastructure and resources planning and development.

Water Supply Development

As described in the Phase 1 report, "MWDOC's role as a water supply developer was the most divisive topic discussed [in the surveys]." During the workgroup meetings, there was general

agreement that MWDOC had a role to play in project development within its service area, with differing views on the scope of MWDOC's involvement. Member Agency expectations expressed during the meetings included the following:

1. MWDOC has a role in facilitating and collaborating on supply development within its service area. The appropriate scope of MWDOC's role varies considerably among participants, with concerns expressed regarding distractions from its primary responsibilities as a Metropolitan Water District member agency.
2. MWDOC should only participate in supply development projects if the direct beneficiaries pay. MWDOC's Member Agencies who develop and finance their own projects are reluctant to provide financial support to other agencies' projects.
3. New water supply opportunities outside MWDOC's service area should be driven primarily by Member Agencies.
4. There is a widely expressed need for an improved decision-making process, greater collaboration, and more transparency on water supply development activities.

Representation at Metropolitan

The discussion of decision-making and representation provided by the Directors on Metropolitan's Board remained an area of disagreement among several participants. Member Agency Managers expectations regarding representation on Metropolitan's board did converge in several areas:

1. Metropolitan directors are expected to be as transparent as possible regarding the policy positions, intentions, actions, and reasons informing their votes. This expectation is driven by the need to present and explain decisions at Metropolitan to their own governing bodies.
2. Member agencies expect increased OCWD involvement in policy positions at Metropolitan, especially those impacting groundwater.
3. Finally, there is an expectation that member agencies play a role in the development of MWDOC policy positions, helping balance OC interests and broader regional needs.

Closing Remarks

While this report attempts to capture highlights of six hours of facilitated discussions, the success of the dialogue among MWDOC member agency managers, staff, and board members was reflected in the respectful tone and cooperativeness of the participants. There were no discussions that broke down into arguments or accusations. Participants genuinely shared their perspectives openly and with deference to the views of others. Some final observations and recommendations:

1. The Phase 2 facilitated workgroup meetings were a successful application of the “dialogue” process and “active listening.” That success represents a “proof of concept” that MWDOC leadership and its member agency managers can work constructively on addressing mutual interests and concerns.
2. There was a greater emphasis on the forward-looking process of decision-making and collaboration skills than specific policy decisions.
3. MWDOC’s respected water supply planning role would likely benefit from greater collaboration and integration with its member agencies.
4. MWDOC’s role in water supply development largely hinges on questions regarding “who pays?” and under what circumstances should MWDOC be involved.
5. Regarding MWDOC’s representation at Metropolitan, there is a remaining gap between the expectations of some member agencies and the policy-making process currently employed by Metropolitan directors. The complexity of this issue justifies continued dialogue.
6. The workgroup meetings highlighted the diversity of MWDOC’s member agencies in terms of the time and resources available for participating in processes like the facilitated discussions. Most of the participants belonged to water districts within the MWDOC service area. Continuing efforts to encourage greater involvement by cities in the dialogue can only strengthen future processes and outcomes.

In closing, it is hoped that progress made during the facilitated dialogue continues. Having successfully prioritized those areas requiring on-going attention, the implementation of goals, objectives, and actions towards more effective collaboration is clearly justified.

Appendix A: Whiteboard Input from Workgroup Meetings #3 and #4

Water Supply Planning

Mission Statement: To provide reliable, high-quality supplies from the Metropolitan Water District of Southern California (Metropolitan) and other sources to meet present and **future needs**, at an **equitable and economical cost**, and to promote water use efficiency **for all of Orange County**.

	Needs	Expectations
MWDOC Board and Management	<ul style="list-style-type: none"> Need analysis for future reliable supply (under varied conditions: emergency, drought, base load, surplus). 	<ul style="list-style-type: none"> Expect that member agencies provide feedback on issues in a timely manner. Expect more conversation on issues. Collaborate on resource planning efforts Gather local supply information for needs assessment Explore <u>hybrid-choice</u> options where MWDOC develops framework for regional planning tools
Member Agency Managers	<ul style="list-style-type: none"> Need to better understand the relationship between MWDOC and MAs. Need to understand MET supply at a regional level (P&O good example) Need to be treated as customers of MWDOC. 	<ul style="list-style-type: none"> Place for MWDOC to evaluate future supply reliability. Information provided in a timely manner to provide feedback. Expect that MWDOC understands MA priorities and takes those into consideration when making decisions. MWDOC keeping MA's informed of reliability of primarily imported supply MWDOC Board and staff think about issues from the customer/member agency perspective Facilitate dialogue on facilities planning & resources planning (without local supply priority)

Water Supply Development

Mission Statement: To **provide reliable, high-quality supplies from** the Metropolitan Water District of Southern California (Metropolitan) **and other sources** to meet present and future needs, at an **equitable and economical cost**, and to promote water use efficiency **for all of Orange County**.

	Needs	Expectations
MWDOC Board and Management	<ul style="list-style-type: none"> Understanding how supply is impacted under varied conditions – Integrated evaluation with distinction between planning and development 	<ul style="list-style-type: none"> Expect MWDOC to assist in developing needed projects benefiting multiple agencies Discuss/offer MWDOC assistance for local projects in need Explore beneficiaries pay approach to supply development MWDOC to facilitate integrated development discussions
Member Agency Managers	<ul style="list-style-type: none"> MA Discussion prior to MWDOC Board Action Alignment with Prop 26 	<ul style="list-style-type: none"> Do not expect MWDOC to own and operate infrastructure and facilities MA to determine new sources of alternate supply MWDOC to facilitate and collaborate on development discussions Support development where Beneficiaries Pay (ex. Choice Prg) MWDOC should minimize out-of-region supply development effort Focus efforts on <u>process</u> and transparency; improve process

MWDOC Representation at Metropolitan

Mission Statement: To provide reliable, **high-quality supplies from the Metropolitan Water District of Southern California (Metropolitan)** and other sources to meet present and future needs, at an **equitable and economical cost**, and to promote water use efficiency **for all of Orange County**.

	Needs	Expectations
MWDOC Board and Management	<ul style="list-style-type: none"> • Need for a financially healthy and stable MET. 	<ul style="list-style-type: none"> • Expect the MWDOC & OC delegation to vote together on key MET issues. • Expect directors to look at what's best for "MET" while taking into consideration O.C.'s position • Improve effectiveness
Member Agency Managers	<ul style="list-style-type: none"> • Need to understand MET director policy positions with proposed MWDOC positions. • Consider the development of policy positions to be advanced at MET • Need to understand why MWDOC votes a certain way. 	<ul style="list-style-type: none"> • Expect MET Directors to be as transparent as possible about their intentions. • Expect a clear understanding of MET issues, where MWDOC is at, and where MET MA's are at. • Expect detailed questions from MAs on MET issues. • Increase OCWD direct involvement (beyond only representation) on MET issues • Expect directors to consider O.C.'s position with greater priority

Facilitated Discussions with MWDOC Member Agencies

PHASE 2 REPORT TO BOARD OF DIRECTORS

PAUL R. BROWN, AICP



1

Overall Purpose

To provide MWDOC's member agencies an opportunity to share their views with MWDOC and the other member agencies regarding their future needs and expectations, as well as an assessment of past performance.

2

Two Phase Process



3

Phase 2 Objective

Facilitated discussion workshops of the Phase 1 findings. . . The intention is not only to discuss but to see if a consensus view is achievable.

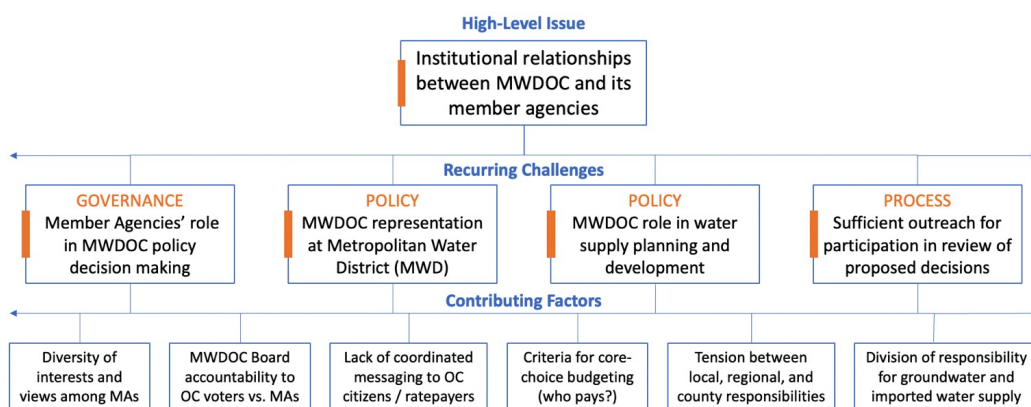
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Finding “Consensus”

- Focused on active listening, increased understanding, and improved communications
- No debates, votes, polling, or decisions made
- Broad consensus that improved processes, communications, and listening could result in better decision-making

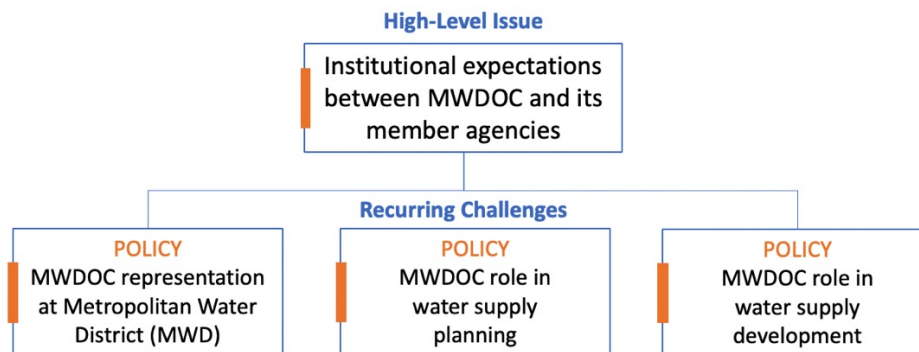
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Summary of Phase 1 Findings



6

Prioritization of Issues



7

Needs and Expectations Examples

Water Supply Planning		
Participants Role	Needs	Expectations
MWDOC Board and Management	Need analysis of future reliable supply under varied conditions.	Expect member agencies to provide feedback on a timely basis.
Member Agency Managers	Need to be treated as individual customers of MWDOC.	Expect MWDOC to facilitate dialogue on local projects without comparative rankings.

8

Needs and Expectations Examples

Water Supply Development		
Participants Role	Needs	Expectations
MWDOC Board and Management	Need to provide assistance for local projects when necessary.	Expect MWDOC to assist development of needed projects.
Member Agency Managers	Need MWDOC's efforts to be consistent with Prop 26.	Expect MWDOC will not own and operate water supply infrastructure.

9

Needs and Expectations Examples

MWDOC Representation at Metropolitan		
Participants Role	Needs	Expectations
MWDOC Board and Management	Need Metropolitan to be financially healthy and stable.	Expect MET Directors to be as transparent as possible.
Member Agency Managers	Need to understand and have input to MET Director policy and positions.	Expect MET Directors will prioritize Orange County interests.

10

Definition of Consensus

- Areas where participants **appeared** to agree that, with sufficient consultation, deliberation, and caveats, future acceptable (even if not unanimous) decisions could be reached.
- Said another way, for the topics discussed there were no impasses or deadlocks that blocked further discussion and potential resolution of differences.

11

Consensus

Water Supply Planning

1. MWDOC and Member Agencies should share responsibility for water supply reliability planning.
2. MWDOC's planning role should focus primarily on imported supply reliability under varied conditions (emergency, drought, baseload, and surplus).
3. MWDOC should integrate member agency perspectives into its planning efforts.
4. MWDOC should facilitate dialogue and collaboration on infrastructure, resources planning, and development.

12

Consensus

Water Supply Development

1. MWDOC has a role in facilitating and collaborating on supply development within its service area.
2. MWDOC should only participate in supply development projects if the direct beneficiaries pay.
3. New water supply opportunities outside MWDOC's service area should be driven primarily by Member Agencies.
4. There is a widely shared need for an improved decision-making process, greater collaboration, and more transparency on water supply development activities.

13

Expectations/Consensus

Representation at Metropolitan

1. Metropolitan directors are expected to be as transparent as possible regarding the policy positions, intentions, actions, and reasons informing their votes.
2. Member agencies expect increased OCWD involvement in policy positions at Metropolitan, especially those impacting groundwater.
3. Finally, there is an expectation that member agencies play a role in the development of MWDOC policy positions, helping balance OC interests and broader regional needs.

14

Closing Observations

- MWDOC and member agencies can work constructively together.
- MWDOC's water supply planning role could benefit from greater integration of member agency planning efforts.
- MWDOC's water supply development role hinges on "who pays?" and "when and to what extent should MWDOC be involved?"
- Issues around MWDOC's representation at Metropolitan justify continued dialogue.
- Efforts to encourage greater involvement by cities will strengthen future processes and outcomes.

15

Next Steps

- Encourage that progress made during the facilitated dialogue continues.
- Having prioritized areas needing attention, the implementation of goals, objectives, and actions towards more effective collaboration is justified.

16



ACTION ITEM
January 18, 2023

TO: Board of Directors

FROM: **Planning & Operations Committee**
(Directors McVicker, Crane, and Nederhood)

Robert Hunter, General Manager
Staff Contact: J. Berg, Director of WUE

SUBJECT: Proposed WUE Research Activities

STAFF RECOMMENDATION

Staff recommends the Board of Directors authorize:

1. A \$10,000 contribution to the California Water Efficiency Partnership toward the development of Water Use Efficiency Program Measurement & Verification Protocol, and,
2. The General Manager to enter into a contract with Motor Vehicle Network in the amount of \$29,580 for a one-year pilot Water Use Efficiency marketing campaign.

COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

SUMMARY

Research focused on developing and implementing water use efficiency programs has been a cornerstone of MWD OC's success. Our research has focused on a variety of areas, including:

- Impact evaluations that quantify water savings through statistical water savings evaluations; examples include smart timers, spray-to-drip conversions, and turf removal;
- Process evaluations that focus on how programs are implemented, participant experience and satisfaction, and how the participation process can be refined;

Budgeted (Y/N): Yes	Budgeted amount: \$75,000	Core X	Choice __
Action item amount: \$39,580	Line item: 35-7040		
Fiscal Impact (explain if unbudgeted): N/A			

- Quantification of water savings market potential by customer class, such as single family residential, or specific water use, such as cooling towers;
- Water Use Efficiency Standards economic analyses; and
- Landscape classifications and measurements using high-resolution aerial imagery.

Staff is proposing two new research activities for this fiscal year. A detailed report of these activities is provided below.

DETAILED REPORT

Project No. 1

Project Title: Water Use Efficiency Program Measurement & Verification Protocol

Lead Agency: California Water Efficiency Partnership and the UC Davis Center for Water-Energy Efficiency

Project Overview: The California Water Efficiency Partnership (CalWEP) and the UC Davis Center for Water-Energy Efficiency are proposing the development of a guidance document that will define a variety of water use efficiency program evaluation methodologies that can be utilized to verify water savings of different programs such that a water utility can determine the Measurement & Verification (M&V) approach will work the best for them given their program goals and resources. The goal is to develop M&V guidance that is streamlined, easy to follow, feasible to implement in practice, and catered to water supply utilities and their water efficiency staff. The ultimate goal is to provide water agencies more clearly defined program evaluation methodologies and to greatly expand program evaluations.

The guidance document will focus on how to design or plan for a study so it can be verified, focusing on the importance of understanding the data needs and study limits upfront given data availability, and including different evaluation approaches that span from experimental and non-experimental methods. The guidance will cover the methods and assumptions that may be implemented in an M&V plan, and how to choose one method over another depending on the desired level of accuracy and how the results will be utilized. The document will also cover the pros and cons of experimental verses non-experimental methods, and how to easily implement a randomized control group in-house, given the correct upfront planning.

Project Objectives

The development of the M&V guidance document includes three primary objectives:

1. Provide guidance surrounding the data requirements to conduct effective M&V analyses. This will include:
 - a. How to determine the minimum number of participants in order to detect an effect of a certain size.
 - b. What data needs to be obtained; for example:

- i. Will water consumption data need to be observed within non-participating homes, and if so, how many?
 - ii. How long before and after the treatments occur will water consumption need to be observed?
 - iii. How do these requirements vary with the frequency of the data observed (e.g., monthly billing data versus AMI data)?
 - iv. Will additional information about households be required (e.g., square footage, number of bedrooms/bathrooms)?
 - v. What weather data will be needed (e.g., temperature, precipitation, evapotranspiration) and at what data resolution?
2. Provide a succinct overview of the main methodologies for conducting retrospective M&V analyses for non-experimental programs that have already been rolled out. This overview will be targeted towards a broad audience seeking to gain a clear understanding of the statistical approaches and empirical strategies.
3. Provide guidance surrounding the design and implementation of water efficiency programs in advance of implementation to ensure that subsequent M&V analyses will result in accurate (i.e., unbiased) and precise estimates of the resulting water savings. This includes identifying what questions are possible to answer given available data and how and when to combine results from multiple studies to obtain a better understanding of how savings differ across programs and with customer characteristics (e.g., demographics, climate, season, building/lot features, etc.). Much of the focus will be on providing guidance surrounding simple, viable approaches to introduce randomization in the timing of treatments.

Proposed Project Cost and Funding Partnership

As lead agency, CalWEP is gathering financial contributions from its membership and other sources through a “Pass the Hat” fundraising campaign. The total project cost is \$115,665. Staff proposes a MWDOC contribution of \$10,000. This 8.6% contribution will allow us to leverage a much bigger investment. Other CalWEP members contributing include LADWP, Cal Water Services, Coachella Valley WD, EBMUD, Sacramento Suburban Water District, and Western Municipal Water District.

Project No. 2

Project Title: WUE Programs Marketing Pilot – Motor Vehicle Network

Lead Agency: Municipal Water District of Orange County

Project Overview: MWDOC’s primary methods of marketing water use efficiency programs to consumers includes water bill inserts, cross program marketing, social media, and community events. Three times over the last five years, Staff has surveyed program participants regarding how they learned about our programs. The results of these surveys

are summarized in Table 1 below, which shows water bill inserts are the most effective and consistent marketing method we have used. Word-of-Mouth is another major way consumers learn about our programs.

Table 1: Methods by which participants become aware of MWDOC Water Use Efficiency Programs				
Survey	Water Bill Inserts	Participation in Other Programs (cross-program marketing via e-mail)	Through family, friends, coworker or neighbor	Social Media
1) Comprehensive Landscape Program Evaluation (2019)	24%	3%	16%	2%
2) Spray-to-Drip Customer Survey (2017)	27%	49%	8%	
3) Turf Removal Program Application (ongoing)	35%	5%	32%	6%
Average:	29%	19%	19%	4%

In light of our current drought emergency and MWDOC's limited ability to reach consumers, staff is proposing a one-year pilot marketing effort through the Motor Vehicle Network (MVN). MVN provides and maintains television monitors in Department of Motor Vehicles (DMV) offices in twenty-five states. These TV monitors switch between showing DMV patrons their place in line for appointments, public service announcements, and consumer advertising. The MVN broadcasts news, information, and entertainment via satellite onto large flat screen TVs that have been strategically placed inside the DMV offices. The content is designed to entertain and inform the DMV customers who are waiting to complete their transactions. All eyes are on the TV screens while the patrons wait to see if their number is next to be served.

Staff is proposing to use MVN to advertise our water use efficiency programs and drought awareness messaging to Orange County consumers. A number of water utilities currently utilize MVN to promote their water use efficiency programs, such as City of Oxnard, City of Santa Rosa, and Southern Nevada Water Authority. Additionally, according to Jim Costa at MVN, "We have many city and county clients in place throughout California that utilize our TV network. Just to name a few of those client categories: Child Support Services, Environmental Health Used Oil Programs, County Office of Education, School Districts, Transportation, Water Conservation, District Attorney Offices, etc." MWDOC will have the advertising space for one year (**1 year contract**) with first right of refusal for each year following. **All production of our advertisements is included.** Ads can be updated and changed at no cost. MVN will create our advertisements based on our objectives. MVN can use animation, video etc, and can create multilingual advertisements, as well. MVN provides all in-house graphic design production along with ongoing unlimited ad changes. Staff will provide MVN with basic messaging along with access to existing marketing materials. Staff will review and approve all ads prior to being activated.

The cost to utilize MVN in four Orange County DMVs for one year is \$34,800. With the inclusion of public agency and multiple DMV office discounts, the actual cost would be \$29,580. The proposed Orange County DMV offices are Costa Mesa, Laguna Hills, San Clemente, and Westminster. MVN estimates this investment will result in 10.9 million impressions throughout the year, which translates to \$0.003 per impression. By contrast, the cost per impression for Bill Inserts is \$0.024 per impression.

MVN marketing at Orange County DMVs would allow MWDOC access to consumers that we would not otherwise have access to.

At the conclusion of the one-year pilot, staff will conduct another marketing survey to measure the effectiveness of the various marketing efforts. Staff will utilize the survey results to gauge whether to continue utilizing MVN in the future.

BOARD OPTIONS

Option #1: Staff recommends the Board of Directors authorize:

1. A \$10,000 contribution to the California Water Efficiency Partnership toward the development of Water Use Efficiency Program Measurement & Verification Protocol, and,
2. The General Manager to enter into a contract with Motor Vehicle Network in the amount of \$29,580 for a one-year pilot Water Use Efficiency marketing campaign.

Fiscal Impact: None, funding is budgeted for the proposed research activities.

Business Analysis: The proposed research will expand staffs abilities to conduct in-house program analysis and evaluate a new and innovative program marketing opportunity.

Option #2: Do not approved funding for proposed research.

Fiscal Impact: Cost savings of \$39,580.

Business Analysis: Missed research opportunity.



INFORMATION ITEM

January 3, 2023

TO: Planning & Operations Committee
(Directors McVicker, Nederhood, Crane)

FROM: Robert Hunter, General Manager

Staff Contact: Damon Micalizzi

SUBJECT: 2023 Water Policy Forum & Dinner Schedule

STAFF RECOMMENDATION

Staff recommends the Public Affairs & Legislation Committee: Receive and file the report.

COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

REPORT

At the time of this report, more than 50 attendees are registered for MWD OC's upcoming Water Policy Forum & Dinner (Policy Dinner). The event will be held at the Westin Hotel in Costa Mesa on Thursday, February 9th. Adán Ortega, newly elected chairman of the board of directors of the Metropolitan Water District of Southern California, will be featured as the evening's keynote speaker.

Chairman Ortega, the principal of Ortega Strategies Group, has worked in government relations for 30 years and helped lead efforts to bring technical assistance to small water systems in disadvantaged communities around California. He served as Metropolitan's vice president of external affairs from 1999 to 2005. Prior to joining Metropolitan, Ortega served as chief deputy for then-Secretary of State Bill Jones and as assistant general manager of both West Basin and Central Basin municipal water districts. During this inaugural address, he will share what he hopes to accomplish on pivotal issues like drought response, the Delta Conveyance Project, and new local water resources.

The OC Water Summit will be held in June this year. As such, MWD OC public affairs staff plans to host Policy Dinners in August-September and November-December 2023.



INFORMATION ITEM

January 3, 2023

TO: Planning & Operations Committee
(Directors McVicker, Nederhood, Crane)

FROM: Robert Hunter, General Manager

Staff Contact: Sarah Wilson

SUBJECT: MWDOC Choice School Programs Update

STAFF RECOMMENDATION

Staff recommends the Planning & Operations Committee receive and file this report.

COMMITTEE RECOMMENDATION

Committee recommends (To be determined at Committee Meeting)

SUMMARY

The Municipal Water District of Orange County (MWDOC) K-12 Choice School Program contractors—Shows That Teach and Orange County Department of Education's Inside the Outdoors—continue to book live, interactive water lessons for the 2022/23 school year.

Included in this report is a preview of scheduled visits for the months of January and February 2023. MWDOC Choice School Program contractors update the shared Google Calendar so that participating member agencies are able to view the virtual sessions in their service area as they are booked. Please note that the shared Google Calendar is updated frequently, and will always have the most accurate information. Visits are subject to change due to school and teacher availability. Login information for the shared Google Calendar is available upon request.

DETAILED REPORT

Budgeted (Y/N): Y	Budgeted amount: \$430,221	Core <u> </u>	Choice <u>X</u>
Action item amount:		Line item: 63-7040	
Fiscal Impact (explain if unbudgeted):			

All MWDOC Choice School Programs incorporate hands-on interaction, pre- and post-program activities, and opportunities for family and community engagement. Sessions are offered to schools as either in-person or virtual. Included in this report is a detailed breakdown of each program's progress including teacher feedback, video links, and more.



**MWDOC Choice Elementary School
Program (Grades K-2)
January 3, 2023**

Shows That Teach offers Orange County students in grades K-2 fun and informative assemblies that use music, humor, and audience participation to engage students in water-centric topics such as the water cycle, water supply resources, and using water wisely. This interactive program also includes hands-on pre- and post-activities that encourage students to reflect on their relationship with water. This program is offered either in person or virtually to K-2 students combined. Multiple classrooms and grade levels can participate simultaneously.

COMPLETED PARTICIPATION TO DATE:

Totals reflect the number of presentations *completed* and students seen since the start of the 2022-2023 school year.

- **In-person presentations hosted:** 42
- **Virtual presentations hosted:** 0
- **Total number of students seen:** 7,789
- **Presentations have been completed in the following service areas:** City of Anaheim, East Orange County Water District, El Toro Water District, City of Fullerton, City of Garden Grove, City of Huntington Beach, City of La Palma, Moulton Niguel Water District, City of Orange, City of San Clemente, City of Santa Ana, South Coast Water District, Trabuco Canyon Water District, City of Tustin, City of Westminster

SCHEDULED PARTICIPATION TO DATE:

Totals reflect the number of presentations currently *scheduled* and students expected to participate in the upcoming months of the 2022-2023 school year.

- **In-person presentations scheduled:** 25
- **Virtual presentations scheduled:** 0
- **Total number of students expected:** 4,126
- **Upcoming presentations have been scheduled in the following service areas:** City of Anaheim, El Toro Water District, City of Garden Grove, City of Huntington Beach, Moulton Niguel Water District, City of Orange, City of Santa Ana, Santa Margarita Water District, City of Westminster

ADDITIONAL PROGRAM DETAILS AND MEASUREMENTS:

- “It was very engaging and students really enjoyed it.” – 2nd grade teacher, Carrillo Elementary School, City of Westminster service area

- “One of the best assemblies I've seen in my 20 years of teaching.” – 2nd grade teacher, Jefferson Elementary, City of Anaheim service area
- Photo taken at a “Waterology” session at Trabuco Elementary in Trabuco Canyon Water District’s service area



- Video feedback from teachers following a K-2 session.
 - Los Coyotes Elementary School in City of La Palma service area
<https://drive.google.com/file/d/1XflY6vrQIDmFI7uVayaNIqSsnM4PArvP/view?usp=sharing>
 - Gates Elementary School in El Toro Water District’s service area
https://drive.google.com/file/d/1A2w6EU-0IOdD0FBRdhRCdYRFXwLv0lhr/view?usp=share_link



**MWDOC Choice Elementary School
Program (Grades 3-5)
January 3, 2023**

Orange County Department of Education's Inside the Outdoors offers Orange County students in grades 3-5 interactive, grade-specific lessons that engage students in valuable instruction on the history of California water, local climate and water sources, and how to use water efficiently. Each session includes student prompted interaction, demonstrations, and pre- and post-activities that guide students to examine how access to a reliable source of drinking water is important to every community. Participating students and their families also receive resources that complement the topics covered during the classroom session. This program is offered either in person or virtually to students in grades 3-5.

- ◆ **3rd Grade:** Compare and describe diverse weather and climate data and explore personal choices to protect our local water resources.
- ◆ **4th Grade:** Identify the key role water plays in California's history including the growth and expansion of towns and cities.
- ◆ **5th Grade:** Examine existing water management solutions and determine ways to protect the quality and quantity of water.

COMPLETED PARTICIPATION TO DATE:

Totals reflect the number of presentations *completed* and students seen since the start of the 2022-2023 school year.

- ◆ **In-person presentations hosted:** 67
- ◆ **Virtual presentations hosted:** 0
- ◆ **Total number of students seen:** 4,598
- ◆ **Presentations have been completed in the following service areas:** City of Anaheim, City of Fullerton, City of Garden Grove, City of Huntington Beach, City of La Habra, City of Santa Ana, Santa Margarita Water District, South Coast Water District, City of Westminster, Yorba Linda Water District

SCHEDULED PARTICIPATION TO DATE:

Totals reflect the number of presentations currently *scheduled* and students expected to participate in the upcoming months of the 2022-2023 school year.

- ◆ **In-person presentations scheduled:** 69
- ◆ **Virtual presentations scheduled:** 0
- ◆ **Total number of students expected:** 5,860
- ◆ **Upcoming presentations have been scheduled in the following service areas:** City of Brea, El Toro Water District, City of Fullerton, City of Garden Grove, City of Huntington Beach, City of La Habra, Mesa Water, Moulton Niguel Water District, City

of San Clemente, City of Santa Ana, Santa Margarita Water District, South Coast Water District, City of Tustin, City of Westminster, Yorba Linda Water District

ADDITIONAL PROGRAM DETAILS AND MEASUREMENTS:

- “We were actually learning about California regions at that time, so it aligned with our social studies standards. The students had learned about the San Joaquin and Sacramento River in the Valley and the Mountain area so they were excited that they could relate to the content.” – 4th grade teacher, Danbrook Elementary, Centralia School District, City of Anaheim service area

To date, OCDE/ITO has received interest from schools in the following service areas and is working with teachers to schedule those sessions:

- Two (2) schools in the City of Garden Grove
- Two (2) schools in the City of Fountain Valley
- One (1) school in City of Westminster
- One (1) school in Moulton Niguel Water District
- Four (4) schools in City of Santa Ana
- One (1) school in City of Fountain Valley
- Two (2) schools in the City of Anaheim
- Two (2) schools in the City of Fullerton
- Two (2) schools in Santa Margarita Water District
- One (1) school in the City of Orange
- One (1) school in the City of La Palma



MWDOC Choice Middle and High School Programs (Grades 6-12)

January 3, 2023

Orange County Department of Education's Inside the Outdoors offers Orange County students in grades 6-12 grade-specific classroom sessions that guide students to investigate challenges faced by water providers and identify sources of human impact on the quality, quantity, and availability of water in their communities. Each session includes student prompted interaction, demonstrations, and pre- and post-activities that engage students in developing solutions to real-world problems. Participating students also have the opportunity to engage in field study or volunteer days of service to receive credit toward their required service hours. This program is offered either in person or virtually to students in grades 6-12.

- ◆ **6th-8th Grade:** Students analyze water samples to identify sources of potential pollution and form strategies to monitor or minimize pollution.
- ◆ **9th-12th Grade:** Students collect and analyze data to explore the role of the Sacramento-San Joaquin Delta and its connection to our local water resources.

COMPLETED PARTICIPATION TO DATE:

Totals reflect the number of presentations *completed* and students seen since the start of the 2022-2023 school year.

Middle School Program (Grades 6-8)

- ◆ **In-person presentations hosted:** 18
- ◆ **Virtual presentations hosted:** 0
- ◆ **Total number of students seen:** 520
- ◆ **Presentations have been completed in the following service areas:** City of San Clemente, City of Santa Ana, City of Tustin

High School Program (Grades 9-12)

- ◆ **In-person presentations hosted:** 3
- ◆ **Virtual presentations hosted:** 0
- ◆ **Total number of students seen:** 102
- ◆ **Presentations have been completed in the following service areas:** City of Anaheim

SCHEDULED PARTICIPATION TO DATE:

Totals reflect the number of presentations currently *scheduled* and students expected to participate in the upcoming months of the 2021-2022 school year.

Middle School Program (Grades 6-8)

- ◆ **In-person presentations scheduled:** 40
- ◆ **Virtual presentations scheduled:** 0
- ◆ **Total number of students expected:** 1,244
- ◆ **Upcoming presentations have been scheduled in the following service areas:**
City of Fountain Valley, City of San Clemente, City of Santa Ana

High School Program (Grades 9-12)

- ◆ **In-person presentations scheduled:** 2
- ◆ **Virtual presentations scheduled:** 0
- ◆ **Total number of students expected:** 64
- ◆ **Upcoming presentations have been scheduled in the following service areas:**
City of Santa Ana

ADDITIONAL PROGRAM DETAILS AND MEASUREMENTS:

- “Our students really got to work on their critical thinking skills as they engaged in the program. They continued to discuss the program long after it finished and it’s clear that they feel like they can take action based on what they learned. For 190 of my students to have had the chance to participate in this program, I feel very fortunate.” – 6th grade teacher, Columbus Tustin Middle School, Tustin Unified School District, City of Tustin service area

To date, OCDE/ITO has received interest from schools in the following service areas and is working with teachers to schedule those presentations:

- One (1) high school in Santa Margarita Water District

Mon	Tue	Wed	Thu	Fri
2	3	4	5	6
			K-2 GARDEN GROVE Eisenhower	
9	10	11	12	13
	3-5 Tustin - Sycamore Magnet K-2 SMWD Ambuehl Elem		3-5 Garden Grove - Zeyen School	3-5 Yorba Linda WD - Linda Vista
16	17	18	19	20
	3-5 Santa Ana - Heritage School K-2 SANTA ANA Newhope Elem	3-5 MOULTON NIGUEL WD - Linda	3-5 Brea - Arovista Elementary 3-5 Mesa WD - Sonora Elementary 3-5 Mesa WD - Whittier Elementary K-2 ORANGE California Elem	3-5 GARDEN GROVE - Lawrence K-2 ETWD San Joaquin Elem K-2 ORANGE Olive Elem
23	24	25	26	27
	6-8 Santa Ana - Santiago School K-2 SANTA ANA Santiago Elem	3-5 Moulton Niguel WD - Malcom	3-5 Garden Grove - Morningside K-2 ANAHEIM Centralia Elem K-2 WESTMINSTER Eastwood Elem	
30	31	1	2	3
	6-8 Santa Ana - Heninger School		3-5 Tustin - Nelson Elementary K-2 SANTA ANA St. Barbara Elem	3-5 Mesa WD - Killybrooke 3-5 Mesa WD - Wilson Elementary K-2 GARDEN GROVE Woodbury Elem K-2 SANTA ANA Orange County

Mon	Tue	Wed	Thu	Fri
30	31 6-8 Santa Ana - Hening School	1	2 3-5 Tustin - Nelson Elementary K-2 SANTA ANA St. Barbara Elem	3 3-5 Mesa WD - Killybrooke 3-5 Mesa WD - Wilson Elementary K-2 GARDEN GROVE Woodbury Elem K-2 SANTA ANA Orange County
6 3-5 Santa Ana - Roosevelt-Walker	7 3-5 Santa Ana - Roosevelt-Walker K-2 SANTA ANA Wilson Elem K-2 SMWD Oso Grande Elem	8	9 3-5 SANTA ANA - Harvey Elementary	10 3-5 Garden Grove - Violette
13	14	15	16	17 K-2 GARDEN GROVE Hill Elem
20	21 3-5 Tustin - Red Hill Elementary	22	23	24 3-5 Tustin - Estock Elementary 9-12 Santa Ana - Valley High School
27	28	1	2	3 3-5 Santa Margarita WD - Hankey K8

ENGINEERING & PLANNING	
Reliability Study Update	<p>Staff have been working with consultant CDM Smith and Metropolitan Water District (MET) staff on an update to the 2018 OC Water Reliability Study (2022 OC Study). Updating of the planning assumptions and understanding of the implications will be useful to our staff, Directors, MET Directors, and member agencies for future decision considerations. This update was launched because of significant changes in conditions since the publication of the 2018 OC Study.</p> <p>Preliminary findings were presented at the September 2022 P&O Committee.</p> <p>MWDOC staff was asked to investigate, and if possible, include likely benefits of Sites Reservoir on State Water Project supplies. Staff followed up with MET concerning the CALSIM modeling of Sites Reservoir for the Sites Project Authority. MET indicated the Project Authority modeling requires significant refinement before it can be useful for reliability planning. MWDOC staff will therefore include this work in next fiscal year's goals and budget for inclusion into the OC Study once the information is deemed appropriately refined.</p> <p>Additionally, forecast SWP supplies have been cross checked against forecasts in the Delta Conveyance Project Draft EIR and revised OC Study findings will be presented to the MWDOC Agencies Managers Meeting on January 12, 2023; followed by a presentation at P&O in February 2023.</p>
Water Use Efficiency Standards Analysis	<p>On May 2, 2022, the Board approved entering into an agreement with Water Systems Consulting (WSC) and sub-consultant M. Cubed to complete an economic analysis of proposed State water use efficiency standards. MWDOC has partnered with SMWD in funding this project. There are four main components of the scope of work:</p> <ol style="list-style-type: none"> 1. A customized version of the recently completed Urban Water Use Objective Analyzer (Model) developed by M. Cubed for the Department of Water Resources (DWR). M. Cubed customized the Model to allow individual retail agencies to evaluate the impacts of the proposed standards on their operations and customers. 2. Evaluate the relative impact of the proposed standards on Disadvantaged Communities (DACs). 3. Evaluate compliance cost estimates for MWDOC retail water agencies with information on water service affordability. 4. Develop a web interface of the Model using a visual analytics platform (i.e. dashboard). <p>The updated Model has been completed.</p> <p>Initial findings of the analysis were presented to MWDOC's member agencies on August 9, 2022. The study findings were presented at the September 14, 2022 A&F Committee meeting where a draft report was also provided.</p> <p>Next steps include inclusion of feedback from the A&F meeting, meeting with SMWD to address any final concerns, and completing the web interface portion</p>

	<p>of the project to allow agencies access to the customized Water Use Objective Analyzer for their own evaluation and planning efforts.</p>
<p>Doheny Ocean Desalination Project</p>	<p>South Coast Water District (SCWD) continues to develop the Doheny Ocean Desalination Project. SCWD estimates an on-line date of 2026, if approved by the SCWD Board.</p> <p>SCWD held a Special Board Meeting on September 2, 2021 to discuss the financial implications of the project. Clean Energy Capital (CEC) presented a water cost analysis for the project where CEC presented cost projections for a 2 MGD project with an estimated 1st year water cost of \$1,928/AF in 2021\$, and a 5 MGD project with an estimated 1st year water cost of \$1,479/AF in 2021\$ (later updated to \$1,807/AF in 2027\$ vs \$1,545/AF MET Rate in 2027\$).</p> <p>On December 9, 2022, the California State Lands Commission (CSLC), approved an Addendum to the Doheny Ocean Desalination Project Final Environmental Impact Report (EIR) along with the certified Final EIR. The EIR Addendum addresses a proposed CSLC lease for slant wells at Doheny State Beach (DSB). The new lease allows for construction and long-term operation of up to five slant wells at DSB.</p> <p>SCWD has now obtained the necessary environmental permitting for the 5 MGD project to move forward.</p>
<p>San Juan Basin Authority</p>	<p>The San Juan Basin Authority (SJBA) has been conducting a hydrogeology study of the San Juan Basin to better understand how groundwater flows through the lower portions of San Juan Basin under various conditions. How groundwater flows in the vicinity of Stonehill Drive is important due to potential impacts on pumping within the basin, and also may potentially influence pumping for the Doheny Desalination project.</p> <p>A technical review panel, consisting of three teams of hydrogeologists, presented their preliminary findings at a special meeting on May 12, 2022. The presentation is available from the SJBA website: https://www.sjbaauthority.com/meetings/meetings-2022.html (2022-05-12 SJBA Board Meeting TRP).</p> <p>The preliminary findings are:</p> <ol style="list-style-type: none"> 1. The Basin behaves like two separate areas or ‘buckets’ that are connected by bedrock ledge area in the vicinity of Stonehill Drive. The bedrock ledge operates similar to a spillway; which although not a boundary, does somewhat restrict flows under normal groundwater conditions. 2. Groundwater flows through the bedrock ledge area (spillway) are greatly restricted between the upper and lower portions of the basin when groundwater levels are low. This occurs during dry or excessive pumping periods. 3. Pumping on either side of the spillway (north or south) influences portions of the basin on the other side of the spillway. Without recharge and with continued pumping, groundwater levels at the divide could decline precipitously.

	<p>4. Saline intrusion in the basin result from seasonal or longer-term declines in freshwater recharge coupled with pumping. Pumping south of the spillway exacerbates saline intrusion more than pumping to the north. Pumping to the north contributes by restricting the flow of freshwater across the spillway.</p> <p>The Technical Review Panel is continuing additional geologic and geophysical assessment of the area; as well as additional monitoring of groundwater levels and flow across the spillway. The next SJBA meeting is scheduled for January 23, 2023.</p>
Shutdowns	<p>Orange County Feeder</p> <p>The purpose of the shutdown is to remove and dispose of the existing lining, reline the pipeline with cement mortar, weld straps, replace valves and install manholes on this 85+ year old pipeline from the Willits Street Pressure Control Structure (north of South Coast Plaza) to the Irvine Cross Feeder (south of UC Irvine).</p> <p>The Orange County Feeder shutdown began on September 18, 2022 and will continue through July 15, 2023. The shutdown schedule was revised to accommodate a requested schedule change for the Orange County Feeder Extension shutdown as described below.</p> <p>R6 Reservoir Rehabilitation</p> <p>El Toro WD is shutting down the 275 Million Gallon R6 Reservoir to replace the aging reservoir liner and cover. The reservoir will be offline from November 2022 through July 2023.</p> <p>Orange County Feeder Extension</p> <p>MET is preparing to reline the final 300-linear feet of the OC Feeder extension from the Irvine Cross Feeder to the terminus affecting the City of Newport Beach, Irvine Ranch WD, and Laguna Beach County WD.</p> <p>The shutdown will coincide with the above noted OC Feeder shutdown work between Willits PCS and the Irvine Cross Feeder from January 3 – 31, 2023. The Contractor will engage 4 separate work crews to complete the work.</p> <p>Lake Mathews Facility Shutdown</p> <p>Shutdown of the Lake Mathews Facility has been rescheduled for March 13-14, 2023. The following agencies will be affected during the shutdown: OCWD, YLWD, Serrano WD, IRWD, TCWD, ETWD, SMWD, MNWD, and the City of San Clemente.</p> <p>Orange County Reservoir</p> <p>The decommissioning of the Orange County Reservoir has been rescheduled to March 20, 2023 through March 25, 2023. This work will affect the cities of Brea and La Habra.</p>

	<p>Diemer Water Treatment Plant</p> <p>MET has rescheduled a 7-day shutdown of the Diemer WTP in order to repair a broken chlorine solution line to January 8-14, 2024. Finding a suitable window for this shutdown presented challenges due to numerous maintenance shutdowns by MET and retail agencies as well as fire danger concerns.</p> <p>Coinciding with the 7-day Diemer shutdown, the following pipelines will also be down for repairs:</p> <ul style="list-style-type: none"> • Allen-McColloch Pipeline • East Orange County Feeder No.1 • East Orange County Feeder No.2 • Lower Feeder (Treated) • Lower Feeder (Untreated) • Second Lower Feeder (portions)
Meetings	<p>Charles Busslinger attended the State Lands Commission meeting on December 9, 2022 in Sacramento in support of the Doheny Ocean Desalination Project.</p>
	<p>Charles Busslinger attended the December 14, 2022 Center for Demographic Research (CDR) Management Oversight Committee meeting. OC San has indicated that they are not going to continue as a full sponsor for the upcoming 3-year CDR sponsorship cycle.</p> <p>CDR continues to work with OC San and others to develop a solution to the funding shortfall.</p>
	<p>Charles Busslinger attended the Santiago Aqueduct Commission Quarterly meeting on December 15, 2022.</p>
	<p>Charles Busslinger coordinated and participated in a Santiago Lateral meeting on December 19, 2022 between MET, MWDOC, and OC agencies potentially affected by a proposed removal/replacement of valves upstream of OC-33/33A. The group worked through a number of operational issues and MET will return with a proposed solution that will preserve the ability to accommodate/meter low flows through Santiago Lateral.</p>

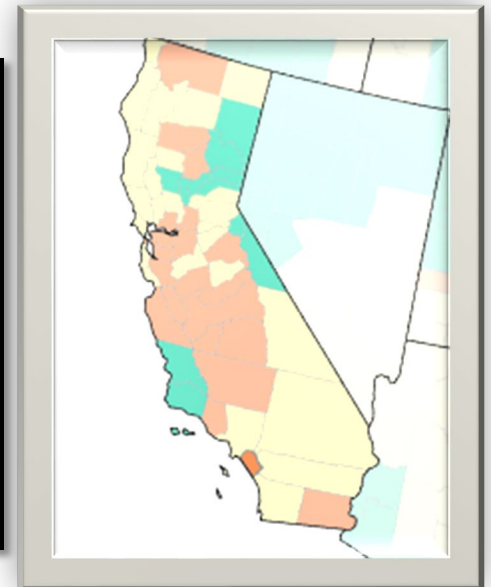
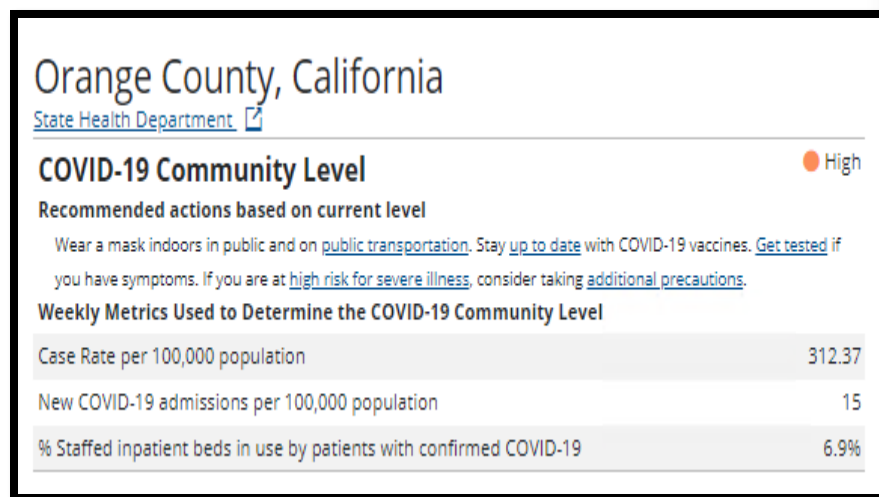
General Managers Report

WEROC Status Report

December 2022

COVID-19 (CORONA VIRUS) COORDINATION

- Orange County moved into the **High Level** rate of Community Spread on 12/23/22.



FEDERAL PUBLIC HEALTH EMERGENCY

Remains in effect until January 11, 2023

CALIFORNIA STATE OF EMERGENCY UPDATE

Governor Newsom to end the COVID-19 State of Emergency February 28, 2023

WEROC continues to host monthly coordination calls with member agencies to provide updates regarding COVID and other items occurring in the OA.

DECEMBER INCIDENTS/EVENTS (NON-COVID)

No Significant Events in December

COORDINATION/PARTICIPATION WITH MEMBER AGENCIES AND OUTSIDE AGENCIES MEETINGS OUTSIDE OF PROGRAMS AREAS AND EMERGENCY RESPONSE

- On 12/1, Vicki, Dave and Janine attended the monthly Orange County Emergency Management Organization (OCEMO) Meeting. In addition to monthly business, this was the end of year awards. Janine Schunk from WEROC was presented with the Helping Hands Award.
 - On 12/1, the second call with the US Territory of Guam. Guam is looking to establish a mutual aid network similar to CalWarn. Myself and Gary Sturvidian, the CalWARN VP provided technical information on how CalWARN works and the EMAC process.
 - On 12/6, Vicki attended ISDOC Executive Meeting and provided the Operational Area update.
 - On 12/6, Vicki attended the Diemer Full Scale Exercise After Action meeting and provided the objective outcomes for WEROC in regards to coordination with MET during an incident in Orange County.
 - On 12/6 WEROC conducted its monthly call with member agencies on COVID, Cyber, Supply Chain Issues and upcoming trainings in 2023.
 - On 12/8, Vicki attended the quarterly meeting with the Cal Fire Chiefs as the CESA State Board President.
 - On 12/9, Vicki attended the WACO monthly meeting and provided the Operational Area Water/Wastewater Activity report.
 - On 12.14, Vicki attended the State small water system and Domestic Wells SB 552 webinar.
 - On 12.15, Vicki attended the CalOSHA board meeting on the Non-emergency Covid Standards.
 - On 12/15, Vicki led the OCEMO leadership coordination meeting.
 - On 12/16 Vicki attended the NWS Climate Update for 2023.
 - On 12/16, Vicki conducted the CESA State Board meeting as the State President.
 - On 12/20, Vicki attended the CalWarn Board meeting as the Region 1 Chair.
 - On 12/20, Vicki participated in the CESA Emergency Management Certification Planning Meeting.
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PLANNING AND PROGRAM EFFORTS

AlertOC

On 12/13, Janine conducted an AlertOC training for the member agencies.

Cyber Security

WEROC continues to send out important information to the Cyber Security Distribution Group as received from DHS or the OCIAC.

Training and Exercises

The 2023 first quarter training schedule has been set and registered with the state. The course will include SEM/NIMS 100700 combined G611 EOC Section Series (Management, Operations, Planning, Logistics and Finance), 800MHz Radio Training, WEROC Recovery Training Part 2

Dave is coordinating with the agencies for participation in the May 2023 Operational Area Exercise.

Vicki developed a Cyber Security Hybrid Exercise (Tabletop with some function actions) for Santa Margarita Water District.

WEROC Budget and Funding Agencies Meeting

December marks the time when WEROC drafts its budget and end of year report by way of the Funding Agency Memo which outlines the accomplishments for the past year and the goals/objectives for the next FY. This information and an invite to the agencies was sent for a meeting on January 26th.

WEROC Emergency Operations Center Project

The 95% designs were received from the architect. The design phase will continue until completion. We are waiting for the 100% designs from the architect and will present to the board at this time.

WEROC GIS Dashboard

Dave continues to work on the GIS Dashboard after receiving positive responses from member agencies. As part of the damage assessment feature, the goal is to include this as a field component during the May exercise.

WEROC Planning Documents Updated in December

- WEROC EOC Planning “P” document
- WEROC Business Process Document for use in the EOC
- WEROC Initial EOC Staffing Checklist

**Status of Water Use Efficiency Projects
December 2022**

Description	Lead Agency	Status % Complete	Scheduled Completion or Renewal Date	Comments
SoCal WaterSmart Residential Indoor Rebate Program	MWDSC	Ongoing	Ongoing	In November 2022, 95 high efficiency clothes washers and 24 premium high efficiency toilets were installed in Orange County. To date, 127,095 high efficiency clothes washers and 60,916 high efficiency toilets have been installed through this program.
SoCal WaterSmart Commercial Rebate Program	MWDSC	Ongoing	Ongoing	In November 2022, 542 commercial premium high efficiency toilets were installed in Orange County. To date, 113,325 commercial devices have been installed through this program.
Flow-Monitoring Device Rebate Program	MWDSC	Ongoing	Ongoing	In November 2022, 2 flow-monitoring devices were installed in Orange County. To date, 51 flow-monitoring devices have been installed through this program.
Smart Timer Rebate Program	MWDSC	Ongoing	Ongoing	In November 2022, 105 residential and 27 commercial smart timers were installed in Orange County. To date, 33,847 smart timers have been installed through this program.
Rotating Nozzles Rebate Program	MWDSC	Ongoing	Ongoing	In November 2022, 299 rotating nozzles and 1,270 large rotary nozzles were installed in Orange County. To date, 576,426 rotating nozzles have been installed through this program.

Description	Lead Agency	Status % Complete	Scheduled Completion or Renewal Date	Comments
Rain Barrel Rebate Program	MWDSC	Ongoing	Ongoing	In November 2022, 10 rain barrels were installed in Orange County. To date, 8,715 rain barrels have been installed through this program.
Turf Removal Program	MWDOC	Ongoing	Ongoing	In November 2022, 65 rebates were paid, representing \$875,501.71 in rebates paid this month in Orange County. To date, the Turf Removal Program has removed approximately 25.1 million square feet of turf.
Spray to Drip Rebate Program	MWDOC	Ongoing	Ongoing	In November 2022, 24 rebates were paid, representing \$88,434.04 in rebates paid this month in Orange County. To date, the Spray to Drip Program has converted approximately 2.2 million square feet of standard spray irrigation to drip irrigation.
Landscape Design and Landscape Maintenance Assistance Programs	MWDOC	Ongoing	Ongoing	In November 2022, 26 landscape design packages and 12 landscape maintenance packages were delivered to MWDOC Turf Removal Program customers. To date, 637 landscape design packages and 197 landscape maintenance packages have been delivered to MWDOC Turf Removal Program customers.
Industrial Process/ Water Savings Incentive Program (WSIP)	MWDSC	Ongoing	Ongoing	This program is designed to improve water efficiency for commercial customers through upgraded equipment or services that do not qualify for standard rebates. Incentives are based on the amount of water customers save and allow customers to implement custom water-saving projects.

Description	Lead Agency	Status % Complete	Scheduled Completion or Renewal Date	Comments
Industrial Process/ Water Savings Incentive Program (WSIP) cont.				Total water savings to date for the entire program is 1,284 AFY and 6,365 AF cumulatively.
Recycled Water Retrofit Program	MWDSC	Ongoing	Ongoing	This program provides incentives to commercial sites for converting dedicated irrigation meters to recycled water. To date, 182 sites, irrigating a total of 1,672 acres of landscape, have been converted. The total potable water savings achieved by these projects is 3,687 AFY and 21,928 AF cumulatively.

Public & Governmental Affairs Activities Report
November 30, 2022 – December 27, 2022

Community and Member Agency Relations	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> Prepared and distributed the December issue of eCurrents: https://conta.cc/3PdDXEo <ul style="list-style-type: none"> Sent to 10,377 recipients Open rate: 55.4% (5,613 opens) <ul style="list-style-type: none"> Industry average 22% <p>Government Affairs Staff:</p> <ul style="list-style-type: none"> Circulated the monthly Grants Tracking and Acquisition Report to member agencies Made updates to the grants distribution and project list
Education	<p>Public Affairs Staff</p> <ul style="list-style-type: none"> Attended the MWDOC K-2 Choice School Program session at RH Dana Elementary School Attended the 6th grade session at Shorecliffs Middle School offered by MWDOC's 3-12 Choice School Program contractor, Orange County Department of Education's Inside the Outdoors Provided information regarding the MWDOC K-12 Choice School Programs to the City of Santa Ana, City of Anaheim, South Coast Water District, and El Toro Water District Met with Orange County Department of Education's Inside the Outdoors team to discuss the 3-5; 6-8; and 9-12 program progress and outreach Provided 2023 Water Awareness Poster Contest flyer and accompanying Grab-and-Go activity to MWDOC K-12 Choice School Program contractors for distribution Participated in San Bernardino Community College District's (SBCCD) Water Supply Technology Advisory Committee meeting Provided a letter of support for a SBCCD's proposed Baccalaureate Degree Program from the Water Energy Education Alliance
Media Outreach and Distribution	<p>Public Affairs Staff</p> <ul style="list-style-type: none"> Prepared and distributed content for social media Prepared and distributed Press Release announcing new Director Distributed weekly news digests to MWDOC managers and Board Distributed weekly Association of Metropolitan Water Agencies (AMWA) Monday briefings for member agencies Prepared and submitted the following article to Association of California Water Agencies News: <ul style="list-style-type: none"> MWDOC Provides 5 Key Benefits of Cultivating a Water-Smart Garden
Special Projects	<p>Public Affairs Staff:</p> <ul style="list-style-type: none"> Responded to MWDOC department requests for website information and published website updates Prepared and distributed the Save the Date for the MWDOC Water Policy Forum & Dinner on February 9, 2023, featuring Adán Ortega

	<ul style="list-style-type: none"> • Began coordinating a Colorado River Aqueduct inspection trip with Directors Erdman from MWDOC and Smith from San Diego County Water Authority • Updated MWDOC website with Division 5 Director Dr. Randall Crane's information • Met with California Environmental Education Foundation to discuss tactics for distributing the Water Energy Education Alliance career brochures • Met with Good Green Work to discuss strategies for collecting labor market data to inform a statewide Roadmap to Green and Blue careers • Attended The Metropolitan Water District of Southern California's Public Information Officers meeting • Attended a California Association of Public Information Officials and Association of California Water Agencies webinar on demystifying communications strategies for diverse communities • Met with the Water Replenishment District, PERC Water Corporation, Los Angeles Department of Water and Power, and California Environmental Education Foundation to discuss a potential panel for an upcoming Water Energy Education Alliance Roundtable meeting <p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> • Attended sessions at the ACWA Fall Conference in Indian Wells including the Federal Forum, water supply strategies, and water use efficiency • Coordinated with the December WACO speaker, collecting information for the script and slide deck • Staffed the ISDOC Executive Committee meeting • Along with Harvey De La Torre, met with OC LAFCO Executive Director, Carolyn Emery • Staffed the WACO meeting featuring guest speaker, John Shamma • Attended the Colorado River Water Users Association (CRWUA) conference in Las Vegas • Provided input and feedback to the new ISDOC President on upcoming agenda items • Staffed the WACO Planning Committee meeting
Legislative Affairs	<p>Governmental Affairs Staff:</p> <ul style="list-style-type: none"> • Attended the ACWA Federal Affairs Committee meeting • Provided feedback to Metropolitan staff on their annual legislative priorities update