MesaWater DISTRICT

Dedicated to Satisfying our Community's Water Needs

AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Tuesday, June 28, 2022
1965 Placentia Avenue, Costa Mesa, CA 92627
3:30 p.m. Adjourned Regular Board Meeting

BOARD OF DIRECTORS COMMITTEE MEETING

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

Items Not on the Agenda: Members of the public are invited to address the Board regarding items which are not appearing on the posted agenda. Each speaker shall be limited to three minutes. The Board will set aside 30 minutes for public comments for items not appearing on the posted agenda.

Items on the Agenda: Members of the public shall be permitted to comment on agenda items before action is taken, or after the Board has discussed the item. Each speaker shall be limited to three minutes. The Board will set aside 60 minutes for public comments for items appearing on the posted agenda.

ITEMS TO BE ADDED, REMOVED, OR REORDERED ON THE AGENDA
At the discretion of the Board, all items appearing on this agenda, whether or not expressly listed as an Action Item, may be deliberated and may be subject to action by the Board.

CONSENT CALENDAR ITEMS:
Approve all matters under the Consent Calendar by one motion unless a Board member, staff, or a member of the public requests a separate action.

1. Receive and file the Developer Project Status Report.
2. Receive and file the Mesa Water and Other Agency Projects Status Report.
3. Receive and file the Water Quality Call Report.
4. Receive and file the Water Operations Status Report.
5. Receive and file the Accounts Paid Listing.
6. Receive and file the Monthly Financial Reports.
7. Receive and file the Major Staff Projects.
8. Receive and file the State Advocacy Update.
9. Receive and file the Orange County Update.
10. Receive and file the Outreach Update.

PRESENTATION AND DISCUSSION ITEMS:

11. CA DROUGHT RESPONSE – COMPLIANCE WITH STATE WATER BOARD REGULATIONS:

    Recommendation: Receive the presentation.

12. PUBLIC AFFAIRS FISCAL YEAR 2022 ACCOMPLISHMENTS:

Recommendation: Receive the presentation.

13. ORANGE COUNTY GRAND JURY REPORT – *WATER IN ORANGE COUNTY NEEDS "ONE VOICE":*

Recommendation: Receive the presentation.

ACTION ITEMS:

14. 2022 PUBLIC HEALTH GOALS REPORT:

Recommendation: Recommend that the Board of Directors accepts the Report on Mesa Water District's Water Quality relative to the 2022 Public Health Goals and receives comments at the Public Hearing scheduled for the July 13, 2022 Board meeting.

REPORTS:

15. REPORT OF THE GENERAL MANAGER

16. DIRECTORS' REPORTS AND COMMENTS

INFORMATION ITEMS:

17. WELL NO. 7 PUMP REHABILITATION

18. OTHER (NO ENCLOSURE)

CLOSED SESSION:

19. CONFERENCE WITH GENERAL LEGAL COUNSEL – ANTICIPATED LITIGATION: Initiation of litigation pursuant to California Government Code Section 54956.9 (d) (4). Number of Cases: 1

In compliance with California law and the Americans with Disabilities Act, if you need disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please call the District Secretary at (949) 631-1205. Notification 48 hours prior to the meeting will enable Mesa Water District (Mesa Water®) to make reasonable arrangements to accommodate your requests.

Members of the public desiring to make verbal comments using a translator to present their comments into English shall be provided reasonable time accommodations that are consistent with California law.

Agenda materials that are public records, which have been distributed to a majority of the Mesa Water Board of Directors (Board), will be available for public inspection at the District Boardroom, 1965 Placentia Avenue, Costa Mesa, CA and on Mesa Water's website at ***www.MesaWater.org****. If materials are distributed to the Board less than 72 hours prior or during the meeting, the materials will be available at the time of the meeting.*

ADJOURN TO A REGULAR BOARD MEETING SCHEDULED FOR WEDNESDAY, JULY 13, 2022 AT 4:30 P.M.

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0014-21-01	1170 Baker Street, Units C and D	Commercial Building	Plans received on 7/15/20 and plan check fees paid on 7/20/20. Redlines returned on 7/23/20. 2nd plan check submitted 8/13/20 and redlines returned on 8/14/20. 3rd plan check submitted 8/31/20 and returned on 9/6/20. Permit issued on 10/23/20. Inspector visited site on 11/16/21 to check status of project. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. Termination of service letter due to noncompliance of plan check sent on 6/20/22. (6/20/22)
C0071-20-01	2277 Harbor Boulevard	Apartment Complex	Plans received and plan check fees paid on 3/17/20 and redlines returned on 3/26/20. 2nd plan check received on 3/31/20. 2nd plan check submitted on 4/5/20 and redlines returned on 4/8/20. Quitclaim exemption on 10/9/20. Permit issued on 12/22/20. Precon held on 4/22/21. Future hydrant placement inspected on 5/13/21. Hot Tap inspected on 6/23/21. Second Precon with new Contractor held on 7/14/21. Shutdown for Abandonment on 8/10/21. Pressure test and thrust block placement on 10/11/21. Chlorination swab and flowthru tests performed on 10/13/21. Bac-T tests completed on 10/28/21. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0092-19-01	2089 Harbor Boulevard (Harbor and Hamilton)	28 New Townhomes	Plans received and plan check fees paid on 4/23/19. 1st plan check submitted 4/23/19 and redlines to be picked up on 5/6/19. 2nd plan check submitted on 6/11/19 and redlines picked up on 6/18/19. 3rd plan check submitted on 11/25/19 and redlines returned to customer on 11/27/19. 4th plan check submitted on 2/4/20 and redlines emailed to customer on 2/12/20. Permit issued 6/6/20. Precon meeting held on 6/25/20. Hot taps done on 10/9/20, 10/12/20, 10/13/20. 29 Meters installed on 10/15/20. Shutdown to tie in the fireline on 10/15/20. Two backflows tested on 10/23/20. Abandonment completed on 10/28/20. Meter install on 11/2/20. Service abandonments performed on 1/7/21. Flow tests performed on two buildings on 3/18/21. Flowthru test for seven homes completed on 8/18/21, and another 10 homes on 10/11/21, and tested again on 10/13/21. Flowthru tests completed on 2/3/22. Chlorination flushing, pressure tests, Bac-T tests done on 2/8/22. Final flowthru tests completed on 3/24/22. Revised 1 plan check received on 5/20/22 and returned on 5/22/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0102-20-02	3550 Cadillac Avenue	Commercial	Plans received and plan check fees paid on 11/25/19. 1st plan check submitted 11/25/19 and redlines emailed on 12/4/19. Issued plan check application termination to Owner due to non-responsiveness to complete plan check process. 2nd plan check submitted on 7/2/20 and returned on 7/5/20. 3rd plan check submitted on 7/25/21 and returned on 7/31/21. 4th plan check submitted on 8/24/21 and returned on 8/29/21. 5th plan check submitted on 10/11/21 and returned on 10/12/21. 6th plan check submitted on 10/22/21 and returned on 10/23/21. 7th plan check received 2/15/22 and returned on 2/17/22. (6/17/22)
C0105-20-01	3333 Avenue of the Arts	Commercial	Plans received and plan check fees paid on 7/24/19. 1st plan check submitted 7/26/19 and redlines to be picked up on 7/26/19. 2nd plan check submitted on 8/30/19 and resubmitted on 9/11/19. 3rd plan check resubmitted on 10/8/19. Permit approved and final fees paid on 10/24/19. Precon held on 11/24/19. Temporary RW pipeline inspected and approved on 11/27/19 and report sent to DDW on 12/4/19. Precon meeting conducted on 3/5/21. Mainline and Fireline excavations inspected on 3/12/21. Services installed on 4/1/21. Meters installed on 4/6/21. Backflow tests performed on 4/7/21. Backfill and compaction completed on 4/8/21. Meter installed and locked off on 5/17/21. Cross connection test #1 of #2 completed 1/12/22. Shutdown to tie-in to Backflow on 1/19/22. Backflow tests passed on 4/7/22. Shutdown to tie-into Backflow on 1/19/22. Hydrant work Precon held on 4/28/22. Excavating done on 5/2/22 and 5/3/22. Supervisor inspected abandoned fire hydrant on 6/13/22. (6/17/22)
C0137-20-01	3001 Murray Lane	Single Family Home	Plans received and plan check fees paid on 2/28/20. 1st plan check submitted on 2/28/20 and redlines returned on 3/9/20. 2nd submittal submitted on 9/30/20 and returned on 10/11/20. 3rd plan check submitted on 4/30/21 and returned on 5/2/21. 3rd plan check submitted on 5/2/21 and returned on 5/2/21. Permit issued on 10/5/21. Waiting for Owner to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0147-22-01	2701 Fairview Road	College - Chemistry Building	Application for New Service received on 5/27/22 and no plan check to be paid. 1st plan check submitted on 1/6/22 and returned on 6/14/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0150-20-02	165 Merrill Place	Single Family Home	Plans received on 7/3/20 and plan check fees paid on 6/25/20. 1st plan check submitted on 6/25/20 and redlines returned on 7/5/20. Rescinded permit on 9/16/20. 2nd plan check submitted 9/28/20 and returned on 9/29/20. Issued permit on 10/27/20. Precon held on 3/17/21. Inspector visited site on 11/15/21 to check status of project. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0158-21-01	396 E. 21st Street	Mobile Home Park	Plan check fees paid on 8/13/20 and Application for New Service submitted on 8/7/20. 1st plan check submitted on 7/30/20 and returned on 8/15/20. 2nd plan check submitted on 9/2/20 was rejected. Revised 2nd plan check submitted on 9/10/20 and returned on 9/12/20. Issued permit on 10/27/20. Precon held on 5/27/21. Inspector visited site on 11/15/21 to check status of project. Just vacant land currently. Waiting for Contractor to call for next inspection and extending permit for 6 months. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0165-21-01	2110 Monrovia Avenue	Single Family Home	Plan check fees paid and Application for New Service submitted on 9/3/20. 1st plan check submitted on 9/2/20 and returned on 9/6/20. Issued permit on 9/17/20. Inspector visited site on 11/15/21 to check status of project. Waiting for Contractor to call for next inspection and extending permit for 6 months. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0169-21-01	785 Center Street	Single Family Home	Plan check fees paid and Application for New Service submitted on 9/14/20. 1st plan check submitted on 9/14/20 and returned on 9/18/20. 2nd plan check submitted on 9/24/20 and returned on 9/25/20. Issued permit on 10/5/20. Site presurvey completed on 12/28/20. Inspector visited site on 11/15/21 to check status of project. No work is being done at this time. Waiting for Contractor to call for next inspection and extending permit for 6 months. Inspector dispatched to check job progress on 6/17/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0176-21-01	752-756 W. 19th Street	Mix Use	Application for New Service and plan check fees submitted on 12/21/20. 1st plan check submitted on 12/21/20 and returned on 12/23/20. 2nd plan check submitted 1/25/21 and returned on 2/2/21. 3rd plan check submitted on 2/15 and returned on 2/15/21. 4th plan check submitted on 11/16/21 and returned on 11/20/21. 5th plan check submitted on 11/21/21 and returned on 11/21/21. 6th plan check resubmitted on 11/23/21 and returned on 11/23/21. 7th plan check submitted on 11/29/21 and returned on 11/30/21. 8th plan check submitted on 12/3/21 and returned on 12/4/21. Permit issued on 1/10/22. Precon held on 2/22/22. Hot Tap and services installed on 4/18/22, on 5/25/22 and again on 6/15/22. (6/17/22)
C0177-21-01	2141 Orange Avenue	Single Family Home	Application for New Service and plan check fee submitted on 12/21/20 and returned on 12/23/20. 2nd plan check submitted on 12/24/20 and returned on 12/24/20. Issued permit on 1/5/21. Inspector dispatched to check job progress on 11/15/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0183-21-01	148 E. 22nd Street	St. Mary Armenian Church	Plan check fee received on 2/4/21 and Application for New Service received on 6/22/21. 1st plan check submitted on 6/22/21 and returned on 7/3/21. 2nd plan check submitted on 9/15/21 and returned on 9/18/21. Permit issued on 11/16/21. Precon completed 2/7/22 and project to be built in 2 phases. Test shutdown on 2/11/22. Shutdown to cut-in tee completed on 2/14/22. Chlorination flush, swab, pressure test done on 2/22/22, and chlorination flush again on 2/23/22. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0184-21-01	238 Flower Street	Single Family Home	Application for New Service submitted on 02/2/21 and plan check fee received on 02/01/21. 1st plan check submitted on 02/16/21 and redlines returned on 2/20/21. 2nd plan check submitted on 2/25/21 and returned on 2/28/21. Issued permit on 3/5/21. Inspector visited site on 11/12/21 to check status of project. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0186-21-01	2033 Lemnos Drive	Single Family Home	Application for New Service submitted on 02/27/21 and plan check fee received on 02/26/21. 1st plan check submitted on 2/26/21 and returned on 2/28/21. Issued permit on 3/17/21. Precon meeting held on 5/25/21. Trench excavations inspected on 5/26/21. Inspector visited site on 11/12/21 to check status of project. Precon refresher with new Contractor on 6/10/22. (6/17/22)
C0188-21-01	3190 Pullman Street	Commercial Property	Application for New Service submitted on 3/1/21 and plan check fee received on 3/4/21. 1st plan check submitted on 3/2/21 and returned on 3/5/21. 2nd plan check submitted on 3/12/21 and returned on 3/14/21. Consultant working on 3rd submittal as of 3/4/22. (6/17/22)
C0189-21-01	975 W. 18th Street	Commercial Property	Application for New Service submitted on 03/04/21 and plan check fee received on 03/04/21. 1st plan check submitted on 3/4/21 and returned on 3/5/21. Inspector visited jobsite to check status with nothing new to report on 3/9/21. 2nd plan check submitted on 3/18/21 and returned on 3/19/21. 3rd plan check submitted on 6/13/21 and returned on 6/13/21. 4th plan check submitted on 7/29/21 and returned on 7/30/21. Permit issued on 9/1/21. Precon meeting held on 9/9/21. Meter installed and locked off on 9/16/21. Chlorination flush completed on 9/22/21. Reinspected backflow device and size on 4/29/22. Backflow tested on 5/12/22. Bac-T test and backflow test on 5/16/22, and again on 5/18/22. (6/17/22)
C0192-21-01	1750 Santa Ana Avenue	Single Family Home	Application for New Service submitted on 4/16/21 and plan check fee received on 4/17/21. 1st plan check submitted on 5/3/21 and returned on 5/3/21. 2nd plan check submitted on 6/2/21 and returned on 6/4/21. (6/17/22)
C0193-21-01	908 Magellan Street	Single Family Home	Application for New Service submitted on 4/19/21 and plan check fee received on 4/19/21. 1st plan check submitted on 4/19/21 and returned on 5/3/21. 2nd plan check submitted on 10/5/21 and returned on 10/5/21. 3rd plan check submitted on 1/22/22 and returned on 1/22/22. Permit issued on 2/15/22. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0194-21-01	981 Presidio Drive	Single Family Home	Application for New Service submitted on 4/20/21 and plan check fee received on 4/20/21. 1st plan check submitted on 9/7/21 and returned on 9/8/21. 2nd plan check submitted on 10/8/21 and returned on 10/10/21. Permit issued 3/7/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0195-21-01	2247 Donnie Road	Single Family Home	Application for New Service submitted on 4/22/21 and plan check fee received on 6/27/21. 1st plan check submitted on 6/24/21 and returned on 6/25/21. 2nd plan check submitted on 6/24/21 and returned on 6/25/21.Permit issued 7/9/21. Precon held on 7/14/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0198-21-01	257 Knox Place	Single Family Home	Application for New Service submitted on 5/7/21 and plan check fee received on 5/7/21. 1st plan check submitted on 5/8/21 and returned on 5/9/21. 2nd plan check submitted on 5/16/21 and returned on 5/17/21. Issued permit on 6/4/21. Inspector visited site on 11/10/21 to check status of project. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0201-21-01	3370 Harbor Boulevard (The Press)	Commercial Property	Application for New Service submitted on 5/12/21 and plan check fee submitted on 5/26/21. 1st plan check submitted on 5/12/21 and returned on 6/6/21. 2nd plan check submitted on 6/22/21 and returned on 6/25/21. 3rd plan check submitted on 8/10/21 and returned on 8/13/21. Permit issued on 6/13/22. (6/17/22)
C0202-21-01	1910 Federal Avenue	Single Family Home	Application for New Service submitted on 5/18/21 and plan check fee submitted on 5/18/21. 1st plan check submitted on 5/25/21 and returned on 6/3/21. 2nd plan check submitted on 8/30/21 and returned on 8/30/21. 3rd plan check submitted on 8/31/21 and returned on 9/1/21. Permit issued on 3/7/22. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0203-21-01	762 Center Street	Single Family Home	Application for New Service submitted on 4/14/21 and plan check fee submitted on 5/26/21. 1st plan check submitted on 5/26/21 and returned on 6/4/21. (6/17/22)
C0204-21-01	3106 Fernheath Lane	Single Family Home	Application for New Service submitted on 6/2/21 and plan check fee submitted on 6/2/21. 1st plan check submitted on 6/2/21 and returned on 6/4/21. 2nd plan check submitted on 6/22/21 and returned on 6/25/21. 3rd plan check submitted on 6/30/21 and returned on 7/1/21. Permit issued on 9/1/21. Precon held on 11/30/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0206-21-01	2168 Placentia Avenue	Single Family Home	Application for New Service and plan check fee submitted on 6/11/21. 1st plan check submitted on 6/11/21 and returned on 6/13/21. 2nd plan check submitted on 6/23/21 and returned on 6/25/21. 3rd plan check submitted on 6/28/21 and returned on 6/28/21. Permit issued on 8/13/21. Precon held on 8/17/21. Edison wire relocation supervised by Mesa Water on 6/16/22. (6/17/22)
C0207-22-01	3078 Roanoke Lane	Single Family Home	Application for New Service and plan check fee submitted on 7/6/21. 1st plan check submitted on 7/6/21 and returned on 7/9/21. 2nd plan check submitted on 12/9/21 and returned on 2/10/22. Permit issued on 2/22/22. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0208-22-01	1951 Rosemary Place	Single Family Home	Application for New Service and plan check fee submitted on 7/7/21. 1st plan check submitted on 7/7/21 and returned on 7/9/21. 2nd plan check submitted on 7/15/21 and returned on 7/15/21. Permit issued on 8/13/21. Inspector visited site on 11/10/21 to check status of project. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0210-22-01	1730 Bonaire Way	Single Family Home	Application for New Service and plan check fee submitted on 7/21/21. 1st plan check submitted on 8/3/21 and returned on 8/13/21. 2nd plan check submitted on 8/27/21 and returned on 8/27/21. Permit issued on 3/11/22. Precon held on 3/21/22. Meter upgraded and locked off on 3/28/22. Waiting for Contractor to call for next inspection. (6/17/22)
C0211-22-01	274 Cecil Place	Single Family Home	Waiting for Application for New Service. plan check fee submitted on 7/21/21. 1st plan check submitted on 7/22/21 and returned on 7/30/21. 2nd plan check submitted on 10/14/21 and returned on 10/15/21. Permit issued on 12/22/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0213-22-01	366 Esther Avenue	Single Family Home	Application for New Service and plan check fee submitted on 7/6/21. 1st plan check submitted on 7/6/21 and returned on 7/9/21. 2nd plan check submitted on 8/19/21 and returned on 8/20/21. 3rd plan check submitted on 2/10/22 and returned on 2/10/22. Permit issued on 5/30/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0214-22-01	366 Ralcam Place	Single Family Home	Application for New Service submitted on 7/22/21 and plan check fee submitted on 7/29/21. 1st plan check submitted on 8/2/21 and returned on 8/2/21. 2nd plan check submitted on 9/7/21 and returned on 9/8/21. (6/17/22)
C0215-22-01	320 Colleen Place	Single Family Home	Application for New Service submitted on 8/2/21 and plan check fee submitted on 8/20/21.1st plan check submitted on 8/2/21 and returned on 8/20/21. 2nd plan check submitted 9/3/21 and returned on 9/5/21. 3rd plan check submitted on 2/10/22 and returned on 2/10/22. Permit issed on 3/11/22. Precon held on 3/24/22, and a refresher precon with new Contractor held on 5/10/22. (6/17/22)
C0216-22-01	2750 Harbor Boulevard	Commercial Property	Application for New Service submitted on 8/17/21 and waiting for plan check fee.1st plan check submitted on 8/17/21 and returned on 8/20/21. 2nd plan check submitted on 8/20/21 and returned on 9/7/21. (6/17/22)
C0217-22-01	1921 & 1923 Church Street	Two (2) Single Family Homes	Application for New Service submitted on 8/22/21. Plan check fee submitted on 1/10/22. 1st plan check submitted on 8/21/21 and returned on 1/15/22. 2nd plan check submitted 1/19/22 and returned on 1/23/22. 3rd plan check submitted on 1/23/22 and returned on 1/23/22. Permit issued on 3/29/22. Precon held on 4/4/22. Hot tap and services installed on 4/11/22. Meters installed and locked off on 4/14/22. Flowthru test for #1921 only completed on 6/9/22. (6/17/22)
C0220-22-01	3109 Lincoln Way	Single Family Home	Application for New Service and plan check fee submitted on 9/8/21. 1st plan check submitted on 9/8/21 and returned on 9/8/21. 2nd plan check submitted on 9/8/21 and returned on 9/14/21. 3rd plan check submitted on 1/19/22 and returned on 1/19/22. Permit issued on 2/22/22. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0222-22-01	257 Flower Street	Single Family Home	Application for New Service submitted on 9/9/21. and plan check fee submitted on 9/14/21. 1st plan check submitted on 10/11/21 and returned on 10/11/21. 2nd plan check submitted on 10/20 and returned on 10/20/21. 3rd plan check submitted on 2/16/22 and returned on 2/17/22. Permit issued on 3/11/22. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0223-22-01	2425 Windward Lane	Single Family Home	Application for New Service submitted on 9/9/21. and plan check fee submitted on 9/14/21. 1st plan check submitted on 10/20/21 and returned on 10/20/21. 2nd plan check submitted on 2/16/22 and returned on 2/17/22. Permit issued on 3/7/22. Waiting for Contractor to call for inspection. (6/17/22)
C0227-22-01	246 Cecil Place	Single Family Home	Application for New Service submitted on 9/27/21 and plan check fee submitted on 9/28/21. 1st plan check submitted on 9/27/21 and returned on 10/9/21. Permit issued on 1/6/22. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0228-22-01	319 E. 16th Place	Single Family Home	Application for New Service submitted on 9/29/21 and waiting on the plan check fee submittal. 1st plan check submitted on 9/30/21 and returned on 10/9/21. Revised 1st submittal and resubmitted on 10/15/21. 2nd plan check submitted on 10/26/21 and returned on 10/29/21. Permit issued on 11/30/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0230-22-01	1945 Placentia Avenue (Units B, F & G)	Commercial	Application for New Service submitted on 10/06/21 and the waiting for plan check fee. 1st plan check submitted on 10/05/21 and returned 10/9/21. 2nd plan check submitted 11/11/21 and returned on 11/18/21. Permit issued on 2/15/22. Precon held on 3/23/22. Waiting for Contractor to call for next inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0231-22-01	456 Esther Street	Single Family Home	Application for New Service and plan check fee submitted on 10/06/21. 1st plan check submitted on 10/06/21 and returned on 10/10/21. 2nd plan check submitted on 10/14/21 and returned on 10/15/21. Permit issued on 11/9/21. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. Precon meeting held on 6/21/22. (6/21/22)
C0233-22-01	473 Ogle Street	Single Family Home	Application for New Service submitted on 10/25/21. Plan check fee submitted on 11/1/21. 1st plan check submitted on 10/25/21 and returned on 10/29/21. 2nd plan check submitted on 11/3/21 and returned on 11/5/21. Permit issued on 11/16/21. Precon held on 4/26/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0234-22-01	1750 Newport Boulevard	Commercial	Application for New Service submitted on 10/22/21. Plan check fee submitted on 11/15/21. 1st plan check submitted on 10/25/21 and returned on 11/18/21. 2nd plan check submitted on 11/29/21 and returned on 11/30/21. (6/17/22)
C0235-22-01	2000 Kornat Drive	Single Family Home	Application for New Service submitted on 10/29/21. Plan check fee submitted on 10/22/21. 1st plan check submitted on 10/29/21 and returned on 10/29/21. 2nd plan check submitted on 3/29/22 and returned on 4/2/22. 3rd plan check submited on 5/15/22 and returned on 5/16/22. 4th plan check submitted on 5/23/22 and returned on 5/25/22. Permit issued on 6/13/22. (6/17/22)
C0237-22-01	862 18th Street	Commercial	Application for New Service submitted on 10/12/21. Plan check fee submitted on 11/2/21. 1st plan check submitted on 11/5/21 and returned on 11/5/21. 2nd plan check submitted on 11/11/21 and returned on 11/13/21. 3rd plan check submitted on 1/19/22 and returned on 1/23/22. (6/17/22)
C0238-22-01	236 Loyola Road	Single Family Home	Application for New Service submitted on 11/1/21. Plan check fee submitted on 11/2/21. 1st plan check submitted on 11/1/21 and returned on 11/5/21. 2nd plan check submitted on 11/14/21 and returned on 11/14/21. 3rd plan check submitted on 11/16/21 and returned on 11/18/21. Permit issued on 2/28/22. Precon meeting held on 4/5/22. (6/17/22)
C0239-22-01	2263 Rutgers Drive	Single Family Home	Application for New Service and plan check fee submitted on 11/4/21. 1st plan check submitted on 11/4/21 and returned on 11/5/21. 2nd plan check submitted on 12/23/21 and returned to 12/24/21. 3rd plan check submitted on 2/6/22 and returned on 2/8/22. Revised 3rd plan check submitted 3/7/22 and returned on 3/8/22. Permit issued on 5/24/22. (6/17/22)
C0241-22-01	2245 Raleigh Avenue	Single Family Home	Application for New Service and plan check fee submitted on 11/8/21. 1st plan check submitted on 11/4/21 and returned on 11/14/21. 2nd plan check provided on 11/21/21 and returned on 11/23/21. 3rd plan check provided on 2/8/22 and returned on 2/8/22. Permit issued on 3/11/22. Precon held on 3/17/22. Hot-Tap and services installed on 5/31/22, 6/1/22, 6/10/22. Meter upgraded on 6/16/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0244-22-01	355 Princeton Drive	Single Family Home	Application for New Service submitted on 11/18/21. 1st plan check submitted on 11/18/21 and returned on 11/23/21. 2nd plan check submitted on 12/1/21 and returned on 12/2/21. Permit issued on 12/21/21. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0248-22-01	1396 Galway Lane	Single Family Home	Application for New Service submitted on 1/5/22. Plan check fee submitted on 12/23/21. 1st plan check submitted on 12/14/21 and returned on 12/24. 2nd plan check submitted on 1/5/22 and returned on 1/6/22. Permit issued on 2/15/22. Waiting for Contractor to call for inspection. Inspector dispatched to check job progress on 6/17/22. (6/17/22)
C0249-22-01	2293 La Playa Drive, N	Single Family Home	Waiting for Application for New Service. Plan check fee submitted on 12/23/21. Waiting for 1st plan check submittal. (6/17/22)
C0250-22-01	1008 W. Wilson & 2255 Canyon Drive	Two Single Family Home	Application for New Service submitted on 1/14/22 and plan check fee submitted on 1/12/22. 1st plan check submitted on 1/14/22 and returned on 1/15/22. 2nd plan check submitted on 2/7/22 and returned on 2/10/22. 3rd plan check submitted on 3/15/22 and returned on 3/18/22. 4th plan check submitted on 3/23/22 and retuned on 3/26/22. (6/17/22)
C0254-22-01	154 Albert Place	Single Family Home	Application for New Service submitted on 1/28/22 and plan check fee submitted on 2/6/22. 1st plan check submitted on 1/28/22 was voided. 1st plan check revised and returned on 2/15/22. 2nd plan check submitted on 3/4/22 and returned on 3/6/22. 3rd plan check submitted on 3/8/22 and returned on 3/12/22. Permit issued on 4/4/22. Precon held on 4/25/22. Service installed on 4/26/22. Meter installed on 4/28/22. Mainline excavation inspected on 5/3/22. (6/17/22)
C0255-22-01	218 E. 18th Street	Single Family Home	Application for New Service submitted on 1/28/22 and plan check fee submitted on 2/6/22. 1st plan check submitted on 1/28/22 and returned on 2/11/22. Revised 1st plan check submitted on 2/16/22 and returned on 2/17/22. 2nd plan check submitted on 6/12/22 and returned on 6/12/22. (6/17/22)
C0257-22-01	3143 Bermuda Drive	Single Family Home	Application for New Service and plan check fee submitted on 2/9/22. 1st plan check submitted on 2/6/22 and returned on 2/11/22. 2nd plan check submittal on 4/14/22 and returned on 4/15/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0258-22-01	2930 Bristol Street	Commercial (The LAB)	Application for New Service and plan check fee submitted on 1/27/22. 1st plan check submitted on 3/25/22 and returned on 3/26/22. 2nd plan check submitted on 4/12/22 and returned on 4/15/22. 3rd plan check submitted on 5/27/22 and returned on 5/30/22. (6/17/22)
C0259-22-01	530 W. Wilson Street	Apartment Complex	Application for New Service submitted on 2/14/22 and plan check fee submitted on 2/15/22. 1st plan check submitted on 2/16/22 and returned on 2/22/22. 2nd plan check submitted on 3/7/22 and returned on 3/12/22. 3rd plan check submitted on 3/21/22 and returned on 3/26/22. (6/17/22)
C0261-22-01	2040 Paloma Drive	Single Family Home	Application for New Service submitted on 2/20/22. plan check fee submitted on 2/28/22. 1st plan check to be submitted on 2/20/22 and returned on 2/28/22. 2nd plan check submitted on 5/9/22 and returned on 5/10/22. (6/17/22)
C0262-22-01	264 E. 20th Street	Single Family Home	Application for New Service and plan check fee submitted on 3/7/22. 1st plan check submitted on 3/7/22 and returned on 3/8/22. 2nd plan check submitted on 3/12/22 and returned on 3/12/22. (6/17/22)
C0263-22-01	257 Sierks Street	Single Family Home	Application for New Service submitted on 3/17/22 and plan check fee submitted on 3/18/22. 1st plan check submitted on 3/17/22 and returned on 3/26/22. 2nd plan check submitted on 6/9/22 and returned on 6/10/22. (6/17/22)
C0264-22-01	376 16th Place	Single Family Home	Application for New Service submitted on 3/9/22 and plan check fee submitted on 3/23/22. 1st plan check submitted on 3/14/22 and returned on 3/26/22. 2nd plan check submitted on 3/31/22 and returned on 4/2/22. (6/17/22)
C0265-22-01	1424 Shamrock Lane	Single Family Home	Application for New Service submitted on 3/15/22 and plan check fee submitted on 3/16/22. 1st plan check submitted on 3/16/22 and returned on 3/26/22. 2nd plan check submitted on 4/4/22 and returned on 4/7/22. Permit issued on 5/16/22. (6/17/22)
C0266-22-01	3505 Cadillac Avenue, Suite F-7	Commercial	Application for New Service submitted on 12/10/21 and plan check fee submitted on 3/17/22. 1st plan check submitted on 3/24/22 and returned on 3/26/22. 2nd plan check submitted on 5/15/22 and returned on 5/16/22. Permit issued on 5/31/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0267-22-01	2296 Orange Avenue	Single Family Home	Application for New Service submitted on 3/23/22 and plan check fee submitted on 3/22/22. 1st plan check submitted n 4/6/22 and returned on 4/7/22. 2nd plan check submitted on 4/13/22 and returned on 4/15/22. Permit issued on 5/16/22. Precon held on 6/16/22. (6/17/22)
C0268-22-01	1040 Spinnaker Run	Single Family Home	Application for New Service submitted on 4/5/22 and plan check fee submitted on 4/6/22. 1st plan check submitted on 4/2/22 and returned on 4/7/22. 2nd plan check submited on 4/14/22 and returned on 4/15/22. Permit issued on 5/23/22. (6/17/22)
C0269-22-01	1749 Newport Boulevard	Commercial	Application for New Service submitted on 3/9/22 and plan check fee submitted on 4/6/22. 1st plan check submitted on 3/9/22 and returned on 4/9/22. 2nd plan check submitted on 4/19/22 and returned on 4/20/22. Permit issued on 5/13/22. Precon held on 6/6/22. (6/17/22)
C0270-22-01	2113 Thurin Street	Single Family Home	Application for New Service submitted on 3/18/22 and plan check fee submitted on 4/14/22. 1st plan check to be submitted on 3/18/22 and returned on 4/15/22. (6/17/22)
C0271-22-01	2039 Pomona Avenue	Apartment Complex	Application for New Service submitted on 4/6/22 and plan check fee submitted on 4/19/22. 1st plan check submitted on 4/25/22 and returned on 4/29/22. 2nd plan check submitted on 5/18/22 and returned on 5/31/22. 3rd plan check submitted on 6/9/22 and retruned on 6/10/22. (6/17/22)
C0272-22-01	2941 Java Road	Single Family Home	Application for New Service and plan check fee submitted on 4/14/22. 1st plan check submitted on 4/14/22 and returned on 4/15/22. (6/17/22)
C0273-22-01	811 Saint Clair Street	Single Family Home	Application for New Service submitted on 4/26/22 and plan check fee submitted on 4/29/22. 1st plan check submitted on 4/25/22 and returned on 4/29/22. Permit issued on 5/23/22. (6/17/22)
C0274-22-01	120 Albert Place	Apartment Complex	Application for New Service submited on 4/19/22 and plan check fee submitted on 4/29/22. 1st plan check submitted on 4/19/22 and returned on 4/29/22. 2nd plan check submitted on 5/31/22 and returned on 5/31/22. (6/17/22)
C0276-22-01	453 Costa Mesa Street	Single Family Home	Application for New Service submited on 5/12/22 and plan check fee submitted on 5/12/22. 1st plan check submitted on 5/12/22 and returned on 5/20/22. (6/17/22)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0277-22-01	166 Magnolia Street	Single Family Home	Application for New Service submited on 5/16/22 and plan check fee submitted on 5/20/22. 1st plan check submitted on 5/20/22 and returned on 5/21/22. 2nd plan check submitted on 5/27/22 and returned on 5/30/22. (6/17/22)
C0278-22-01	388 Bucknell Road	Single Family Home	Application for New Service submited on 5/21/22 and plan check fee submitted on 5/24/22. Waiting on the 1st plan check submittal. (6/17/22)
C0279-22-01	2519 Andover Place	Single Family Home	Application for New Service submited and plan check fee submitted on 5/31/22. 1st plan check submittal on 6/8/22 and returned on 6/10/22. 2nd plan check submitted on 6/11/22 and returned on 6/11/22. (6/17/22)
C0280-22-01	3303 Hyland Avenue	Tesla Charging Stations	Application for New Service submited on 6/13/22 and no plan check fee as the infrastructure is for the City of Costa Mesa. 1st plan check submittal on 6/13/22. (6/17/22)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT
June 2022

Project Title: OC-44 Replacement and Rehabilitation Evaluation and Cathodic Protection Study

File No.: M 2034

Description: Evaluate potential repair and replacement options.

Status: Request for Bid sent out to contractors in February 2019. Six (6) bids received in March 2019. The Board awarded a contract to lowest bidder E.J. Meyer Company in April 2019. Kick-off meeting held in April 2019. Reviewed submittals. Met with SARWQB in May 2019 and discussed permit requirements with Susan Beeson. In May 2019, met with OCSD and went over requirements for the Special Purpose Discharge Permit (SPDP). Project progress meeting in June 2019 and coordination meeting with MWD in June 2019. Held permit status meeting in July 2019, traffic coordination meeting with Fletcher Jones and project progress meeting in July 2019. Submitted application package to OCSD for SPDP in July 2019. Received SPDP from OCSD in September 2019. Coordination meeting with Fletcher Jones and project progress meeting held in September 2019. Contractor mobilized in September 2019 and started dewatering efforts. Project is substantially complete and line is ready for use. Native planting is complete and the contractor is providing maintenance of planted vegetation. The post-construction walk-through meeting was held in April 2020. Planting establishment and 120-day maintenance period completed in July 2020. The final inspection and walk-though meeting was held in July 2020. Planting establishment and maintenance report submitted to the regulatory agencies in September 2020. Non-native plant herbiciding was performed in November 2020, May 2021, September 2021, and June 2022. (6/15/22)

Project Title: Pipeline Testing Program

File No.: MC 2141

Description: Implement Resolution No. 1525 Replacement of Assets to annually perform non-destructive testing of 1% of the distribution system, and destructive testing of segments that are shown to have less than 70% of original wall thickness by non-destructive testing.

Status: Three (3) miles of AC pipe constructed in 1956 were selected for non-destructive wall thickness measurement in January 2019. The report was received in February 2019. Five (5) AC pipe samples were sent to the testing lab in May 2019, and the wall thickness measurement report was received in June 2019. With more data collected from AC pipe samples, a proposed update of Resolution No. 1442 Replacement of Assets was approved by the Board in October 2019. Staff developed a process for classifying pipeline breaks, and provided a class to the Distribution crews in November 2019. Four (4) AC pipe samples collected during valve replacements were sent for EDS testing in January 2020. Lab reports were received in March 2020 and evaluation of the lab results was received in June 2020. MWDOC performed approximately forty (40) miles of leak detection and found one (1) suspected pipeline leak. Staff performed a follow up leak detection and could not replicate the suspected

leak. Thirteen (13) AC pipe samples collected by staff during valve replacements and break responses were sent for wall thickness measurement, EDS testing, and remaining useful life estimates. Wall thickness lab reports and useful life estimate report were received in February 2021. MWDOC staff performed thirty (30) miles of leak detection for main lines and service laterals in January 2021. A report of their findings found no mainline leaks. Thirty (30) additional miles of leak detection was received in March 2021. No mainline leaks were reported. Fourteen (14) samples of AC Pipe were collected as part of valve and hydrant replacements and were shipped to the lab for wall thickness measurements in January 2022. The report was received in April 2022 and no pipeline replacements were recommended. Leak detection for ninety (90) miles of main line started in April 2022 and is continuing. The report was received in June 2022. AC Pipe and samples collected by the contractor as part of the Wilson Street Pipeline Replacement were shipped to the lab for wall thickness measurements in April 2022. The report is expected in June 2022. (6/20/2022)

Project Title: Chandler & Croddy Wells and Pipeline Project

File No.: M18-113

Description: Design, documentation, permitting, and construction of two (2) new wells located on Chandler Avenue and Croddy Way in the City of Santa Ana and the distribution pipeline connecting the wells to Mesa Water's supply system.

Status: The Chandler and Croddy Wells and Pipeline Project Team includes Design Engineer TetraTech, Construction Manager Butier Engineering, and Community Outreach Consultant Murakawa & Associates. The project has four (4) phases, with a construction bid package for each phase. The status of each phase is below.

Phase 1 Demolition: Demolition of the existing office buildings at the well site properties was awarded to Standard Demolition in July 2020 and was completed in October 2020.

Phase 2 Well Drilling: Well Drilling was awarded to Zim Industries dba Bakersfield Well & Pump in August 2020. Permits for well drilling were received from Orange County Heath Care Agency (OCHCA) in October 2020. Mobilization for drilling at the Croddy Well site started in October 2020. Sound walls were constructed at both sites. Croddy Well drilling is complete. Test pumping produced 4,000 gallons per minute. Water quality depth and well blend sample results indicate good water quality. Chandler Well pilot hole was drilled and samples for the aquifer and the groundwater indicate good water quality to 970 feet. The pilot hole reaming and casing installing was completed in May 2021. Test pumping of Chandler Well produced 4,320 gallons per minute. Water quality depth samples and well blend samples indicate good water quality.

Phase 3 Well Equipping: A contract award to Gateway Pacific was approved at the February 2021 Board meeting. A project team kickoff meeting was held in March 2021. The team has identified the long lead time items, and is in the submittal process for these items. Mobilization occurred in May 2021. Underground work and concrete forming is mostly complete at both sites. This was facilitated by the receipt of the long awaited SCE permit for the Chandler Well site in March 2022. Well pedestals have been completed and approved by OCHCA. Permits from AQMD for the backup generators and ammonia scrubbers have been issued. Long lead time items affected

by the global supply chain continue to arrive. Most of the instrumentation has been received. Chemical tanks were received and set in the chemical facilities in February 2022. Backup diesel generators are expected in March 2022. The well pumps passed witness testing in February 2022. The electrical buildings, well buildings, and site perimeter walls at both sites are being constructed.

Phase 4 Pipeline: The Board awarded a construction contract with Ferreira Construction at the April 2021 Committee meeting. Notice to Proceed with the potable water transmission pipeline construction was issued in June 2021. A preconstruction meeting was held in June 2021. The team identified the long lead time items and is in the submittal process. Encroachment permits were obtained by the contractor from the City of Santa Ana in August 2021. The contractor potholed the pipeline alignment to confirm the location and depths to buried utilities in the area. A minor realignment of the Chandler Pipeline was designed to avoid unexpected natural gas pipeline and services. Materials for the Croddy Storm Drain arrived in December 2021, and construction of the Croddy Storm Drain was completed in March 2022. Poor soil conditions were encountered during the Croddy Storm Drain construction, and the project team is evaluating alternate shoring and dewatering methods for the Croddy Pipeline. Materials for the 30” and 16” transmission lines arrived in January and February 2022. Construction of the 30” transmission pipeline on MacArthur Boulevard began in March 2022, and is progressing from Croddy Way to the tie in to the distribution system at MacArthur and Hyland. (6/20/2022).

Project Title: SCADA Control Room and Wet Labs Upgrade Project

File No.: M20-105

Description: Relocation of the SCADA Control Room and laboratory, including the addition of an education center.

Status: In November 2019, the Board directed staff to proceed with Design Concept #2 of the Mesa Water Reliability Facility (MWRF) Outreach Center. Mesa Water obtained a cost proposal from IBI Group. The Scope of Work also incorporates the design of two MWRF spare parts storage buildings (located at the MWRF) and wells spare parts storage building (located at Well No. 7) as part of the design services. The Board approved this item at the April 2020 Board meeting. The pre-design kick-off meeting was held in April 2020. The conceptual design was reviewed in June 2020 and preliminary cost estimate discussed in July 2020. At the August 2020 Committee meeting, the Mesa Water Education Center building concept was approved by the Board. Additionally, a contract was awarded to Mad Systems for the exhibit design. In September 2020, a final design kick-off meeting was held with the architect and exhibit design teams. In October 2020, the Mesa Water team toured the Albert Robles Center for Water Recycling and Environmental Learning with Mad Systems. In October 2020, the design team held a site visit at the MWRF to discuss landscaping and courtyard concepts. A preliminary landscaping concept was received in November 2020. The 50% design submittal was received in December 2020. The comments to the submittal were discussed during progress meetings in January 2021 and February 2021. 50% Construction Documents were submitted in March 2021. The project team held detailed

design meetings regarding storage buildings, the IT Server Room, and transitional plans to keep the MWRF in service during construction. In June 2021, staff reviewed and selected finishes for the Education Center and Administration Building. Transitional plans to keep the MWRF in service were finalized and the delivery and setup of the temporary facilities began in October 2021. Mesa Water received proposals for construction management services for the project in early June 2021. A construction manager was selected in June 2021 and they have begun reviewing construction documents. The draft 100% Construction Documents were submitted in July 2021. Staff reviewed the submittal and provided comments. The revised Construction Documents were submitted in September 2021. The Request for Bid for construction was sent out in September 2021 and bids were received in October 2021. Three (3) bids were received from qualified contractors, and the Board awarded a contract to Hamel Contracting, Inc. at the October 2021 Committee meeting. The kick-off meeting was held in November 2021. The contractor has completed the demolition, sub-grade preparation, plumbing rough-ins, electrical duct bank installation, and the foundation of the Education Center Building. The contractor is currently working on Education Center Building electrical floor boxes, the Administration Building interior floors and walls, exterior CMU in-fill, and Southwest Storage Building slab on grade and CMU walls. (6/15/22)

Project Title: Wilson Street Pipeline Replacement Project

File No.: M21-220A

Description: Design, documentation, and permitting for replacement of pipeline in Wilson Street between Newport Boulevard and Harbor Boulevard.

Status: Scope of Work and Request for Quote for the design, documentation, and permitting for the Wilson Street Pipeline Replacement Project was prepared and sent to the design consultants in July 2020. Received five (5) proposals in August 2020. Selected Water Systems Consultants, Inc. to prepare the design. The kick-off meeting was held in August 2020. Technical Memorandum No. 1, providing alternative pipeline layouts, was submitted for review in October 2020. The 50% Design package was submitted for review in December 2020. The comments to the submittal were analyzed and discussed in February 2021. The consultant completed the 90% Design Submittal in March 2021. The Request for Bid was sent out to contractors in March 2021. Eight (8) bids were received in April 2021. The Board awarded a construction contract to J.A. Salazar at the May 2021 Board meeting. The contract with J.A. Salazer was executed and the pre-construction meeting for the project was held in June 2021. The pre-construction meeting with the City of Costa Mesa was held in August 2021 and the contractor started potholing in August 2021. Following review of the potholing results, the installation of the mainline started in October 2021. The contractor has completed the installation of the 12-inch PVC line in Wilson Street from Harbor Boulevard to Newport Boulevard, has constructed all of the tie-ins to the distribution system, and has completed all service line connections to the new 12-inch line. Ben’s Asphalt, Inc.

addressed City of Costa Mesa additional requirements in June 2022. The project is now complete. (6/15/22)

Project Title: 1951 Cohort Pipeline Replacement Project

File No.: M21-220A

Description: Design, documentation, and permitting for replacement of 3.5 miles of pipeline in Hamilton Street, Pomona Avenue, Wallace Avenue, Anaheim Avenue, and Maple Avenue.

Status: Scope of Work and Request for Proposal for providing Construction Management (CM) Services for the Wilson Street and 1951 Cohort Pipeline Replacement Projects sent out to On-Call Consultants in November 2020. Five (5) proposals received in December 2020. CDM Smith was selected to provide the CM Services.

Scope of Work and Request for Proposal for providing design services for the 1951 Cohort Pipeline Replacement sent out to on-call consultants in December 2020. Two (2) proposals were received in December 2020. Tetra Tech was selected to prepare the design. The project kick-off meeting was held in February 2021. The Consultant delivered Technical Memorandum No. 1 – Alignment Options and Recommendations and the Preliminary Design Report in July 2021. Mesa Water staff has reviewed Technical Memorandum No. 1 and the Preliminary Design Report. The project's 50% Design Submittal was submitted in October 2021 and reviewed by Mesa Water staff. The project team is currently working to complete the 90% Design Submittal. The construction of the 1951 Cohort Pipeline Replacement Project has been moved to the years following the CIPR Program. (6/15/22)

Project Title: Mainline Valve Replacement Project Phases I through IV

File No.: M21-220C

Description: Design, documentation, and permitting for replacement of mainline valves within the distribution system per the Mainline Valve Spacing Policy.

Status: At the October 2020 Board meeting, the Mainline Valve Spacing Policy was approved by the Board. A Scope of Work and Request for Quote for the design, documentation, and permitting for the Mainline Valve Replacement Project was prepared and was sent to on-call design consultants in October 2020. Four (4) proposals were received in November 2020. Tetra Tech was selected to prepare the final design. The project kick-off meeting was held in January 2021. The Consultant developed the project's permit plan. The 50% Design Submittal was delivered for review in May 2021. Mesa Water staff has completed the testing of shutdowns required for the Phases 1 and 2 valve replacement in September 2021. The Consultant submitted the 90% Design Submittal for Phase 1 in October 2021. Staff reviewed the Phase 1 90% and 100% Design Submittals. A Request for Bid for Phase 1 was sent out in January 2022 and a pre-bid meeting was held in January 2022. Seven (7) bids were received from qualified contractors in February 2022. Mesa Water staff reviewed the bids and checked references of the low bid contractor. At the February 2022 Committee meeting, the Board awarded a contract to Big Ben Engineering. The pre-construction

meeting for Phase 1 of the project was held in April 2022. The contractor is currently schedule to begin replacing mainline valves in June 2022. For the Phase 2 design, the 100% Design Submittal was submitted in May 2022. The Request for Bid for Phase 2 will be held until construction bids have been received for the Reservoirs 1 and 2 Pump Station Upgrades Project. (6/15/22)

Project Title: Reservoirs 1 and 2 Pump Station Upgrades Project

File No.: M21-210B2

Description: The Reservoir Upgrades Project has several components to increase the efficiency and reliability of Reservoirs 1 and 2: Chemical storage and feed systems (sodium hypochlorite and aqueous ammonia) to help reduce nitrification issues in the distribution system; Pump replacement and conversion of drivers from gas engines to electrical motors; Upgrades to reservoir electrical service through SCE; Installation of diesel generator systems to power the reservoirs in the event of an emergency; Miscellaneous system rehabilitation and upgrades including electrical gear replacement, pipeline rehabilitation, pipeline modifications, and instrument replacement based on the results of site visits and related analyses; and Slurry Dewatering Pit upgrades located at the Reservoir 1 site.

Status: Following the approval of the recommendations of the Water, Power, and Supply Chain Reliability Assessment, Mesa Water developed a design Scope of Work for the Reservoirs 1 and 2 Upgrades Project. A proposal was solicited from a CIPR on-call design consultant and the project's Preliminary and Final Design kicked off in May 2021. A site visit for the project was held with the consultant in May 2021. The project team performed a 3-D scan of Reservoirs 1 and 2 in June 2021. The consultant delivered a draft version of Technical Memorandum No.1 – Reservoir 1 Site Master Plan and the draft Permit Plan in July 2021. Following Mesa Water's review of TM1 and the Permit Plan, the consultant began work on the Preliminary Design Report. The Preliminary Design Report was delivered in November 2021 and the Preliminary Design Report Workshop was held in September 2021. The design team submitted the 60% Design Submittal in December 2021. Staff reviewed and provided comments on the 60% Design Submittal. The 90% Design Submittal was received in March 2022. Staff has reviewed the submittal and provided comments to the design team. Staff received pre-qualification packages from five (5) contractors in May 2022. Staff has developed a list of five qualified contracts that will receive the bidding documents. The design team has received bids for long lead-time equipment (Reservoir 1 Vertical Turbine Pumps, Electrical Switchgear, and Back-up Generator). Bids for the long lead-time equipment are currently under review. Additionally the 100% submittal was received In May 2022 and is currently under review by staff. (6/21/22)

Project Title: Excavation Slurry Dewatering Pit Project

File No.: M21-250D

Description: Design, documentation, and permitting for a dewatering process that will be constructed in Mesa Water's Operations Yard to provide dewatering for the hydrovac excavation slurry.

Status: A Scope of Work and Request for Quote for the design, documentation, and permitting for the Excavation Slurry Dewatering Pit Project was prepared and sent to on-call design consultants in October 2020. Following selection of an on-call design consultant, the kick-off meeting and site visit were held in November 2020. The draft memo was submitted for review in February 2021 and was reviewed by Mesa Water staff. Mesa Water staff has provided direction and the design of the Dewatering Pit is included in the Scope of Work for the Reservoirs 1 and 2 Pump Station Upgrades Project. The Final Technical Memorandum was submitted for review in June 2021. The Dewatering Pit will be designed and constructed as part of the Reservoirs 1 and 2 Pump Station Upgrades Project. (6/15/22)

Project Title: Vault Rehabilitation and Abandonment

File No.: M21-220B

Description: Design and construction of abandonment of obsolete facilities and rehabilitation of one arterial valve on OC-44.

Status: NV-5 was selected as the design consultant. Project kickoff was held in September 2020. Site visits for all of the vaults were conducted in October 2020. A preliminary design report was received in November 2020 and reviewed by staff. The current project includes abandoning three (3) vaults on OC-44 and three (3) unused pressure relief stations, and replacing the Bonita Creek Park Arterial Valve on OC-44. Rehabilitation of the interties is on hold pending decisions on the need for the three interties, and will be completed in a future capital program. A CEQA evaluation of the project recommended filing a Categorical Exemption from CEQA. The Categorical Exemption was received in July 2021 and filed with the County of Orange in September 2021. 90% Plans and Specifications were received in July 2021 and were reviewed by staff. The City of Huntington Beach asked that all work requiring an OC-44 shutdown be completed prior to December 2021 due to a planned outage of another import source. The project was put out to bid in August 2021. Four (4) bids were received in September 2021. The Board awarded a construction contract to T.E. Roberts, Inc. at the September 2021 Committee meeting. Notice to Proceed to the selected contractor was provided in October 2021. Contractor mobilized in November 2021 and completed the Phase 1 vaults which required a complete shutdown of the OC-44 pipeline. Phase 1 construction was completed before the end of November 2020, and the 8.1 mile OC-44 pipeline was successfully disinfected and returned to service in December 2020. Phases 2 and 3 of the project were delayed due to an FAA clearance needed for the site at John Wayne Airport. The FAA clearance letter was received in April 2022. The contractor mobilized for Phases 2 and 3 in May 2022, and completed the Baker Pressure Relief Station vault abandonment and Newport Hills Vault #2 abandonment, and replaced the vault lid at the tie in with City of Santa Ana at Sunflower. Abandonment of the Airport Loop Pressure Relief Station was completed on June 3, 2022. Construction is substantially complete. Punchlist items are being addressed in June 2022, and record drawings are being prepared. (6/20/2022)

Project Title: Operational IT Infrastructure Security Project

File No.: M21-250F

Description: The project will align the Operational IT infrastructure and management model with Mesa Water enterprise IT system standards and CISA recommendations.

Status: The project kick-off meeting was held in May 2021. The new servers, UPS, and isolated network have been installed and configured. The project team has procured the required switches and equipment. They are currently configuring accounts and groups, setting up fiber connections from the servers to the switches, and finalizing Microsoft Select Plus. (6/21/22)

Water Quality Call Report
May 2022

Date: 5/9/2022
Source: Phone/Visit
Address: 2241 Wallace Avenue
Description: Customer reported algae growth in her carbon filter water pitcher. She has not seen algae growth before.

Outcome: Customer was not home during the site visit. Staff checked the water at the front hose bib. Water was clear and had chlorine residual. Customer was informed that the water was clear.

Date: 5/11/2022
Source: Phone/Visit
Address: 3198 Airway Loop # C
Description: Customer called to report discolored water coming from all internal fixtures.

Outcome: Crews were working at the airport the evening prior and there may have been sediment stirred up in the water lines. Nearby hydrant and customer's line were flushed until clear.

Date: 5/23/2022
Source: Phone/Visit
Address: 3221 Oregon
Description: Customer called to report a sulfur odor coming from one bathroom sink.

Outcome: Water from the front hose bib and bathroom sink were checked and had no color or odor, to which the customer agreed. The water samples were also checked for chlorine residual, pH, and temperature and were within normal range. Customer may have internal plumbing issues and will investigate further.

Water Operations Status Report
July 1, 2021 - May 31, 2022

Operations Department Status Report	Wk Unit	Plan Days	Act Days	Plan Qty	Act Qty	Plan Cost	Actual Cost
01 - HYDRANTS							
WD-0101 - HYDRANT MAINTENANCE	HYDRANTS	162	196	3079	3845	$65,179	$82,535
WD-0102 - HYDRANT PAINTING	HYDRANTS	12	23	385	341	$5,450	$8,438
WD-0103 - HYDRANT REPAIR	HYDRANTS	37	44	55	84	$13,704	$20,734
Program 01 TOTAL		210	263			$84,333	$111,707
02 - VALVES							
WD-0201 - DISTRIBUTION VALVE MAINTENANCE	VALVES	110	130	2189	2811	$65,656	$54,563
WD-0202 - NIGHT VALVE MAINTENANCE	VALVES	6	11	165	158	$5,507	$5,682
Program 02 TOTAL		116	141			$71,163	$60,244
03 - METERS							
CS-0301 - NEW METER INSTALLATION	METERS	15	7	86	49	$68,750	$19,590
CS-0302 - RAISE REPLACE METER BOX	BOXES	7	2	72	12	$3,208	$937
CS-0303 - METER LEAK INVESTIGATION/REPAIR	INV/REP	12	9	184	96	$4,957	$3,291
CS-0305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	33	60	83	146	$20,372	$23,380
CS-0306 - LARGE METER TEST/REPAIR - C	TESTS	23	13	107	115	$9,456	$5,182
WD-0305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	24	2	47	3	$15,230	$676
Program 03 TOTAL		115	93			$121,973	$53,057
04 - MAIN LINES							
WD-0401 - MAIN LINE REPAIR	REPAIRS	91	90	18	12	$55,514	$51,228
WD-0402 - AIR VAC MAINTENANCE/REPAIR	REPAIRS	25	19	145	210	$5,143	$9,622
Program 04 TOTAL		116	109			$60,657	$60,850
05 - SERVICE LINES							
WD-0501 - SERVICE LINE REPAIR	REPAIRS	53	59	18	17	$26,943	$31,301
Program 05 TOTAL		53	59			$26,943	$31,301
06 - CAPITAL							
CAP FH - CAPITAL HYDRANT UPGRADE	HYDRANTS	152	219	23	31	$149,221	$178,716
CAP MV - CAPITAL MAINLINE VALVE REPLACE	VALVES	129	141	23	20	$104,223	$88,882
CAP SL - CAPITAL SERVICE LINE REPLACE	SERVICES	34	9	9	1	$22,385	$4,143
CAP SS - CAPITAL SAMPLE STATION REPLACE	STATIONS	5	2	5	6	$924	$924
CAP WLS- CAPITAL WATER LOSS STUDY	METERS	25	34	253	260	$34,404	$33,893
CAP LM - CAPITAL LARGE METERS	METERS	8	0	46	1	$18,169	$744
CAP SM - CAPITAL SMALL METERS	METERS	17	11	230	105	$22,053	$22,215
CIPR- ENGINEERING WORK	HOURS	430	188	3530	1695	$177,044	$82,913
Program 06 TOTAL		800	605			$528,423	$412,430
TOTAL						$893,491	$729,590

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
COMMERCE TRUCK AND EQUIPMENT SALES, LLC	000006427	05/24/22	051222A	M22-002A FORD F-750	$105,807.24
	1				**$105,807.24**
ELIZABETH COWLES	000006483	05/26/22	5/11/2022	POOL COVER REBATE PROGRAM	$50.00
	1				**$50.00**
KATE LONG	000006368	05/12/22	5/10/2022	KATE LONG - POOL COVER REBATE	$50.00
	1				**$50.00**
Total	**3**				**$105,907.24**
CAPITAL					
BUTIER CONSULTING ENGINEERS	000006325	05/12/22	C006MWD	M21-250A1 SCADA ROOM UPGRADE	$40,047.50
	000006430	05/26/22	C007MWD	M21-250A1 SCADA ROOM UPGRADE	$37,147.50
		05/26/22	B021MWD	M18-100 CHANDLER & CRODDY	$105,486.35
	2				**$182,681.35**
CAROLLO ENGINEERS	000006438	05/26/22	FB23162	E400-0012 GIS HYDRAULIC MODEL	$5,672.90
	1				**$5,672.90**
CDM SMITH, INC	000006481	05/26/22	90150895	M21-220C MAINLINE VALVE REPLC	$6,092.50
		05/26/22	90150892	M21-220A WILSON & 1951 COHORT	$16,565.88
		05/26/22	90150894	M21-270 STAFF AUGMENTATION	$1,481.70
	1				**$24,140.08**
DITCH WITCH SOUTHERN CALIFORNIA	000006384	05/19/22	664145	DITCH WITCH PARTS	$1,971.10
	1				**$1,971.10**
FERREIRA COASTAL CONSTRUCTION CO.	000006374	05/19/22	05	M18-100 CHANDLER & CRODDY	$67,506.94
		05/19/22	04	M18-100 CHANDLER & CRODDY	$567,348.79
	1				**$634,855.73**
GATEWAY PACIFIC CONTRACTORS, INC.	000006375	05/19/22	10	M18-100 CHANDLER & CRODDY	$774,839.00
	1				**$774,839.00**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
MURAKAWA COMMUNICATIONS, INC.	000006397	05/19/22	MESA WATER-23	M20-109 PUBLIC OUTREACH	$4,988.58
	1				**$4,988.58**
NV5, INC.	000006293	05/05/22	265990	M21-220B VAULT REHAB ABANDMNT	$1,020.00
	1				**$1,020.00**
PAULUS ENGINEERING INC	000006401	05/19/22	21391	M22-003 ON-CALL REPAIRS	$2,028.27
	1				**$2,028.27**
SUNBELT RENTALS INC.	000006346	05/12/22	124191709-0001	TANK RENTAL	$72.03
	1				**$72.03**
TETRA TECH, INC	000006376	05/19/22	51847261	M21-220C MAINLINE VALVE REPLC	$52,882.00
		05/19/22	51872447	M21-220C MAINLINE VALVE REPLC	$19,543.00
		05/19/22	51885624	M21-220C MAINLINE VALVE REPLC	$37,297.00
		05/19/22	51885625	M21-220C MAINLINE VALVE REPLC	$1,040.00
	000006487	05/26/22	51894713	M21-220A COHORT PIPELINE	$4,420.00
		05/26/22	51894104	M21-220D PLASTIC SERVICE LINE	$3,480.00
	2				**$118,662.00**
Total CAPITAL	**13**				**$1,750,931.04**
CHECK SIGNATURE EXEMPT					
SOUTHERN CALIFORNIA EDISON CO	000006373	05/19/22	700461094089APR22	ELECTRICITY - APRIL 2022	$140,023.96
	000006463	05/26/22	700461094089APR22-1	ELECTRICITY - APRIL 2022	$12,723.10
	2				**$152,747.06**
Total CHECK SIGNATURE EXEMPT	**2**				**$152,747.06**
DEPARTMENT EXPENSE					
4 IMPRINT	000006333	05/12/22	9882794	MWD PROMO ITEMS	$507.80
	1				**$507.80**
ACWA JOINT POWERS INSURANCE AUTHORITY	000006311	05/05/22	042822	WORKERCOMP JAN-MAR 2022	$28,186.70
	000006433	05/26/22	JUN22EAP	JUNE 2022 EAP	$138.04
	2				**$28,324.74**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
CA DEPT OF JUSTICE	000006381	05/19/22	578762	PRE-EMPLOYMENT FINGERPRINTS	$64.00
	1				**$64.00**
CALPERS BENEFIT PAYMENTS	CASH	05/06/22	16776789	MAY PA HEALTH PREMIUM	$6,778.93
		05/06/22	41322	CHECK DATE 41322	$38,893.85
		05/12/22	42722	CHECK DATE 42722	$39,135.69
		05/06/22	16776776	MAY HEALTH PREMIUM	$55,542.42
	1				**$140,350.89**
COLONIAL LIFE & ACCIDENT INS	000006419	05/19/22	8892333050331 5	INSURANCE PPE 05/03/22	$184.49
		05/19/22	8892333051752 9	INSURANCE PPE 05/17/22	$184.49
	1				**$368.98**
EMPLOYMENT DEVELOPMENT DEPT	000006443	05/26/22	L0521665296	UNEMPLOYMENT TAX - 3/31/22	$1,350.00
	1				**$1,350.00**
G&W TOWING	000006445	05/26/22	456500	TOWING #112	$91.00
	1				**$91.00**
HOOVER PRINTING	000006332	05/12/22	98076	DESIGN WORK	$250.00
	000006392	05/19/22	98153	PRINTING - NEWSLETTER	$2,494.41
	2				**$2,744.41**
ORANGE COUNTY EMPLOYEES ASSN	000006314	05/05/22	OCEA PPE 04/27/22	MEMBERSHIP DUES 04/27/22	$295.20
	000006399	05/19/22	OCEA PPE 05/11/22	MEMBERSHIP DUES 05/11/22	$295.20
	2				**$590.40**
TASC	000006466	05/26/22	IN2382039	FSA ADMIN FEES - APRIL 2022	$143.28
	1				**$143.28**
URBAN WATER INSTITUTE	000006489	05/26/22	041222	Req: 4039	$2,500.00
	1				**$2,500.00**
VISION SERVICE PLAN - (CA)	000006470	05/26/22	815199513	JUN 2022 VISION INSURANCE	$1,259.04
	1				**$1,259.04**
VISTA DEL VERDE LANDSCAPE	000006352	05/12/22	36445	LANDSCAPE MAINT FEES - MAY	$2,743.79
	000006409	05/19/22	36395	M21-250A1 MWRF IRRIGATION	$376.00

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
VISTA DEL VERDE LANDSCAPE	000006409	05/19/22	36389	M21-250A1 MWRF IRRIGATION	$785.56
	000006469	05/26/22	36506	LANDSCAPE REPAIRS	$423.01
		05/26/22	36505	LANDSCAPE REPAIRS	$262.10
	3				**$4,590.46**
Total DEPARTMENT EXPENSE	**18**				**$182,885.00**
GENERAL AND ADMINISTRATIVE					
ACCO ENGINEERED SYSTEMS, INC.	000006308	05/05/22	20224782	ANNUAL MAINTENANCE	$18,015.00
	1				**$18,015.00**
ALEJANDRO GARDUNO-MARTINEZ	000006357	05/12/22	CHEQ00099007989	02814200 Cheque Deposits 02814	$65.36
	1				**$65.36**
APPLIED BEST PRACTICES, LLC/FIELDMAN ROLAPP	000006434	05/26/22	27103	PROFESSIONAL SERVICES	$2,000.00
	1				**$2,000.00**
AQUATIC INFORMATICS INC.	000006348	05/12/22	9469	TOKAY BACKFLOW PM SOFTWARE	$790.00
	1				**$790.00**
ATKINSON, ANDELSON, LOYA, RUUD & ROMO	000006271	05/05/22	648054	LEGAL SERVICES - MARCH	$9,864.06
	1				**$9,864.06**
BEST BEST & KRIEGER	000006437	05/26/22	934679	PROFESSIONAL SERVICES	$1,715.00
	1				**$1,715.00**
BLUECOSMO SATELLITE COMMUNICATIONS	000006312	05/05/22	BU01442658	SATELLITE PHONE SERVICE	$116.97
	1				**$116.97**
BOLLAND AND ASSOCIATES	000006326	05/12/22	220305	REGULATORY CONSULTING FEE	$2,250.00
	1				**$2,250.00**
BRENDA DEELEY PR LLC	000006327	05/12/22	1377	CONSULTING FEE APRIL 2022	$14,750.00
	1				**$14,750.00**
BRET L MYERS	000006476	05/26/22	CHEQ00099007996	08713412 Cheque Deposits 08713	$106.95
	1				**$106.95**
BRIDGETTE DIEHL	000006361	05/12/22	CHEQ00099007993	07707400 Overpaymet	$4.00
	1				**$4.00**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
BROWN & CALDWELL	000006377	05/19/22	12427628	M21-210B2 RES 1,2 UPGRADES	$186,092.63
		05/19/22	12439127	M21-210B2 RES 1, 2 UPGRADES	$125,353.29
	000006429	05/26/22	12442339	M21-210B2 RES 1, 2 UPGRADES	$69,429.00
	2				**$380,874.92**
BSI AMERICA PROFESSIONAL SERVICES INC.	000006275	05/05/22	73563	EHS SUPPORT SERVICES	$14,108.00
	1				**$14,108.00**
BYRON ZIEGLER	000006474	05/26/22	CHEQ00099007994	30001567 Cheque Deposits 30001	$16.27
	1				**$16.27**
CALIFORNIA ADVOCATES INC.	000006380	05/19/22	052235	PROFESSIONAL SERVICES	$7,700.00
	1				**$7,700.00**
CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION	000006482	05/26/22	20-0338	WATER MURAL PROJECT	$500.00
	1				**$500.00**
CANON FINANCIAL SERVICES, INC.	000006382	05/19/22	28420753	PRINTER EQUIPMENT LEASE	$2,000.93
	1				**$2,000.93**
CCS ORANGE COUNTY JANITORIAL INC.	000006276	05/05/22	80817588	JANITORIAL SUPPLIES	$517.26
	000006329	05/12/22	552622	JANITORIAL SERVICES	$3,933.67
	2				**$4,450.93**
CNA SURETY	000006328	05/12/22	15533804-22-23	CA NOTARY E&O INSURANCE	$300.00
	1				**$300.00**
COGSDALE SOFTWARE CORPORATION	000006439	05/26/22	CT0005879	PROFESSIONAL SERVICES	$1,575.00
	1				**$1,575.00**
COMPONETICS	000006440	05/26/22	1790	FRAME GRATE	$738.09
		05/26/22	1787	INSTALL BRACKETS	$2,575.00
	1				**$3,313.09**
CREATIVE MAD SYSTEMS, INC. DBA MAD SYSTEMS	000006432	05/26/22	4188	M21-250A2 EXHIBITRY DESIGN	$118,356.25
		05/26/22	4193	M21-250A2 EXHIBITRY DESIGN	$582,500.00
	1				**$700,856.25**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
CRYSTAL HUANG	000006477	05/26/22	CHEQ00099007997	30002268 Overpayment	$71.50
	1				**$71.50**
DAVID BRENT ADAMS	000006359	05/12/22	CHEQ00099007991	06507300 Cheque Deposits 06507	$169.75
	1				**$169.75**
ECAMSECURE	000006442	05/26/22	819712	M21-250A1 MONTHLY SERVICE	$289.52
		05/26/22	819711	M21-250A1 MONTHLY SERVICE	$285.54
	1				**$575.06**
ELAN ONE	CASH	05/02/22	5222	APRIL CHGS MAY PAY	$20,338.02
	1				**$20,338.02**
EMPLOYEE RELATIONS INC	000006385	05/19/22	92779	PRE-EMPLOYMENT VEHICLE REPORT	$27.41
	1				**$27.41**
EMPOWER	CASH	05/02/22	42722 401A	CHECK DATE 42722 401A	$1,028.96
		05/13/22	51122	CHECK DATE 51122 457	$19,720.83
		05/13/22	51122 401A	CHECK DATE 51122 401A	$1,028.96
		05/13/22	51122 MATCH	CHECK DATE 51122 MATCH	$8,404.47
		05/02/22	04272022	CHECK DATE 42722 457	$22,473.04
		05/02/22	42722 MATCH	CHECK DATE 42722 MATCH	$7,056.36
	1				**$59,712.62**
ENERGY ENVIRONMENTAL SOLUTIONS, INC.	000006279	05/05/22	EES-2022-MWD056	ICE ENGINE TEST	$4,800.00
	1				**$4,800.00**
ENTERPRISE FM TRUST	000006444	05/26/22	FBN4470271	AUTO LEASES - MAY 2022	$1,025.68
	1				**$1,025.68**
FIELDMAN, ROLAPP & ASSOCIATES	000006422	05/19/22	27205	FINANCIAL CONSULTING SERVICES	$130.00
		05/19/22	27206	FINANCIAL CONSULTING SERVICES	$548.50
	1				**$678.50**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
FM THOMAS AIR CONDITIONING INC	000006364	05/12/22	43787	QUARTERLY MAINTENANCE	$345.00
		05/12/22	43539	QUARTERLY MAINTENANCE	$870.00
		05/12/22	43720	REPLACE VFD UNIT 1	$30,699.00
		05/12/22	43788	QUARTERLY MAINTENANCE	$870.00
		05/12/22	43785	VFD REPAIR - MWRF	$2,781.00
	1				**$35,565.00**
FOGCO SYSTEMS INC	000006387	05/19/22	0065568-IN	FOGGER PART	$2,550.91
	1				**$2,550.91**
FRONTIER COMMUNICATIONS	000006388	05/19/22	17945APR22	DDS LINE 04/13-05/12	$109.96
	1				**$109.96**
FULL CIRCLE RECYCLING	000006330	05/12/22	27651	RECYCLING SERVICES	$133.50
	1				**$133.50**
GEIGER	000006283	05/05/22	4736034	MWD PROMO ITEMS	$2,540.89
	000006389	05/19/22	4727905	MWD PROMO ITEMS	$1,019.84
	000006446	05/26/22	4752650	MWD PROMO ITEMS	$2,793.06
	3				**$6,353.79**
HDR ENGINEERING INC	000006424	05/19/22	1200431807	M22-103 PIPELINE INTEGRITY	$5,905.00
	1				**$5,905.00**
IBI GROUP	000006431	05/26/22	10014193	M21-250A1 MWRF OUTREACH CENTER	$20,776.74
		05/26/22	10014065	M21-250A1 MWRF OUTREACH CENTER	$48,157.74
	1				**$68,934.48**
INFOSEND INC	000006286	05/05/22	211285	CUSTOMER BILLING SERVICE	$1,453.12
	000006367	05/12/22	209569	RECRUITMENT LETTER	$1,009.20
		05/12/22	209553	RECRUITMENT LETTER	$695.61
	000006394	05/19/22	212180	CUSTOMER BILLING SERVICE	$2,468.29
		05/19/22	212477	PROGRAMMING FEE	$150.00
	000006448	05/26/22	211237	POSTCARDS WATER STUDY	$7,770.34
		05/26/22	212520	CUSTOMER BILLING SERVICE	$3,501.21

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	4				**$17,047.77**
JENNY FLETCHER	000006358	05/12/22	CHEQ00099007990	05204601 Cheque Deposits 05204	$57.43
	1				**$57.43**
JOHN ROBINSON CONSULTING, INC.	000006334	05/12/22	MW201901-37	CONSULTING SERVICES	$12,600.00
	1				**$12,600.00**
JUSTIN L. SAEGUSA	000006335	05/12/22	0379	DESIGN MAILER SERVICES	$300.00
	1				**$300.00**
KLEEN KRAFT SERVICES	000006320	05/05/22	1103185	UNIFORMS, MATS, TOWELS	$222.54
	000006336	05/12/22	1103841	UNIFORMS, MATS, TOWELS	$324.94
	000006395	05/19/22	1104499	UNIFORMS, MATS, TOWELS	$233.62
	000006449	05/26/22	1105159	UNIFORMS, MATS, TOWELS	$309.68
	4				**$1,090.78**
LA CONSULTING INC	000006451	05/26/22	0015373	CMMS SUPPORT SERVICES	$254.00
		05/26/22	0015363	M21-104 WATER SYS ENHANCEMENT	$7,514.80
		05/26/22	0015369	PERFORMANCE AUDIT FY21	$21,299.36
	1				**$29,068.16**
LANCE, SOLL, & LUNGHARD LLP	000006452	05/26/22	50422	PROFESSIONAL SERVICES	$12,000.00
	1				**$12,000.00**
LIEBERT CASSIDY WHITMORE	000006288	05/05/22	215982	PROFESSIONAL SERVICES - MAR	$516.00
		05/05/22	215981	PROFESSIONAL SERVICES - MAR	$1,272.40
	1				**$1,788.40**
LOOMIS ARMORED US, LLC DBA LOOMIS	000006396	05/19/22	13015814	MONTHLY ARMORED CAR SERVICE	$114.29
	1				**$114.29**
MASHCOLE PROPERTY MGMT	000006360	05/12/22	CHEQ00099007992	06116400 Overpayment	$245.14
	1				**$245.14**
METROPOLITAN WATER DISTRICT OF SO CAL	000006475	05/26/22	CHEQ00099007995	20078500 Cheque Deposits 20078	$1,247.00

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	1				**$1,247.00**
MOULTON NIGUEL WATER DISTRICT	000006426	05/19/22	4859424	SPONSORSHIP	$1,748.49
	1				**$1,748.49**
MOUSE GRAPHICS	000006454	05/26/22	448077	DESIGN PRINTS	$442.85
	1				**$442.85**
MYERS & SONS HI-WAY SAFETY INC	000006455	05/26/22	129373	SAFETY EQUIPMENT	$707.20
	1				**$707.20**
NEW PIG	000006456	05/26/22	23646129-00	FIBERGLASS TRAY	$873.05
	1				**$873.05**
NEXTDAY DELIVERY SERVICE, LLC	000006486	05/26/22	800963	MAIL DELIVERY SVCS	$167.40
	1				**$167.40**
NPG, INC.	000006478	05/26/22	CHEQ00099007998	20070900 Overpayment	$219.84
	1				**$219.84**
NTH GENERATION COMPUTING INC.	000006292	05/05/22	40400TM2	AUDIT PLAN SUPPORT	$2,925.00
	000006458	05/26/22	40400TM3	AUDIT PLAN SUPPORT	$1,800.00
		05/26/22	40303TM	AUDIT PLAN SUPPORT	$787.50
	2				**$5,512.50**
OCMH, INC.	000006400	05/19/22	1546	M20-107 GARAGE IMPROVEMENTS	$16,548.39
	1				**$16,548.39**
O'NEIL STORAGE #0481	000006340	05/12/22	2204050	FILE STORAGE - APRIL 2022	$1,207.47
	1				**$1,207.47**
ORANGE COUNTY PRINTING	000006321	05/05/22	033071028	DESIGN SERVICES - DOOR HANGER	$1,858.69
	1				**$1,858.69**
ORANGE COUNTY TREASURER - TAX COLLECTOR	000006338	05/12/22	SC13429	QUARTERLY 4/1-6/30 OCSD ALLOC	$312.00
	1				**$312.00**
PETE'S ROAD SERVICE	000006341	05/12/22	582211-00	TIRE REPAIR	$166.65
	1				**$166.65**
PFT ALEXANDER INC.	000006294	05/05/22	108106	BATTERY PACK	$114.93
	1				**$114.93**
PODS ENTERPRISES, LLC.	000006402	05/19/22	PODS000805568		$418.08

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	1				**$418.08**
QUADIENT FINANCE USA, INC	000006468	05/26/22	3751APR22	POSTAGE- APRIL 2022	$500.00
	1				**$500.00**
RAYNE WATER SYSTEMS	000006342	05/12/22	30486MAY22	SOFT WATER SERVICE - MAY 2022	$44.50
	1				**$44.50**
SEEN OUTFITTING LLC	000006344	05/12/22	00118	WATER OPS EQUIPMENT	$862.00
	1				**$862.00**
SONSRAY MACHINERY	000006300	05/05/22	SWO000970-1	FLEET REPAIR	$1,175.28
	000006464	05/26/22	SWO000481-1	FLEET REPAIR	$2,305.83
	2				**$3,481.11**
STAFFING SOLUTIONS	000006301	05/05/22	36504	TEMP LABOR, CUS SVC, WE 04/24	$1,473.60
		05/05/22	36434	TEMP LABOR, CUS SVC, WE 04/17	$1,473.60
	000006404	05/19/22	36588	TEMP LABOR, CUS SVC, WE 05/01	$1,473.60
		05/19/22	36587	TEMP LABOR, CUS SVC, WE 05/01	$1,490.34
	000006465	05/26/22	36660	TEMP LABOR, CUS SVC, WE 05/08	$1,548.40
		05/26/22	36698	TEMP LABOR, CUS SVC, WE 05/08	$1,473.60
	3				**$8,933.14**
SUNBELT RENTALS INC. DBA BAKER PARTY RENTALS	000006273	05/05/22	105475	EVENT RENTAL EQUIPMENT	$641.65
	1				**$641.65**
T2 TECHNOLOGY GROUP, LLC	000006269	05/05/22	00307574	IT SUPPORT - MARCH	$53,936.00
		05/05/22	00307575	IT SUPPORT - MARCH	$59,410.00
		05/05/22	5078	ANNUAL RENEWAL CON-SNT	$15,931.53
		05/05/22	00307576	NIMBLE REPLACEMENT	$4,747.50
	000006405	05/19/22	5083	M21-120A AWS CLOUD	$9,000.00
	000006428	05/26/22	00307600	IT SUPPORT - APRIL	$24,759.50
		05/26/22	00307599	IT SUPPORT - APRIL	$41,396.00
	3				**$209,180.53**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
THEODORE ROBINS FORD	000006347	05/12/22	C67321	AUTO REPAIRS & MAINTENANCE	$774.98
	1				**$774.98**
TIME WARNER CABLE	000006316	05/05/22	1048224041922	INTERNET - DISTRICT	$2,248.00
	000006406	05/19/22	0012934050322	INTERNET - DISTRICT	$535.87
	000006467	05/26/22	1774795050622	INTERNET - DISTRICT	$97.98
	3				**$2,881.85**
TUSTIN URGENT CARE, APC DBA XPRESS URGENT CARE HUTINGTON BEACH	000006306	05/05/22	3141	MEDICAL SERVICES	$900.00
	1				**$900.00**
UNIVERSAL WASTE SYSTEMS, INC	000006303	05/05/22	0001487475	WASTE REMOVAL - MAY	$124.88
	1				**$124.88**
UNUM	000006408	05/19/22	04205600016JUN22	LIFE INSURANCE - JUNE 2022	$4,165.71
	1				**$4,165.71**
VERIZON WIRELESS	000006317	05/05/22	9904339370	MOBILE INTERNET 03/17-04/16	$2,249.84
	1				**$2,249.84**
WASTE MANAGEMENT OF OC	000006411	05/19/22	0400282-2884-5	TR CONTAINER RENTAL MAY22	$1,424.23
		05/19/22	7957113-0149-4	TR CONTAINER RENTAL APR22	$562.50
	1				**$1,986.73**
WATER SYSTEMS CONSULTING, INC.	000006471	05/26/22	6624	M21-220A WILSON PIPELINE REPLC	$1,640.00
	1				**$1,640.00**
WE SAVE BEES	000006472	05/26/22	10230	BEE REMOVAL SERVICES	$225.00
		05/26/22	10210	BEE REMOVAL SERVICES	$225.00
		05/26/22	10208	BEE REMOVAL SERVICES	$225.00
		05/26/22	10215	BEE REMOVAL SERVICES	$225.00
		05/26/22	10228	BEE REMOVAL SERVICES	$225.00
		05/26/22	10231	BEE REMOVAL SERVICES	$225.00
	1				**$1,350.00**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
WILLIAMS SCOTSMAN INC.	000006413	05/19/22	9013888048	M21-250A1 SCADA & LAB UPGRADE	$3,587.75
	1				**$3,587.75**
WOLF CONSULTING, INC.	000006414	05/19/22	INV-000206	MAINSTAR SUPPORT SERVICE	$1,625.00
	1				**$1,625.00**
WOLFGANG BLOCH	000006356	05/12/22	CHEQ00099007 987	07029200 Overpayment	$143.31
	1				**$143.31**
YORKE ENGINEERING, LLC	000006307	05/05/22	29186	AQ & ES ENVIRONMENTAL SERVICES	$694.00
		05/05/22	29187	AQ & ES ENVIRONMENTAL SERVICES	$1,778.10
	1				**$2,472.10**
ZAYO GROUP HOLDINGS, INC. DBA ZAYO GROUP LLC	000006415	05/19/22	2022050035347	M21-120A AWS CIRCUIT	$2,077.62
	1				**$2,077.62**
ZONES INC	000006416	05/19/22	K19252230101	BLUEBEAM ANNUAL SUBSCRIPTION	$3,536.00
	1				**$3,536.00**
Total GENERAL AND ADMINISTRATIVE	**102**				**$1,731,339.12**
PROJECT REFUNDS					
MYLES CONSTRUCTION	000006313	05/05/22	C0275-22-01	REFUND PLAN CHECK C0275-22-01	$1,108.00
	1				**$1,108.00**
Total PROJECT REFUNDS	**1**				**$1,108.00**
RETIREE CHECKS					
ALAN COOK	000006270	05/05/22	050122	MAY 2022 INSURANCE SUBSIDY	$88.83
	1				**$88.83**
ART HERNANDEZ	000006310	05/05/22	050122	MAY 2022 INSURANCE SUBSIDY	$173.08
	1				**$173.08**
COLEEN L MONTELEONE	000006319	05/05/22	050122	MAY 2022 INSURANCE SUBSIDY	$235.00
	1				**$235.00**
DIANA LEACH	000006277	05/05/22	050122	MAY 2022 INSURANCE SUBSIDY	$271.06

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
	1				**$271.06**
LORI MULLER	000006289	05/05/22	050122	MAY 2022 INSURANCE SUBSIDY	$88.83
	1				**$88.83**
Total RETIREE CHECKS	**5**				**$856.80**
VARIOUS					
AMAZON BUSINESS	000006309	05/05/22	1V3W-PLJC-JHPH	OFFICE SUPPLIES	$153.94
		05/05/22	1RHY-FDKR-NTC6	OFFICE SUPPLIES	$139.36
		05/05/22	1DMJ-MLWC-TDQW	OFFICE SUPPLIES	$65.89
		05/05/22	1NLG-41QM-CRTT	OFFICE SUPPLIES	$56.97
		05/05/22	19NM-CHHW-13JF	OFFICE SUPPLIES	$118.50
	000006362	05/12/22	1FHJ-N3MX-F6K4	OFFICE SUPPLIES	$41.61
		05/12/22	1MV1-XX3P-N97F	OFFICE SUPPLIES	$151.39
		05/12/22	1RHG-H46M-17DL	OFFICE SUPPLIES	$166.49
	000006418	05/19/22	1WVP-P4JN-7447	OFFICE SUPPLIES	$82.31
		05/19/22	1L9C-WW3Q-QHVR	OFFICE SUPPLIES	$18.23
		05/19/22	1TYK-TLPT-DG1J	OFFICE SUPPLIES	$41.97
		05/19/22	1MV1-XX3P-HWQ1	OFFICE SUPPLIES	$221.25
		05/19/22	1GV1-QXC1-H6J7	OFFICE SUPPLIES	$17.23
		05/19/22	1C3K-J9GQ-D9D9	OFFICE SUPPLIES	$242.52
		05/19/22	1WD6-9Y6V-D364	OFFICE SUPPLIES	$17.94
		05/19/22	1J3Y-TV71-4PLR	OFFICE SUPPLIES	$33.92
	000006479	05/26/22	1KK6-KG46-KVJV	OFFICE SUPPLIES	$116.40
		05/26/22	1F67-QQ4L-TJL7	OFFICE SUPPLIES	$76.76
		05/26/22	16W6-JXKT-33K6	OFFICE SUPPLIES	$30.10

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
AMAZON BUSINESS	000006479	05/26/22	1GCJ-XHPC-VL3H	OFFICE SUPPLIES	$20.10
		05/26/22	1JNM-RFXJ-V6JQ	OFFICE SUPPLIES	$264.60
		05/26/22	1RWD-KT9N-FQTD	OFFICE SUPPLIES	$60.50
		05/26/22	1R36-Y3GL-6JCL	OFFICE SUPPLIES	$269.40
		05/26/22	1HTY-96CC-LTHY	OFFICE SUPPLIES	$18.23
		05/26/22	1GHT-WFKW-FDGC	OFFICE SUPPLIES	$25.44
		05/26/22	13JC-PWDF-4WKL	OFFICE SUPPLIES	$26.33
	4				**$2,477.38**
ASHLEY KAY ART	000006435	05/26/22	2022-40	ARTWORK	$400.00
	1				**$400.00**
AT&T	000006436	05/26/22	0779MAY22	339-263-0779 MAY 2022	$1,656.58
	000006480	05/26/22	000018141446	ACCT# 9391061444 APRIL	$67.94
		05/26/22	000018140588	ACCT# 9391055284 APRIL	$3,903.92
	2				**$5,628.44**
BEHRENS AND ASSOCIATES, INC.	000006379	05/19/22	1112427	M21-250A1 SCADA CONTROL ROOM	$1,717.20
	1				**$1,717.20**
DION & SONS, INC	000006441	05/26/22	792032	GASOLINE	$1,064.81
	1				**$1,064.81**
ELITE EQUIPMENT	000006278	05/05/22	45381	REPAIRS	$571.47
		05/05/22	45452	REPAIRS	$1,098.71
		05/05/22	45380	REPAIRS	$438.66
	1				**$2,108.84**
EMISSION COMPLIANT CONTROLS CORP	000006420	05/19/22	PSO5385	ENGINE REPAIRS	$899.53
		05/19/22	PSO5384	ENGINE REPAIRS	$4,244.22
	1				**$5,143.75**
FEDERAL EXPRESS CORPORATION	000006282	05/05/22	7-731-80991	SHIPPING SERVICES	$30.96
	000006421	05/19/22	7-746-43656	SHIPPING SERVICES	$39.58
	2				**$70.54**
GRAINGER	000006365	05/12/22	9281772450	SAFETY TOOLS & EQUIPMENT	$1,597.04

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
GRAINGER	000006423	05/19/22	9277606001	SAFETY TOOLS & EQUIPMENT	$339.25
		05/19/22	9306222242	SAFETY TOOLS & EQUIPMENT	$117.48
	000006484	05/26/22	9295128608	SAFETY TOOLS & EQUIPMENT	$47.77
		05/26/22	9291021260	SAFETY TOOLS & EQUIPMENT	$16.97
	3				**$2,118.51**
HACH COMPANY	000006284	05/05/22	12988543	WATER QUALITY SUPPLIES	$319.56
		05/05/22	12973255	WATER QUALITY SUPPLIES	$1,375.42
	000006366	05/12/22	13010758	WATER QUALITY SUPPLIES	$316.01
	000006485	05/26/22	13015827	WATER QUALITY SUPPLIES	$4,148.74
		05/26/22	13001790	WATER QUALITY SUPPLIES	$6,443.30
	3				**$12,603.03**
HANKS ELECTRICAL SUPPLIES	000006331	05/12/22	505466215	ELECTRICAL SUPPLIES	$283.94
	1				**$283.94**
HRCHITECT	000006393	05/19/22	2022-0372	M18-110 HRIS CONSULTANT	$175.00
	1				**$175.00**
HUB AUTO SUPPLY	000006447	05/26/22	314900	AUTO SUPPLIES	$14.76
	1				**$14.76**
KOFF AND ASSOCIATES	000006450	05/26/22	014438	PROFESSIONAL SERVICES	$2,441.25
	1				**$2,441.25**
LEWIS CONSULTING GROUP	000006287	05/05/22	2022-108	GOV'T RELATIONS SERVICES	$5,000.00
	1				**$5,000.00**
MEYERS NAVE, A PROFESSIONAL CORPORATION	000006337	05/12/22	191943	OCWD PROFESSIONAL SERVICES	$1,117.80
	1				**$1,117.80**
SHERWIN WILLIAMS COMPANY	000006345	05/12/22	6918-9.	PAINTING SUPPLIES	$183.43
	000006462	05/26/22	7563-2	PAINTING SUPPLIES	$183.43
	2				**$366.86**

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
SIGN DEPOT	000006298	05/05/22	9769	EMPLOYEE NAME PLATE	$48.49
	1				**$48.49**
SLATER PRINT MANAGEMENT	000006299	05/05/22	1985	PRINTING - WATER SHUT OFF TAGS	$609.91
	1				**$609.91**
SOUTHERN CALIFORNIA GAS CO	000006315	05/05/22	08520813000APR22	NATURAL GAS, DISTRICT APR 2022	$64.45
		05/05/22	08940813002APR22	NATURAL GAS, RES 1, APR 2022	$1,341.12
	000006343	05/12/22	05060829008APR22.	NATURAL GAS, WELL 5, APR 2022	$20,499.51
	000006460	05/26/22	05200799004MAY22	NATURAL GAS, RES 2, MAY 2022	$3,248.94
	3				**$25,154.02**
STIVERS & ASSOCIATES INC.	000006323	05/05/22	12-901	MWRF LANDSCAPE CONSULTING	$450.00
	1				**$450.00**
THE HOME DEPOT COMMERCIAL ACCT	000006391	05/19/22	1915APR22	TOOLS & EQUIPMENT	$2,790.85
	1				**$2,790.85**
USA BLUEBOOK	000006490	05/26/22	959699	WATER OPS SUPPLIES	$4,707.49
	1				**$4,707.49**
VONAGE HOLDINGS CORPORATION	000006353	05/12/22	2168804	TELEPHONE SERVICES	$10,545.77
	1				**$10,545.77**
WECK ANALYTICAL ENVIRONMENTAL SERVICES INC.	000006412	05/19/22	70916	WATER QUALITY TESTING	$4,482.50
	1				**$4,482.50**
WESTBOUND COMMUNICATIONS	000006473	05/26/22	4863	DIGITAL & SOCIAL MEDIA SERVICE	$4,697.72
	1				**$4,697.72**
WHITTINGHAM PUBLIC AFFAIRS ADVISORS	000006355	05/12/22	001488	SCAQMD CONSULTING	$2,200.00
	1				**$2,200.00**
Total VARIOUS	**39**				**$98,418.86**
WATER SUPPLY					
AIRGAS USA LLC	000006417	05/19/22	9988365728	CYLINDER RENTAL	$128.58
	1				**$128.58**
HARRINGTON INDUSTRIAL PLASTICS	000006318	05/05/22	002P8389	TOOLS	$1,274.47

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
HARRINGTON INDUSTRIAL PLASTICS	000006318	05/05/22	002P8578	TOOLS	$1,707.84
	1				**$2,982.31**
HILL BROTHERS CHEMICAL CO.	000006285	05/05/22	07129901	AMMONIA	$4,131.25
		05/05/22	07129902	AMMONIA	$3,279.10
	1				**$7,410.35**
LINDE INC.	000006296	05/05/22	70095173	CARBON DIOXIDE	$4,782.01
	000006371	05/12/22	10063650	CARBON DIOXIDE	$3,786.51
		05/12/22	10000961	CARBON DIOXIDE	$4,737.56
	000006425	05/19/22	10200993	CARBON DIOXIDE TANK RENTAL	$3,149.53
		05/19/22	10241774	CARBON DIOXIDE	$4,813.34
	000006459	05/26/22	10292265	CARBON DIOXIDE	$4,658.11
	4				**$25,927.06**
MUNICIPAL WATER DISTRICT OF OC	CASH	05/24/22	16980	OPSMAINTEASTORANGE	$36,525.57
		05/24/22	16699	5YEARUPDATEURBANWTR	$8,900.00
	1				**$45,425.57**
NALCO WATER PRETREATMENT SOLUTIONS	000006290	05/05/22	2619791	MWRF GARDEN SUPPLIES	$700.13
	000006369	05/12/22	2622783	MWRF GARDEN SUPPLIES	$577.78
		05/12/22	2629040	MWRF GARDEN SUPPLIES	$700.13
	2				**$1,978.04**
OCWD	CASH	05/25/22	24184	APRIL GAP	$78,210.10
	1				**$78,210.10**
PACIFIC STAR CHEMICAL DBA NORTHSTAR CHEMICAL	000006291	05/05/22	221514	SOD HYDRO	$2,266.00
		05/05/22	221517	SOD HYPO	$259.80
		05/05/22	221518	SOD HYPO	$3,011.56
		05/05/22	221516	SOD HYPO	$1,943.94
	000006370	05/12/22	221939	SOD HYPO	$3,946.05
		05/12/22	221938	SOD HYPO	$1,262.79
	000006398	05/19/22	222522	SOD HYPO	$4,200.67
		05/19/22	222523	SOD HYPO	$2,260.17
	000006457	05/26/22	223158	SOD BISULFITE	$2,345.26
		05/26/22	223156	SOD HYPO	$215.85

Payment Listing by Class
5/1/2022 - 5/31/2022

Vendor Name	Check #/Count	Payment Date	Invoice Number	Invoice Description	Payment Amount
PACIFIC STAR CHEMICAL DBA NORTHSTAR CHEMICAL	000006457	05/26/22	223157	SOD HYPO	$3,815.50
		05/26/22	223155	SOD HYPO	$1,712.59
	4				**$27,240.18**
SEPARATION PROCESSES, INC	000006461	05/26/22	10429	SUPPORT SERVICES	$2,019.36
	1				**$2,019.36**
UNITED WATERWORKS INC.	000006304	05/05/22	S100108360.001	WATER OPS SUPPLIES	$3,349.75
	000006351	05/12/22	S100107987.001	WATER OPS SUPPLIES	$3,399.91
		05/12/22	S100108479.001	WATER OPS SUPPLIES	$7,629.72
	000006488	05/26/22	S100109323.001	WATER OPS SUPPLIES	$21.85
		05/26/22	S100107987.001 -1	WATER OPS SUPPLIES	$3,870.03
	3				**$18,271.26**
Total WATER SUPPLY	**18**				**$209,592.81**
WATER SYSTEM					
ALS TRUESDAIL LABORATORIES INC	000006302	05/05/22	522201461	WATER QUALITY TESTING	$22.00
	000006349	05/12/22	522201619	WATER QUALITY TESTING	$22.00
	000006407	05/19/22	522201683	WATER QUALITY TESTING	$22.00
	3				**$66.00**
ARMORCAST PRODUCTS CO	000006378	05/19/22	0221809-IN	METER BOX AND COVERS	$12,932.37
	1				**$12,932.37**
BADGER METER INC.	000006272	05/05/22	1495385	METERS	$5,960.34
	000006363	05/12/22	80097655	METER CELLULAR ENDPOINTS	$232.29
		05/12/22	1492630	M20-100 METER TECH PILOT	$839.54
	2				**$7,032.17**
BATTERY MART INC	000006274	05/05/22	41569	BATTERIES	$609.24
	1				**$609.24**
DIG SAFE BOARD	000006383	05/19/22	DSB20211098	DIG SAFE BOARD FEES	$212.88
	1				**$212.88**
EWLES MATERIALS INC	000006280	05/05/22	436841	BOBTAIL DUMP FEES	$270.00

Payment Listing by Class
5/1/2022 - 5/31/2022

EWLES MATERIALS INC	000006386	05/19/22	438968	BOBTAIL DUMP FEES	$810.00
2					**$1,080.00**
EXPRESS PIPE & SUPPLY CO. INC	000006281	05/05/22	S112755157.001	PIPE SUPPLIES	$627.98
1					**$627.98**
GOLDEN BELL PRODUCTS	000006390	05/19/22	17866	5.5 GALLON PAILS OF RELEASE	$377.13
1					**$377.13**
LARRY'S BUILDING MATERIALS	000006453	05/26/22	SA-11942	M22-001MV PAVING MATERIALS	$41.35
1					**$41.35**
LINDE GAS & EQUIPMENT INC.	000006322	05/05/22	70191643	TANK RENTAL	$176.65
1					**$176.65**
OMAR & SON'S TRUCKING	000006339	05/12/22	7034	DIRT HAULING	$1,000.00
1					**$1,000.00**
POLLARD WATER	000006295	05/05/22	0211322	WATER OPS TOOLS & SUPPLIES	$1,254.53
1					**$1,254.53**
SAF-T-FLO	000006297	05/05/22	22-9632	VALVE REPAIR	$5,798.92
1					**$5,798.92**
SOUTH COAST A.Q.M.D.	000006372	05/12/22	3989061	AQMD FEE FY22	$143.88
	000006403	05/19/22	3989065	AQMD FEE FY22	$143.88
		05/19/22	3988029	AQMD FEE FY22	$143.88
2					**$431.64**
UNDERGROUND SERVICE ALERT/SC	000006350	05/12/22	420220435	UNDERGROUND DIG ALERT	$653.50
1					**$653.50**
VULCAN MATERIALS	000006305	05/05/22	73267463	PAVING MATERIALS	$106.43
		05/05/22	73267464	PAVING MATERIALS	$107.43
	000006354	05/12/22	73273148	M22-001MV PAVING MATERIALS	$103.43
		05/12/22	73270181	M22-001MV PAVING MATERIALS	$304.36
	000006410	05/19/22	73263036	M22-001MV PAVING MATERIALS	$376.91
	000006491	05/26/22	73276695	M22-001MV PAVING MATERIALS	$123.89
		05/26/22	73284243	M22-001MV PAVING MATERIALS	$110.89
4					**$1,233.34**
Total WATER SYSTEM	**24**				**$33,527.70**

Payment Listing by Class

5/1/2022 - 5/31/2022

Total Payments (All)	**223**	**$4,267,313.63**

MEMORANDUM

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors
FROM: Marwan Khalifa, CPA, MBA, Chief Financial Officer
DATE: June 28, 2022
SUBJECT: Monthly Financial Reports

RECOMMENDATION

Receive and file the Monthly Financial Reports.

STRATEGIC PLAN

Goal #3: Be financially responsible and transparent.

PRIOR BOARD ACTION/DISCUSSION

None.

DISCUSSION

The attached Treasurer's status reports reflect the performance of Mesa Water's cash and investment accounts.

FINANCIAL IMPACT

None.

ATTACHMENTS

Attachment A: Monthly Treasurer's Status Report on Investments as of 5/31/22
Attachment B: Monthly Treasurer's Status Report on Investments as of 4/30/22

Mesa Water District
Monthly Treasurer's Status Report on Investments
5/31/2022

Investments are in compliance with the Investment Policy adopted as Resolution 1506 of the Mesa Water District Board of Directors.
The liquidity of investments will meet cash flow needs for the next six months except under unforeseen catastrophic circumstances.

INVESTMETS	Maturity Date	Days to Maturity	YTM@Cost	Cost Value	% of Portfolio	Policy % Limit	Market Value
Local Agency Investment Fund (LAIF)	Liquid	1	0.68%	1,085.56	0.00%	No Limit	1,085.56
Orange County Investment Pool (OCIP) *	Liquid	1	0.62%	829,059.85	2.44%	No Limit	829,059.85
Miscellaneous Cash (Petty, Emergency, etc.)	Liquid	1	0.00%	14,000.00	0.04%	N/A	14,000.00
US Bank Custody Account							
Negotiable Certificate of Deposit	Various	844	1.26%	9,684,000.00	27.41%	30.00%	9,294,422.89
US Agency Bonds	Various	966	0.98%	16,097,390.79	45.14%	No Limit	15,306,655.40
US Treasury Bonds	Various	917	0.67%	2,685,104.80	7.55%	No Limit	2,561,241.50
Sub Total / Average		920	1.04%	28,466,495.59			27,162,319.79
US Bank Custody Account	Liquid	1	0.35%	62,422.08	0.18%	No Limit	62,422.08
Pacific Premier Bank	Liquid	1	1.25%	5,847,836.91	17.24%	No Limit	5,847,836.91
Total / Average		**737**	**1.07%**	**$ 35,220,899.99**	**100.00%**		**$ 33,916,724.19**

PARS OPEB & PENSION TRUS	Monthly Rate of Return	Cost Value	Market Value
Public Agency Retirement Services (PARS)			
Capital Appreciation HighMark PLUS Fund			
OPEB	0.27%	$ 1,883,532.51	$ 1,970,791.70
Pension Trust	0.27%	$ 13,422,818.11	$ 14,328,826.05
		$ 15,306,350.62	**$ 16,299,617.75**

PARS OPEB & Pension Trust Benchmark - S & P 500 Index
1 Month | 0.01 %

RISK RETENTION CORPORATION	Monthly Rate of Return	Balance
Pacific Premier Bank	N/A	**$ 4,876,389.75**

California | Local Government Investment Pools

(1) Local Agency Investment Fund | LAIF includes funds designated for allocation of working capital cash to reserves, working capital cash and advances for construction. LAIF market value on Monthly Treasurer's Status Report on Investments for months between quarters is the dollar amount invested times the fair market value Fair Value factor of prior quarter end. The general ledger LAIF carrying value reflects market value (unrealized gains and losses) only at fiscal year end. LAIF provides the Fair Value factor as of March 31, June 30, September 30 and December 31 each year. LAIF market value on this report is based on the March 2022 Fair Value Factor of 0.988753538.

(2) Orange County Treasurer's Investment Pool | OCIP - The 2022 Net Asset Value Factor is estimated at 1.00, and the interest rate is the Monthly Net Yield.

Weighted Average Return

Mesa Water® Funds | 1.066%
Benchmark: 3 Month Treasury Bill - May 2022 | 0.99 %

Weighted Average Maturity

Years | 12.0 Days | 737

Mesa Water District
Transactions Summary
Monthly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: US Bank | Custodian - Fixed
Begin Date: 04/30/2022, End Date: 05/31/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
FHLB 3.125 10/29/2026-24	3130ARUF6	3.125	5/12/2022	10/29/2026	250,000.00	250,000.00	282.12	250,282.12
Sub Total / Average Buy					**250,000.00**	**250,000.00**	**282.12**	**250,282.12**

Mesa Water District
Date To Date
Interest | Received - Quarterly
Report Format: By Transaction
Group By: Asset Category
Portfolio / Report Group: Report Group | Treasurer's Report
Begin Date: 4/30/2022, End Date: 5/31/2022

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
LAIF | Policy							
	LGIP0012	6/30/2010	N/A	N/A	1,085.56	0.00	0.00
Sub Total/Average					**1,085.56**	**0.00**	**0.00**
Orange County LGIP							
	LGIP9LC	9/30/2011	N/A	N/A	829,059.85	239.37	0.00
Sub Total/Average					**829,059.85**	**239.37**	**0.00**
Miscellaneous Cash (Petty | Emergency)							
Miscellaneous Cash	CASH	6/30/2015	N/A	N/A	14,000.00	0.00	0.00
Sub Total/Average					**14,000.00**	**0.00**	**0.00**
Negotiable CD30%							
Homestreet Bank WA 0.1 8/22/2022	43785QPQ0	2/22/2021	8/22/2022	0.100	249,000.00	20.47	0.00
Ally Bank UT 1.85 10/24/2022	02007GML4	10/24/2019	10/24/2022	1.850	247,000.00	0.00	0.00
Preferred Bank CA 0.25 7/17/2023	740367LV7	7/17/2020	7/17/2023	0.250	249,000.00	51.16	0.00
Merrick Bank UT 3 7/31/2023	59013J6G9	1/30/2019	7/31/2023	3.000	249,000.00	613.97	0.00
Enterprise Bank & Trust 1.75 11/8/2023	29367SJR6	11/8/2019	11/8/2023	1.750	249,000.00	358.15	0.00
Raymond James Bank 1.75 11/8/2023	75472RAH4	11/8/2019	11/8/2023	1.750	247,000.00	2,143.49	0.00
Third Federal Savings 1.75 11/13/2023	88413QCJ5	11/12/2019	11/13/2023	1.750	247,000.00	2,143.49	0.00
Marlin Business Bank UT 1.7 12/4/2023	57116ATG3	12/2/2019	12/4/2023	1.700	249,000.00	347.92	0.00
John Marshall Bancorp VA 0.2 12/29/2023	47804GGC1	12/30/2020	12/29/2023	0.200	249,000.00	40.93	0.00
Goldman Sachs NY 3.3 1/16/2024	38148P4E4	1/16/2019	1/16/2024	3.300	245,000.00	0.00	0.00
Bankwell Bank CT 0.35 1/30/2024	06654BCM1	7/30/2020	1/30/2024	0.350	249,000.00	0.00	0.00
Morgan Stanley UT 3.05 1/31/2024	61690UDV9	1/31/2019	1/31/2024	3.050	246,000.00	0.00	0.00
Morgan Stanley NY 3.05 1/31/2024	61760AVF3	1/31/2019	1/31/2024	3.050	246,000.00	0.00	0.00
Enerbank UT 1.15 4/29/2024	29278TNY2	4/29/2020	4/29/2024	1.150	249,000.00	235.36	0.00
First Freedom Bank 1.1 4/30/2024	32027BAM9	4/30/2020	4/30/2024	1.100	249,000.00	225.12	0.00
Capital One VA 2.65 5/22/2024	14042RLP4	5/22/2019	5/22/2024	2.650	246,000.00	3,232.71	0.00
Eaglebank MD 2.5 5/24/2024	27002YEN2	5/24/2019	5/24/2024	2.500	249,000.00	511.64	0.00
Farm Bureau Bank NV 0.25 7/9/2024	307660LK4	10/9/2020	7/9/2024	0.250	249,000.00	51.16	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
Luana Savings Bank IA 0.2 8/19/2024	549104WN3	2/19/2021	8/19/2024	0.200	249,000.00	0.00	0.00
Synchrony Bank UT 0.55 9/3/2024	87164WA73	9/3/2021	9/3/2024	0.550	249,000.00	0.00	0.00
Sallie Mae Bank UT 1.9 10/16/2024	7954504P7	10/17/2019	10/16/2024	1.900	247,000.00	0.00	0.00
Celtic Bank UT 1.65 10/23/2024	15118RSV0	10/23/2019	10/23/2024	1.650	249,000.00	337.68	0.00
Garnett State Bank 1.7 11/19/2024	366526AW1	11/19/2019	11/19/2024	1.700	249,000.00	347.92	0.00
Citizens State Bank 1.7 11/22/2024	176688CR8	11/22/2019	11/22/2024	1.700	249,000.00	347.92	0.00
Transportation Alliance Bank 0.4 1/30/2025	89388CFD5	8/3/2021	1/30/2025	0.400	247,000.00	81.21	0.00
BMO Harris Bank IL 0.5 3/28/2025-20	05600XAY6	9/28/2020	3/28/2025	0.500	249,000.00	0.00	0.00
Baycoast Bank MA 0.9 3/31/2025	072727BG4	3/31/2020	3/31/2025	0.900	248,000.00	0.00	0.00
First Commercial Bank MS 0.3 3/31/2025	31984GFK0	9/30/2020	3/31/2025	0.300	249,000.00	61.40	0.00
Flagstar Bank MI 1.25 4/30/2025	33847E3A3	4/30/2020	4/30/2025	1.250	248,000.00	0.00	0.00
Apex Bank TN 0.95 5/8/2025	03753XBK5	5/8/2020	5/8/2025	0.950	249,000.00	194.42	0.00
Seattle Bank WA 0.75 6/2/2025-20	81258PKJ1	6/2/2020	6/2/2025	0.750	249,000.00	153.49	0.00
Medallion Bank UT 0.6 7/15/2025	58404DHM6	7/15/2020	7/15/2025	0.600	249,000.00	122.79	0.00
BMW Bank UT 0.5 9/25/2025	05580AXF6	9/25/2020	9/25/2025	0.500	249,000.00	0.00	0.00
Texas Exchange Bank TX 0.6 12/18/2025	88241TJR2	12/18/2020	12/18/2025	0.600	249,000.00	122.79	0.00
JPMorgan Chase OH 0.5 12/29/2025-21	48128UUZ0	12/29/2020	12/29/2025	0.500	249,000.00	0.00	0.00
Live Oak Banking NC 0.5 2/10/2026	538036NE0	2/10/2021	2/10/2026	0.500	249,000.00	102.33	0.00
Toyota Financial Savings NV 0.95 7/29/2026	89235MLE9	7/29/2021	7/29/2026	0.950	248,000.00	0.00	0.00
UBS Bank UT 0.95 8/25/2026	90348JS50	8/25/2021	8/25/2026	0.950	249,000.00	194.42	0.00
Capital One Bank VA 1.1 11/17/2026	14042TDW4	11/17/2021	11/17/2026	1.100	248,000.00	1,352.79	0.00
Sub Total/Average					**9,684,000.00**	**13,394.73**	**0.00**
US Agency - No Limit							
FNMA 1.375 9/6/2022	3135G0W33	11/8/2019	9/6/2022	1.375	500,000.00	0.00	0.00
FHLB 3 12/9/2022	3130AFE78	1/9/2019	12/9/2022	3.000	1,000,000.00	0.00	0.00
FFCB 0.125 5/3/2023-21	3133EMPA4	2/5/2021	5/3/2023	0.125	250,000.00	156.25	0.00
FFCB 2.125 6/5/2023	3133EKPT7	11/8/2019	6/5/2023	2.125	500,000.00	0.00	0.00
FHLMC 0.375 7/14/2023-22	3134GV5F1	7/14/2020	7/14/2023	0.375	250,000.00	0.00	0.00
FAMC 3.05 9/19/2023	3132X06C0	1/9/2019	9/19/2023	3.050	500,000.00	0.00	0.00
FFCB 0.25 9/21/2023-22	3133EMAM4	9/24/2020	9/21/2023	0.250	500,000.00	0.00	0.00
FFCB 0.27 11/3/2023-22	3133EMFN7	11/3/2020	11/3/2023	0.270	250,000.00	337.50	0.00
FHLMC 0.3 11/13/2023-22	3134GXAY0	11/13/2020	11/13/2023	0.300	250,000.00	375.00	0.00
FFCB 0.25 3/1/2024-21	3133EMSD5	3/24/2021	3/1/2024	0.250	250,000.00	0.00	0.00
FHLMC 0.5 5/20/2024-22	3134GVXR4	5/21/2020	5/20/2024	0.500	500,000.00	1,250.00	0.00
FAMC 2.15 6/5/2024	31422BGA2	11/8/2019	6/5/2024	2.150	500,000.00	0.00	0.00
FHLMC 0.45 7/8/2024-22	3134GV4S4	7/13/2020	7/8/2024	0.450	750,000.00	0.00	0.00
FHLMC 0.35 9/30/2024-22	3134GWVM5	9/30/2020	9/30/2024	0.350	250,000.00	0.00	0.00
FFCB 0.3 11/12/2024-21	3133EMQQ8	3/2/2021	11/12/2024	0.300	250,000.00	375.00	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
FFCB 1.32 1/21/2025	3133ENLU2	3/17/2022	1/21/2025	1.320	250,000.00	0.00	0.00
FFCB 0.32 2/3/2025-21	3133EMPV8	2/5/2021	2/3/2025	0.320	250,000.00	0.00	0.00
FHLB 0.625 2/24/2025-22	3130ANQ86	8/24/2021	2/24/2025	0.625	250,000.00	0.00	0.00
FFCB 0.43 3/3/2025	3133EMSJ2	3/3/2021	3/3/2025	0.430	250,000.00	0.00	0.00
FHLB 0.5 3/10/2025-21	3130ALDZ4	3/24/2021	3/10/2025	0.500	250,000.00	0.00	0.00
FHLMC 0.7 5/13/2025-21	3134GVSY5	5/13/2020	5/13/2025	0.700	500,000.00	1,750.00	0.00
FFCB 0.6 6/16/2025-22	3133EMH47	6/17/2021	6/16/2025	0.600	250,000.00	0.00	0.00
FNMA 0.6 7/29/2025-22	3136G4D75	12/18/2020	7/29/2025	0.600	250,000.00	0.00	0.00
FNMA 0.5 8/14/2025-23	3135G05S8	4/29/2021	8/14/2025	0.500	250,000.00	0.00	0.00
FNMA 0.375 8/25/2025	3135G05X7	11/12/2020	8/25/2025	0.375	250,000.00	0.00	0.00
FFCB 0.53 9/29/2025-21	3133EMBH4	6/17/2021	9/29/2025	0.530	500,000.00	0.00	0.00
FHLMC 0.4 9/30/2025-21	3134GWVP8	9/30/2020	9/30/2025	0.400	250,000.00	0.00	0.00
FHLMC 0.65 10/27/2025-21	3134GW5R3	5/25/2021	10/27/2025	0.650	375,000.00	0.00	0.00
FHLMC 0.45 10/29/2025-21	3134GW3J3	4/22/2021	10/29/2025	0.450	250,000.00	0.00	0.00
FNMA 0.54 11/3/2025-22	3135GA2G5	10/30/2020	11/3/2025	0.540	500,000.00	1,350.00	0.00
FNMA 0.56 11/17/2025-22	3135GA2Z3	11/17/2020	11/17/2025	0.560	325,000.00	910.00	0.00
FNMA 0.58 11/25/2025-22	3135GA5E7	11/30/2020	11/25/2025	0.580	250,000.00	725.00	0.00
FFCB 0.47 12/22/2025-22	3133EMLC4	12/22/2020	12/22/2025	0.470	250,000.00	0.00	0.00
FFCB 0.45 2/2/2026-23	3133EMPD8	3/2/2021	2/2/2026	0.450	300,000.00	0.00	0.00
FHLB 0.53 2/10/2026	3130AKWW2	8/19/2021	2/10/2026	0.530	310,000.00	0.00	0.00
FHLB 0.625 2/24/2026-21	3130AL7M0	3/2/2021	2/24/2026	0.625	250,000.00	0.00	0.00
FFCB 0.8 3/9/2026-23	3133EMSU7	9/24/2021	3/9/2026	0.800	250,000.00	0.00	0.00
FHLB 0.6 3/10/2026-21	3130ALFX7	3/10/2021	3/10/2026	0.600	250,000.00	0.00	0.00
FHLB 0.75 3/16/2026-21	3130ALF33	3/24/2021	3/16/2026	0.750	250,000.00	0.00	0.00
FHLB 0.85 3/30/2026-21	3130ANY79	11/10/2021	3/30/2026	0.850	250,000.00	0.00	0.00
FHLMC 1.03 4/29/2026-22	3130ALZM9	4/29/2021	4/29/2026	1.030	250,000.00	0.00	0.00
FHLB 0.875 5/26/2026-21	3130AMHB1	5/28/2021	5/26/2026	0.875	250,000.00	1,093.75	0.00
FFCB 0.9 6/15/2026-22	3133EMH21	6/17/2021	6/15/2026	0.900	250,000.00	0.00	0.00
FFCB 0.94 9/28/2026-22	3133EM6E7	9/28/2021	9/28/2026	0.940	250,000.00	0.00	0.00
FHLMC 0.8 10/27/2026-21	3134GW4C7	11/10/2021	10/27/2026	0.800	250,000.00	0.00	0.00
FHLB 3.125 10/29/2026-24	3130ARUF6	5/12/2022	10/29/2026	3.125	250,000.00	0.00	0.00
FFCB 1.46 11/30/2026-23	3133ENFP0	11/30/2021	11/30/2026	1.460	250,000.00	1,825.00	0.00
FFCB 1.68 3/10/2027	3133ENRD4	3/17/2022	3/10/2027	1.680	250,000.00	0.00	0.00
FHLB 3 4/21/2027-23	3130ARJF9	4/21/2022	4/21/2027	3.000	250,000.00	0.00	0.00
Sub Total/Average					**16,060,000.00**	**10,147.50**	**0.00**
US Treasury - No Limit							
T-Note 0.125 8/31/2023	91282CCU3	1/24/2022	8/31/2023	0.125	200,000.00	0.00	0.00
T-Note 0.375 10/31/2023	91282CDD0	11/10/2021	10/31/2023	0.375	250,000.00	0.00	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
T-Note 0.125 2/15/2024	91282CBM2	8/19/2021	2/15/2024	0.125	250,000.00	0.00	0.00
T-Note 0.25 3/15/2024	91282CBR1	9/24/2021	3/15/2024	0.250	250,000.00	0.00	0.00
T-Note 0.25 6/15/2024	91282CCG4	9/24/2021	6/15/2024	0.250	250,000.00	0.00	0.00
T-Note 2.25 12/31/2024	9128283P3	4/13/2022	12/31/2024	2.250	250,000.00	0.00	0.00
T-Note 0.375 4/30/2025	912828ZL7	7/1/2021	4/30/2025	0.375	250,000.00	0.00	0.00
T-Note 0.375 4/30/2025	912828ZL7	8/19/2021	4/30/2025	0.375	250,000.00	0.00	0.00
T-Note 0.25 6/30/2025	912828ZW3	4/22/2021	6/30/2025	0.250	250,000.00	0.00	0.00
T-Note 0.375 1/31/2026	91282CBH3	4/29/2021	1/31/2026	0.375	250,000.00	0.00	0.00
T-Note 0.625 7/31/2026	91282CCP4	9/24/2021	7/31/2026	0.625	250,000.00	0.00	0.00
Sub Total/Average					**2,700,000.00**	**0.00**	**0.00**
US Bank MM							
	MM65000	7/31/2020	N/A	N/A	62,422.08	14.48	0.00
Sub Total/Average					**62,422.08**	**14.48**	**0.00**
Pacific Premier Bank							
	MM0831	5/28/2020	N/A	N/A	5,847,836.91	0.00	0.00
Sub Total/Average					**5,847,836.91**	**0.00**	**0.00**
Total / Average					**35,198,404.40**	**23,796.08**	**0.00**

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS OPEB Trust
As of 5/31/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS OPEB Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	4,849.99	126,566.95	145,693.23
DFA Large Cap	233203868	Mutual Fund	3,811.96	89,562.61	94,650.61
Dodge & Cox International	256206103	Mutual Fund	806.94	30,872.99	37,635.00
Dodge & Cox Stock Fund	256219106	Mutual Fund	543.09	99,758.93	128,772.32
Doubeline Core Fix Income	258620301	Mutual Fund	10,434.86	115,297.48	103,409.22
Harbor Capital Appreciation	411512528	Mutual Fund	1,021.53	86,567.17	72,110.10
Hartford Schroders	41665X859	Mutual Fund	6,254.42	112,021.07	102,760.22
iShares Russell Mid Cap	464287499	Mutual Fund	2,052.00	94,719.01	147,826.08
iShares SP500	464287408	Mutual Fund	401.00	52,625.08	60,318.42
MFS International	552746356	Mutual Fund	960.11	33,877.94	36,243.66
PGIM Total Return Bond	74440B884	Mutual Fund	8,118.12	118,913.64	103,992.11
PIMCO	693390841	Mutual Fund	1,979.29	17,845.52	16,190.59
Pimco Total Return Fund	693390700	Mutual Fund	11,339.37	118,966.69	104,435.52
Price T Rowe Growth	741479406	Mutual Fund	993.11	76,841.30	73,272.27
Undiscovered	904504479	Mutual Fund	1,258.65	90,627.85	107,424.42
US Bank PARS - OPEB Trust MM	MM4900	Money Market	127,785.39	127,785.39	127,785.39
Vanguard Growth & Income	921913208	Mutual Fund	3,106.01	247,573.63	287,368.67
Vanguard Real Estate	922908553	Mutual Fund	391.00	32,179.79	38,736.37
Vanguard Short Term	922031836	Mutual Fund	8,414.98	89,192.46	86,084.94
Vanguard Small Cap Growth	922908595	Mutual Fund	448.00	121,737.01	96,082.56
Sub Total / Average PARS OPEB Trust			**194,969.82**	**1,883,532.51**	**1,970,791.70**
Total / Average			**194,969.82**	**1,883,532.51**	**1,970,791.70**

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS Pension Trust
As of 5/31/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS Pension Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	35,643.69	954,970.89	1,070,736.06
DFA Large Cap	233203868	Mutual Fund	27,671.26	641,924.99	687,077.32
Dodge & Cox International	256206103	Mutual Fund	5,841.52	222,538.81	272,448.50
Dodge & Cox Stock Fund	256219106	Mutual Fund	3,991.90	750,294.66	946,517.29
Doubeline Core Fix Income	258620301	Mutual Fund	76,699.78	844,270.11	760,094.60
Harbor Capital Appreciation	411512528	Mutual Fund	7,468.04	631,225.27	527,169.79
Hartford Schroders	41665X859	Mutual Fund	45,509.01	797,799.85	747,713.03
iShares Russell Mid Cap	464287499	Mutual Fund	15,098.00	472,053.65	1,087,659.92
iShares SP500	464287408	Mutual Fund	2,941.00	384,111.58	442,385.22
MFS International	552746356	Mutual Fund	6,926.82	234,557.07	261,487.96
PGIM Total Return Bond	74440B884	Mutual Fund	59,337.08	865,714.69	760,108.28
PIMCO	693390841	Mutual Fund	14,546.24	130,876.87	118,988.31
Pimco Total Return Fund	693390700	Mutual Fund	82,996.03	865,637.68	764,393.44
Price T Rowe Growth	741479406	Mutual Fund	7,260.20	561,395.37	535,658.06
Undiscovered	904504479	Mutual Fund	9,251.36	634,283.08	789,603.65
US Bank PARS - Pension Trust MM	MM4901	Money Market	822,855.02	822,855.02	822,855.02
Vanguard Growth & Income	921913208	Mutual Fund	22,826.98	1,822,106.05	2,111,951.54
Vanguard Real Estate	922908553	Mutual Fund	2,872.00	226,871.15	284,529.04
Vanguard Short Term	922031836	Mutual Fund	61,679.85	653,236.44	630,984.84
Vanguard Small Cap Growth	922908595	Mutual Fund	3,294.00	906,094.88	706,464.18
Sub Total / Average PARS Pension Trust			**1,314,709.78**	**13,422,818.11**	**14,328,826.05**
Total / Average			**1,314,709.78**	**13,422,818.11**	**14,328,826.05**

Mesa Water District
Transactions Summary
Monthly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: PARS OPEB Trust
Begin Date: 04/30/2022, End Date: 05/31/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
Pimco Total Return Fund	693390700	0.000	5/31/2022	N/A	22.64	208.48	0.00	208.48
PGIM Total Return Bond	74440B884	0.000	5/31/2022	N/A	24.52	314.07	0.00	314.07
Vanguard Short Term	922031836	0.000	5/31/2022	N/A	13.09	133.92	0.00	133.92
Sub Total / Average Buy					**60.25**	**656.47**	**0.00**	**656.47**
Dividend								
Doubeline Core Fix Income	258620301	0.000	5/2/2022	N/A	0.00	0.00	283.31	283.31
PIMCO	693390841	0.000	5/31/2022	N/A	0.00	0.00	64.17	64.17
Pimco Total Return Fund	693390700	0.000	5/31/2022	N/A	0.00	0.00	208.48	208.48
PGIM Total Return Bond	74440B884	0.000	5/31/2022	N/A	0.00	0.00	314.07	314.07
Vanguard Short Term	922031836	0.000	5/31/2022	N/A	0.00	0.00	133.92	133.92
Sub Total / Average Dividend					**0.00**	**0.00**	**1,003.95**	**1,003.95**

Mesa Water District
Transactions Summary
Monthly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: PARS Pension Trust
Begin Date: 04/30/2022, End Date: 05/31/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Dividend								
Doubeline Core Fix Income	258620301	0.000	5/2/2022	N/A	0.00	0.00	2,082.42	2,082.42
PIMCO	693390841	0.000	5/31/2022	N/A	0.00	0.00	471.53	471.53
Pimco Total Return Fund	693390700	0.000	5/31/2022	N/A	0.00	0.00	1,529.14	1,529.14
PGIM Total Return Bond	74440B884	0.000	5/31/2022	N/A	0.00	0.00	2,303.08	2,303.08
Vanguard Short Term	922031836	0.000	5/31/2022	N/A	0.00	0.00	983.18	983.18
Sub Total / Average Dividend					**0.00**	**0.00**	**7,369.35**	**7,369.35**

Mesa Water District
Monthly Treasurer's Status Report on Investments
4/30/2022

Investments are in compliance with the Investment Policy adopted as Resolution 1506 of the Mesa Water District Board of Directors.
The liquidity of investments will meet cash flow needs for the next six months except under unforeseen catastrophic circumstances.

INVESTMETS	Maturity Date	Days to Maturity	YTM@Cost	Cost Value	% of Portfolio	Policy % Limit	Market Value
Local Agency Investment Fund (LAIF)	Liquid	1	0.52%	1,085.56	0.00%	No Limit	1,085.56
Orange County Investment Pool (OCIP) *	Liquid	1	0.40%	828,578.46	2.26%	No Limit	828,578.46
Miscellaneous Cash (Petty, Emergency, etc.)	Liquid	1	0.00%	14,000.00	0.04%	N/A	14,000.00
US Bank Custody Account							
Negotiable Certificate of Deposit	Various	876	1.26%	9,684,000.00	25.38%	30.00%	9,309,558.83
US Agency Bonds	Various	986	0.94%	15,847,390.79	40.88%	No Limit	14,991,414.20
US Treasury Bonds	Various	947	0.67%	2,685,104.80	6.94%	No Limit	2,545,023.00
Sub Total / Average		944	1.02%	28,216,495.59			26,845,996.03
US Bank Custody Account	Liquid	1	0.01%	1,385,773.21	3.78%	No Limit	1,385,773.21
Pacific Premier Bank	Liquid	1	1.25%	7,600,606.90	20.72%	No Limit	7,600,606.90
Total / Average		**691**	**1.02%**	**$ 38,046,539.72**	**100.00%**		**$ 36,676,040.16**

PARS OPEB & PENSION TRUS	Monthly Rate of Return	Cost Value	Market Value
Public Agency Retirement Services (PARS)			
Capital Appreciation HighMark PLUS Fund			
OPEB	-6.75%	$ 1,883,286.64	$ 1,966,352.46
Pension Trust	-6.75%	$ 13,499,828.26	$ 14,375,217.31
		$ 15,383,114.90	**$ 16,341,569.77**

PARS OPEB & Pension Trust Benchmark - S & P 500 Index
1 Month | - 8.80 %

RISK RETENTION CORPORATION	Monthly Rate of Return	Balance
Pacific Premier Bank	N/A	**$ 2,882,764.75**

California | Local Government Investment Pools

(1) Local Agency Investment Fund | LAIF includes funds designated for allocation of working capital cash to reserves, working capital cash and advances for construction. LAIF market value on Monthly Treasurer's Status Report on Investments for months between quarters is the dollar amount invested times the fair market value Fair Value factor of prior quarter end. The general ledger LAIF carrying value reflects market value (unrealized gains and losses) only at fiscal year end. LAIF provides the Fair Value factor as of March 31, June 30, September 30 and December 31 each year. LAIF market value on this report is based on the March 2022 Fair Value Factor of 0.988753538.

(2) Orange County Treasurer's Investment Pool | OCIP - The 2022 Net Asset Value Factor is estimated at 1.00, and the interest rate is the Monthly Net Yield.

Weighted Average Return

Mesa Water® Funds | 1.02%
Benchmark: 3 Month Treasury Bill - April 2022 | 0.76 %

Weighted Average Maturity

Years | 1.9 Days | 691

Mesa Water District
Transactions Summary
Monthly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: US Bank | Custodian - Fixed
Begin Date: 03/31/2022, End Date: 04/30/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
T-Note 2.25 12/31/2024	9128283P3	2.465	4/13/2022	12/31/2024	250,000.00	248,592.25	1,600.48	250,192.73
FHLB 3 4/21/2027-23	3130ARJF9	3.000	4/21/2022	4/21/2027	250,000.00	250,000.00	0.00	250,000.00
Sub Total / Average Buy					**500,000.00**	**498,592.25**	**1,600.48**	**500,192.73**
Matured								
FNMA 1.875 4/5/2022	3135G0T45	0.000	4/5/2022	4/5/2022	500,000.00	500,000.00	0.00	500,000.00
American Express 2.45 4/5/2022	02587DN38	0.000	4/5/2022	4/5/2022	247,000.00	247,000.00	0.00	247,000.00
Sub Total / Average Matured					**747,000.00**	**747,000.00**	**0.00**	**747,000.00**

Mesa Water District
Date To Date
Interest | Received - Monthly
Report Format: By Transaction
Group By: Asset Category
Portfolio / Report Group: Report Group | Treasurer's Report
Begin Date: 3/31/2022, End Date: 4/30/2022

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
LAIF | Policy - LAIF LGIP							
	LGIP0012	6/30/2010	N/A	N/A	1,085.56	0.85	0.00
Sub Total/Average					**1,085.56**	**0.85**	**0.00**
Orange County LGIP - Orange County Investment							
Pool LGIP	LGIP9LC	9/30/2011	N/A	N/A	828,578.46	0.00	0.00
Sub Total/Average					**828,578.46**	**0.00**	**0.00**
Miscellaneous Cash (Petty | Emergency)							
Miscellaneous Cash	CASH	6/30/2015	N/A	N/A	14,000.00	0.00	0.00
Sub Total/Average					**14,000.00**	**0.00**	**0.00**
Negotiable Certificate of Deposit							
American Express 2.45 4/5/2022	02587DN38	4/5/2017	4/5/2022	2.450	0.00	3,017.46	0.00
Homestreet Bank WA 0.1 8/22/2022	43785QPQ0	2/22/2021	8/22/2022	0.100	249,000.00	21.15	0.00
Ally Bank UT 1.85 10/24/2022	02007GML4	10/24/2019	10/24/2022	1.850	247,000.00	2,278.49	0.00
Preferred Bank CA 0.25 7/17/2023	740367LV7	7/17/2020	7/17/2023	0.250	249,000.00	52.87	0.00
Merrick Bank UT 3 7/31/2023	59013J6G9	1/30/2019	7/31/2023	3.000	249,000.00	634.44	0.00
Enterprise Bank & Trust 1.75 11/8/2023	29367SJR6	11/8/2019	11/8/2023	1.750	249,000.00	370.09	0.00
Raymond James Bank 1.75 11/8/2023	75472RAH4	11/8/2019	11/8/2023	1.750	247,000.00	0.00	0.00
Third Federal Savings 1.75 11/13/2023	88413QCJ5	11/12/2019	11/13/2023	1.750	247,000.00	0.00	0.00
Marlin Business Bank UT 1.7 12/4/2023	57116ATG3	12/2/2019	12/4/2023	1.700	249,000.00	359.52	0.00
John Marshall Bancorp VA 0.2 12/29/2023	47804GGC1	12/30/2020	12/29/2023	0.200	249,000.00	42.30	0.00
Goldman Sachs NY 3.3 1/16/2024	38148P4E4	1/16/2019	1/16/2024	3.300	245,000.00	0.00	0.00
Bankwell Bank CT 0.35 1/30/2024	06654BCM1	7/30/2020	1/30/2024	0.350	249,000.00	0.00	0.00
Morgan Stanley UT 3.05 1/31/2024	61690UDV9	1/31/2019	1/31/2024	3.050	246,000.00	0.00	0.00
Morgan Stanley NY 3.05 1/31/2024	61760AVF3	1/31/2019	1/31/2024	3.050	246,000.00	0.00	0.00
Enerbank UT 1.15 4/29/2024	29278TNY2	4/29/2020	4/29/2024	1.150	249,000.00	243.20	0.00
First Freedom Bank 1.1 4/30/2024	32027BAM9	4/30/2020	4/30/2024	1.100	249,000.00	232.63	0.00
Capital One VA 2.65 5/22/2024	14042RLP4	5/22/2019	5/22/2024	2.650	246,000.00	0.00	0.00
Eaglebank MD 2.5 5/24/2024	27002YEN2	5/24/2019	5/24/2024	2.500	249,000.00	528.70	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
Farm Bureau Bank NV 0.25 7/9/2024	307660LK4	10/9/2020	7/9/2024	0.250	249,000.00	52.87	0.00
Luana Savings Bank IA 0.2 8/19/2024	549104WN3	2/19/2021	8/19/2024	0.200	249,000.00	0.00	0.00
Synchrony Bank UT 0.55 9/3/2024	87164WA73	9/3/2021	9/3/2024	0.550	249,000.00	0.00	0.00
Sallie Mae Bank UT 1.9 10/16/2024	7954504P7	10/17/2019	10/16/2024	1.900	247,000.00	2,340.07	0.00
Celtic Bank UT 1.65 10/23/2024	15118RSV0	10/23/2019	10/23/2024	1.650	249,000.00	348.94	0.00
Garnett State Bank 1.7 11/19/2024	366526AW1	11/19/2019	11/19/2024	1.700	249,000.00	359.52	0.00
Citizens State Bank 1.7 11/22/2024	176688CR8	11/22/2019	11/22/2024	1.700	249,000.00	359.52	0.00
Transportation Alliance Bank 0.4 1/30/2025	89388CFD5	8/3/2021	1/30/2025	0.400	247,000.00	83.91	0.00
BMO Harris Bank IL 0.5 3/28/2025-20	05600XAY6	9/28/2020	3/28/2025	0.500	249,000.00	0.00	0.00
Baycoast Bank MA 0.9 3/31/2025	072727BG4	3/31/2020	3/31/2025	0.900	248,000.00	0.00	0.00
First Commercial Bank MS 0.3 3/31/2025	31984GFK0	9/30/2020	3/31/2025	0.300	249,000.00	63.44	0.00
Flagstar Bank MI 1.25 4/30/2025	33847E3A3	4/30/2020	4/30/2025	1.250	248,000.00	1,545.75	0.00
Apex Bank TN 0.95 5/8/2025	03753XBK5	5/8/2020	5/8/2025	0.950	249,000.00	200.91	0.00
Seattle Bank WA 0.75 6/2/2025-20	81258PKJ1	6/2/2020	6/2/2025	0.750	249,000.00	158.61	0.00
Medallion Bank UT 0.6 7/15/2025	58404DHM6	7/15/2020	7/15/2025	0.600	249,000.00	126.89	0.00
BMW Bank UT 0.5 9/25/2025	05580AXF6	9/25/2020	9/25/2025	0.500	249,000.00	0.00	0.00
Texas Exchange Bank TX 0.6 12/18/2025	88241TJR2	12/18/2020	12/18/2025	0.600	249,000.00	126.89	0.00
JPMorgan Chase OH 0.5 12/29/2025-21	48128UUZ0	12/29/2020	12/29/2025	0.500	249,000.00	0.00	0.00
Live Oak Banking NC 0.5 2/10/2026	538036NE0	2/10/2021	2/10/2026	0.500	249,000.00	105.74	0.00
Toyota Financial Savings NV 0.95 7/29/2026	89235MLE9	7/29/2021	7/29/2026	0.950	248,000.00	0.00	0.00
UBS Bank UT 0.95 8/25/2026	90348JS50	8/25/2021	8/25/2026	0.950	249,000.00	200.91	0.00
Capital One Bank VA 1.1 11/17/2026	14042TDW4	11/17/2021	11/17/2026	1.100	248,000.00	0.00	0.00
Sub Total/Average					**9,684,000.00**	**13,854.82**	**0.00**
US Agency							
FNMA 1.875 4/5/2022	3135G0T45	3/23/2020	4/5/2022	1.875	0.00	4,687.50	0.00
FNMA 1.375 9/6/2022	3135G0W33	11/8/2019	9/6/2022	1.375	500,000.00	0.00	0.00
FHLB 3 12/9/2022	3130AFE78	1/9/2019	12/9/2022	3.000	1,000,000.00	0.00	0.00
FFCB 0.125 5/3/2023-21	3133EMPA4	2/5/2021	5/3/2023	0.125	250,000.00	0.00	0.00
FFCB 2.125 6/5/2023	3133EKPT7	11/8/2019	6/5/2023	2.125	500,000.00	0.00	0.00
FHLMC 0.375 7/14/2023-22	3134GV5F1	7/14/2020	7/14/2023	0.375	250,000.00	0.00	0.00
FAMC 3.05 9/19/2023	3132X06C0	1/9/2019	9/19/2023	3.050	500,000.00	0.00	0.00
FFCB 0.25 9/21/2023-22	3133EMAM4	9/24/2020	9/21/2023	0.250	500,000.00	0.00	0.00
FFCB 0.27 11/3/2023-22	3133EMFN7	11/3/2020	11/3/2023	0.270	250,000.00	0.00	0.00
FHLMC 0.3 11/13/2023-22	3134GXAY0	11/13/2020	11/13/2023	0.300	250,000.00	0.00	0.00
FFCB 0.25 3/1/2024-21	3133EMSD5	3/24/2021	3/1/2024	0.250	250,000.00	0.00	0.00
FHLMC 0.5 5/20/2024-22	3134GVXR4	5/21/2020	5/20/2024	0.500	500,000.00	0.00	0.00
FAMC 2.15 6/5/2024	31422BGA2	11/8/2019	6/5/2024	2.150	500,000.00	0.00	0.00
FHLMC 0.45 7/8/2024-22	3134GV4S4	7/13/2020	7/8/2024	0.450	750,000.00	0.00	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
FHLMC 0.35 9/30/2024-22	3134GWVM5	9/30/2020	9/30/2024	0.350	250,000.00	0.00	0.00
FFCB 0.3 11/12/2024-21	3133EMQQ8	3/2/2021	11/12/2024	0.300	250,000.00	0.00	0.00
FFCB 1.32 1/21/2025	3133ENLU2	3/17/2022	1/21/2025	1.320	250,000.00	0.00	0.00
FFCB 0.32 2/3/2025-21	3133EMPV8	2/5/2021	2/3/2025	0.320	250,000.00	0.00	0.00
FHLB 0.625 2/24/2025-22	3130ANQ86	8/24/2021	2/24/2025	0.625	250,000.00	0.00	0.00
FFCB 0.43 3/3/2025	3133EMSJ2	3/3/2021	3/3/2025	0.430	250,000.00	0.00	0.00
FHLB 0.5 3/10/2025-21	3130ALDZ4	3/24/2021	3/10/2025	0.500	250,000.00	0.00	0.00
FHLMC 0.7 5/13/2025-21	3134GVSY5	5/13/2020	5/13/2025	0.700	500,000.00	0.00	0.00
FFCB 0.6 6/16/2025-22	3133EMH47	6/17/2021	6/16/2025	0.600	250,000.00	0.00	0.00
FNMA 0.6 7/29/2025-22	3136G4D75	12/18/2020	7/29/2025	0.600	250,000.00	0.00	0.00
FNMA 0.5 8/14/2025-23	3135G05S8	4/29/2021	8/14/2025	0.500	250,000.00	0.00	0.00
FNMA 0.375 8/25/2025	3135G05X7	11/12/2020	8/25/2025	0.375	250,000.00	0.00	0.00
FFCB 0.53 9/29/2025-21	3133EMBH4	6/17/2021	9/29/2025	0.530	500,000.00	0.00	0.00
FHLMC 0.4 9/30/2025-21	3134GWVP8	9/30/2020	9/30/2025	0.400	250,000.00	0.00	0.00
FHLMC 0.65 10/27/2025-21	3134GW5R3	5/25/2021	10/27/2025	0.650	375,000.00	1,218.75	0.00
FHLMC 0.45 10/29/2025-21	3134GW3J3	4/22/2021	10/29/2025	0.450	250,000.00	562.50	0.00
FNMA 0.54 11/3/2025-22	3135GA2G5	10/30/2020	11/3/2025	0.540	500,000.00	0.00	0.00
FNMA 0.56 11/17/2025-22	3135GA2Z3	11/17/2020	11/17/2025	0.560	325,000.00	0.00	0.00
FNMA 0.58 11/25/2025-22	3135GA5E7	11/30/2020	11/25/2025	0.580	250,000.00	0.00	0.00
FFCB 0.47 12/22/2025-22	3133EMLC4	12/22/2020	12/22/2025	0.470	250,000.00	0.00	0.00
FFCB 0.45 2/2/2026-23	3133EMPD8	3/2/2021	2/2/2026	0.450	300,000.00	0.00	0.00
FHLB 0.53 2/10/2026	3130AKWW2	8/19/2021	2/10/2026	0.530	310,000.00	0.00	0.00
FHLB 0.625 2/24/2026-21	3130AL7M0	3/2/2021	2/24/2026	0.625	250,000.00	0.00	0.00
FFCB 0.8 3/9/2026-23	3133EMSU7	9/24/2021	3/9/2026	0.800	250,000.00	0.00	0.00
FHLB 0.6 3/10/2026-21	3130ALFX7	3/10/2021	3/10/2026	0.600	250,000.00	0.00	0.00
FHLB 0.75 3/16/2026-21	3130ALF33	3/24/2021	3/16/2026	0.750	250,000.00	0.00	0.00
FHLB 0.85 3/30/2026-21	3130ANY79	11/10/2021	3/30/2026	0.850	250,000.00	0.00	0.00
FHLMC 1.03 4/29/2026-22	3130ALZM9	4/29/2021	4/29/2026	1.030	250,000.00	1,287.50	0.00
FHLB 0.875 5/26/2026-21	3130AMHB1	5/28/2021	5/26/2026	0.875	250,000.00	0.00	0.00
FFCB 0.9 6/15/2026-22	3133EMH21	6/17/2021	6/15/2026	0.900	250,000.00	0.00	0.00
FFCB 0.94 9/28/2026-22	3133EM6E7	9/28/2021	9/28/2026	0.940	250,000.00	0.00	0.00
FHLMC 0.8 10/27/2026-21	3134GW4C7	11/10/2021	10/27/2026	0.800	250,000.00	1,000.00	0.00
FFCB 1.46 11/30/2026-23	3133ENFP0	11/30/2021	11/30/2026	1.460	250,000.00	0.00	0.00
FFCB 1.68 3/10/2027	3133ENRD4	3/17/2022	3/10/2027	1.680	250,000.00	0.00	0.00
FHLB 3 4/21/2027-23	3130ARJF9	4/21/2022	4/21/2027	3.000	250,000.00	0.00	0.00
Sub Total/Average					**15,810,000.00**	**8,756.25**	**0.00**
US Treasury - No Limit							
T-Note 0.125 8/31/2023	91282CCU3	1/24/2022	8/31/2023	0.125	200,000.00	0.00	0.00

Description	CUSIP/Ticker	Settlement Date	Maturity Date	Coupon Rate	Ending Face Amount/Shares	Interest/Dividends	Sell Accrued Interest
T-Note 0.375 10/31/2023	91282CDD0	11/10/2021	10/31/2023	0.375	250,000.00	468.75	0.00
T-Note 0.125 2/15/2024	91282CBM2	8/19/2021	2/15/2024	0.125	250,000.00	0.00	0.00
T-Note 0.25 3/15/2024	91282CBR1	9/24/2021	3/15/2024	0.250	250,000.00	0.00	0.00
T-Note 0.25 6/15/2024	91282CCG4	9/24/2021	6/15/2024	0.250	250,000.00	0.00	0.00
T-Note 2.25 12/31/2024	9128283P3	4/13/2022	12/31/2024	2.250	250,000.00	0.00	0.00
T-Note 0.375 4/30/2025	912828ZL7	7/1/2021	4/30/2025	0.375	250,000.00	468.75	0.00
T-Note 0.375 4/30/2025	912828ZL7	8/19/2021	4/30/2025	0.375	250,000.00	468.75	0.00
T-Note 0.25 6/30/2025	912828ZW3	4/22/2021	6/30/2025	0.250	250,000.00	0.00	0.00
T-Note 0.375 1/31/2026	91282CBH3	4/29/2021	1/31/2026	0.375	250,000.00	0.00	0.00
T-Note 0.625 7/31/2026	91282CCP4	9/24/2021	7/31/2026	0.625	250,000.00	0.00	0.00
Sub Total/Average					**2,700,000.00**	**1,406.25**	**0.00**
US Bank MM Custody US Bank |							
Custodian MM	MM65000	7/31/2020	N/A	N/A	1,385,773.21	27.65	0.00
Sub Total/Average					**1,385,773.21**	**27.65**	**0.00**
Pacific Premier Bank							
Pacific Premier Bank | Checking Cash	MM0831	5/28/2020	N/A	N/A	7,600,606.90	0.00	0.00
Sub Total/Average					**7,600,606.90**	**0.00**	**0.00**
Total / Average					**38,024,044.13**	**24,045.82**	**0.00**

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS OPEB Trust
As of 4/30/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS OPEB Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	4,849.99	126,566.95	146,372.21
DFA Large Cap	233203868	Mutual Fund	3,811.96	89,562.61	92,782.75
Dodge & Cox International	256206103	Mutual Fund	806.94	30,872.99	35,980.78
Dodge & Cox Stock Fund	256219106	Mutual Fund	543.09	99,758.93	123,330.52
Doubeline Core Fix Income	258620301	Mutual Fund	10,434.86	115,297.48	104,035.31
Harbor Capital Appreciation	411512528	Mutual Fund	1,021.53	86,567.17	76,369.89
Hartford Schroders	41665X859	Mutual Fund	6,254.42	112,021.07	101,321.68
iShares Russell Mid Cap	464287499	Mutual Fund	2,052.00	94,719.01	147,723.48
iShares SP500	464287408	Mutual Fund	401.00	52,625.08	59,339.98
MFS International	552746356	Mutual Fund	960.11	33,877.94	36,205.27
PGIM Total Return Bond	74440B884	Mutual Fund	8,093.60	118,599.57	104,001.81
PIMCO	693390841	Mutual Fund	1,979.29	17,845.52	16,131.21
Pimco Total Return Fund	693390700	Mutual Fund	11,316.73	118,758.21	103,887.54
Price T Rowe Growth	741479406	Mutual Fund	993.11	76,841.30	76,043.06
Undiscovered	904504479	Mutual Fund	1,258.65	90,627.85	103,547.83
US Bank PARS - OPEB Trust MM	MM4900	Money Market	128,195.99	128,195.99	128,195.99
Vanguard Growth & Income	921913208	Mutual Fund	3,106.01	247,573.63	286,095.24
Vanguard Real Estate	922908553	Mutual Fund	391.00	32,179.79	40,640.54
Vanguard Short Term	922031836	Mutual Fund	8,401.89	89,058.54	85,446.89
Vanguard Small Cap Growth	922908595	Mutual Fund	448.00	121,737.01	98,900.48
Sub Total / Average PARS OPEB Trust			**195,320.17**	**1,883,286.64**	**1,966,352.46**
Total / Average			**195,320.17**	**1,883,286.64**	**1,966,352.46**

Mesa Water District
Portfolio Holdings
Investment Report | PARS Trust
Report Format: By CUSIP / Ticker
Group By: Portfolio Name
Average By: Market Value
Portfolio / Report Group: PARS Pension Trust
As of 4/30/2022

Description	CUSIP/Ticker	Security Type	Face Amount/Shares	Cost Value	Market Value
PARS Pension Trust					
Columbia Contrarian Fund	19766M709	Mutual Fund	35,643.69	954,970.89	1,075,726.16
DFA Large Cap	233203868	Mutual Fund	27,671.26	641,924.99	673,518.40
Dodge & Cox International	256206103	Mutual Fund	5,841.52	222,538.81	260,473.40
Dodge & Cox Stock Fund	256219106	Mutual Fund	3,991.90	750,294.66	906,518.51
Doubeline Core Fix Income	258620301	Mutual Fund	76,699.78	844,270.11	764,696.62
Harbor Capital Appreciation	411512528	Mutual Fund	7,468.04	631,225.27	558,311.56
Hartford Schroders	41665X859	Mutual Fund	45,509.01	797,799.85	737,245.97
iShares Russell Mid Cap	464287499	Mutual Fund	15,098.00	472,053.65	1,086,905.02
iShares SP500	464287408	Mutual Fund	2,941.00	384,111.58	435,209.18
MFS International	552746356	Mutual Fund	6,926.82	234,557.07	261,210.87
PGIM Total Return Bond	74440B884	Mutual Fund	59,337.08	865,714.69	762,481.77
PIMCO	693390841	Mutual Fund	14,546.24	130,876.87	118,551.94
Pimco Total Return Fund	693390700	Mutual Fund	82,996.03	865,637.68	761,903.55
Price T Rowe Growth	741479406	Mutual Fund	7,260.20	561,395.37	555,914.07
Undiscovered	904504479	Mutual Fund	9,251.36	634,283.08	761,109.47
US Bank PARS - Pension Trust MM	MM4901	Money Market	899,865.17	899,865.17	899,865.17
Vanguard Growth & Income	921913208	Mutual Fund	22,826.98	1,822,106.05	2,102,592.48
Vanguard Real Estate	922908553	Mutual Fund	2,872.00	226,871.15	298,515.68
Vanguard Short Term	922031836	Mutual Fund	61,679.85	653,236.44	627,284.05
Vanguard Small Cap Growth	922908595	Mutual Fund	3,294.00	906,094.88	727,183.44
Sub Total / Average PARS Pension Trust			**1,391,719.93**	**13,499,828.26**	**14,375,217.31**
Total / Average			**1,391,719.93**	**13,499,828.26**	**14,375,217.31**

Mesa Water District
Transactions Summary
Monthly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: PARS OPEB Trust
Begin Date: 03/31/2022, End Date: 04/30/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
iShares SP500	464287408	0.000	4/1/2022	N/A	14.00	2,173.15	0.00	2,173.15
Dodge & Cox Stock Fund	256219106	0.000	4/1/2022	N/A	11.223	2,767.24	0.00	2,767.24
Pimco Total Return Fund	693390700	0.000	4/1/2022	N/A	531.473	5,075.57	0.00	5,075.57
PGIM Total Return Bond	74440B884	0.000	4/1/2022	N/A	303.895	4,084.35	0.00	4,084.35
Vanguard Short Term	922031836	0.000	4/1/2022	N/A	1,168.50	12,023.87	0.00	12,023.87
Doubeline Core Fix Income	258620301	0.000	4/1/2022	N/A	460.091	4,743.54	0.00	4,743.54
iShares Russell Mid Cap	464287499	0.000	4/1/2022	N/A	142.00	11,058.45	0.00	11,058.45
Hartford Schroders	41665X859	0.000	4/14/2022	N/A	105.79	1,786.80	0.00	1,786.80
Vanguard Small Cap Growth	922908595	0.000	4/14/2022	N/A	3.00	721.67	0.00	721.67
MFS International	552746356	0.000	4/14/2022	N/A	16.898	662.91	0.00	662.91
Price T Rowe Growth	741479406	0.000	4/14/2022	N/A	19.848	1,676.74	0.00	1,676.74
Vanguard Short Term	922031836	0.000	4/14/2022	N/A	2,628.446	26,941.57	0.00	26,941.57
Harbor Capital Appreciation	411512528	0.000	4/14/2022	N/A	12.667	1,038.96	0.00	1,038.96
Pimco Total Return Fund	693390700	0.000	4/30/2022	N/A	25.285	232.12	0.00	232.12
PGIM Total Return Bond	74440B884	0.000	4/30/2022	N/A	20.851	267.93	0.00	267.93
Vanguard Short Term	922031836	0.000	4/30/2022	N/A	10.48	106.58	0.00	106.58
Sub Total / Average Buy					**5,474.447**	**75,361.45**	**0.00**	**75,361.45**
Dividend								
DFA Large Cap	233203868	0.000	4/1/2022	N/A	0.00	0.00	352.63	352.63
Doubeline Core Fix Income	258620301	0.000	4/1/2022	N/A	0.00	0.00	319.78	319.78
PIMCO	693390841	0.000	4/29/2022	N/A	0.00	0.00	70.47	70.47
Pimco Total Return Fund	693390700	0.000	4/30/2022	N/A	0.00	0.00	232.12	232.12
PGIM Total Return Bond	74440B884	0.000	4/30/2022	N/A	0.00	0.00	267.93	267.93
Vanguard Short Term	922031836	0.000	4/30/2022	N/A	0.00	0.00	106.58	106.58
Sub Total / Average Dividend					**0.00**	**0.00**	**1,349.51**	**1,349.51**
Sell								
PIMCO	693390841	0.000	4/1/2022	N/A	1,139.319	9,672.82	0.00	9,672.82
Hartford Schroders	41665X859	0.000	4/1/2022	N/A	162.29	2,862.80	0.00	2,862.80
Vanguard Growth & Income	921913208	0.000	4/1/2022	N/A	75.325	7,562.63	0.00	7,562.63
Vanguard Real Estate	922908553	0.000	4/1/2022	N/A	6.00	655.05	0.00	655.05
DFA Large Cap	233203868	0.000	4/1/2022	N/A	35.988	941.09	0.00	941.09

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Undiscovered	904504479	0.000	4/1/2022	N/A	51.491	4,481.26	0.00	4,481.26
Columbia Contrarian Fund	19766M709	0.000	4/1/2022	N/A	79.157	2,629.60	0.00	2,629.60
Vanguard Small Cap Growth	922908595	0.000	4/1/2022	N/A	33.00	8,188.09	0.00	8,188.09
Price T Rowe Growth	741479406	0.000	4/1/2022	N/A	41.28	3,741.21	0.00	3,741.21
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	13.767	1,207.503	0.00	1,207.50
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	58.908	5,166.817	0.00	5,166.82
Hartford Schroders	41665X859	0.000	4/6/2022	N/A	161.873	2,805.26	0.00	2,805.26
DFA Large Cap	233203868	0.000	4/6/2022	N/A	63.194	1,620.93	0.00	1,620.93
Dodge & Cox International	256206103	0.000	4/6/2022	N/A	15.507	723.56	0.00	723.56
MFS International	552746356	0.000	4/6/2022	N/A	25.731	1,026.67	0.00	1,026.67
iShares SP500	464287408	0.000	4/14/2022	N/A	12.00	1,876.86	0.00	1,876.86
Undiscovered	904504479	0.000	4/14/2022	N/A	21.099	1,798.89	0.00	1,798.89
Dodge & Cox Stock Fund	256219106	0.000	4/14/2022	N/A	15.968	3,889.33	0.00	3,889.33
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	15.113	140.702	0.00	140.70
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	15.968	148.662	0.00	148.66
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	17.405	162.041	0.00	162.04
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	18.283	170.215	0.00	170.22
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	18.547	172.673	0.00	172.67
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	19.501	181.554	0.00	181.55
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	20.001	186.209	0.00	186.21
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	105.832	985.296	0.00	985.30
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	112.79	1,050.075	0.00	1,050.08
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	200.914	1,870.509	0.00	1,870.51
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	364.557	3,394.025	0.00	3,394.03
Dodge & Cox International	256206103	0.000	4/14/2022	N/A	3.957	184.00	0.00	184.00
PGIM Total Return Bond	74440B884	0.000	4/14/2022	N/A	40.994	534.152	0.00	534.15
PGIM Total Return Bond	74440B884	0.000	4/14/2022	N/A	579.768	7,554.378	0.00	7,554.38
Doubeline Core Fix Income	258620301	0.000	4/14/2022	N/A	47.142	476.134	0.00	476.13
Doubeline Core Fix Income	258620301	0.000	4/14/2022	N/A	810.543	8,186.486	0.00	8,186.49
Sub Total / Average Sell					**4,403.212**	**86,247.481**	**0.00**	**86,247.48**

Mesa Water District
Transactions Summary
Monthly Treasurer's Status Report - Investment Activity
Group By: Action
Portfolio / Report Group: PARS Pension Trust
Begin Date: 03/31/2022, End Date: 04/30/2022

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Buy								
Dodge & Cox Stock Fund	256219106	0.000	4/1/2022	N/A	201.306	49,635.91	0.00	49,635.91
Pimco Total Return Fund	693390700	0.000	4/1/2022	N/A	2,092.315	19,981.61	0.00	19,981.61
PGIM Total Return Bond	74440B884	0.000	4/1/2022	N/A	1,123.236	15,096.29	0.00	15,096.29
Vanguard Short Term	922031836	0.000	4/1/2022	N/A	7,816.58	80,432.59	0.00	80,432.59
Doubeline Core Fix Income	258620301	0.000	4/1/2022	N/A	1,452.751	14,977.86	0.00	14,977.86
iShares Russell Mid Cap	464287499	0.000	4/1/2022	N/A	908.00	70,711.77	0.00	70,711.77
Hartford Schroders	41665X859	0.000	4/14/2022	N/A	772.109	13,040.95	0.00	13,040.95
Vanguard Small Cap Growth	922908595	0.000	4/14/2022	N/A	24.00	5,773.29	0.00	5,773.29
MFS International	552746356	0.000	4/14/2022	N/A	123.368	4,839.71	0.00	4,839.71
Price T Rowe Growth	741479406	0.000	4/14/2022	N/A	146.975	12,416.45	0.00	12,416.45
Vanguard Short Term	922031836	0.000	4/14/2022	N/A	19,374.664	198,590.31	0.00	198,590.31
Harbor Capital Appreciation	411512528	0.000	4/14/2022	N/A	94.243	7,729.79	0.00	7,729.79
Sub Total / Average Buy					**34,129.547**	**493,226.53**	**0.00**	**493,226.53**
Dividend								
DFA Large Cap	233203868	0.000	4/1/2022	N/A	0.00	0.00	2,618.61	2,618.61
Doubeline Core Fix Income	258620301	0.000	4/1/2022	N/A	0.00	0.00	2,406.96	2,406.96
PIMCO	693390841	0.000	4/29/2022	N/A	0.00	0.00	519.59	519.59
Pimco Total Return Fund	693390700	0.000	4/30/2022	N/A	0.00	0.00	1,709.64	1,709.64
PGIM Total Return Bond	74440B884	0.000	4/30/2022	N/A	0.00	0.00	1,970.97	1,970.97
Vanguard Short Term	922031836	0.000	4/30/2022	N/A	0.00	0.00	784.37	784.37
Sub Total / Average Dividend					**0.00**	**0.00**	**10,010.14**	**10,010.14**
Sell								
PIMCO	693390841	0.000	4/1/2022	N/A	8,888.698	75,465.04	0.00	75,465.04
Hartford Schroders	41665X859	0.000	4/1/2022	N/A	1,536.357	27,101.34	0.00	27,101.34
iShares SP500	464287408	0.000	4/1/2022	N/A	114.00	17,688.71	0.00	17,688.71
Vanguard Growth & Income	921913208	0.000	4/1/2022	N/A	671.187	67,387.17	0.00	67,387.17
Vanguard Real Estate	922908553	0.000	4/1/2022	N/A	75.00	8,188.08	0.00	8,188.08
Vanguard Real Estate	922908553	0.000	4/1/2022	N/A	107.00	11,681.66	0.00	11,681.66
DFA Large Cap	233203868	0.000	4/1/2022	N/A	564.779	14,768.97	0.00	14,768.97
Undiscovered	904504479	0.000	4/1/2022	N/A	488.132	42,482.13	0.00	42,482.13
Columbia Contrarian Fund	19766M709	0.000	4/1/2022	N/A	821.878	27,302.79	0.00	27,302.79

Description	CUSIP/Ticker	YTM @ Cost	Settlement Date	Maturity Date	Face Amount/Shares	Principal	Interest/Dividends	Total
Vanguard Small Cap Growth	922908595	0.000	4/1/2022	N/A	285.00	70,715.38	0.00	70,715.38
Dodge & Cox International	256206103	0.000	4/1/2022	N/A	130.298	6,199.58	0.00	6,199.58
MFS International	552746356	0.000	4/1/2022	N/A	153.735	6,197.06	0.00	6,197.06
Price T Rowe Growth	741479406	0.000	4/1/2022	N/A	397.168	35,995.34	0.00	35,995.34
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	59.518	5,220.323	0.00	5,220.32
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	269.101	23,602.847	0.00	23,602.85
Harbor Capital Appreciation	411512528	0.000	4/1/2022	N/A	269.309	23,621.09	0.00	23,621.09
Hartford Schroders	41665X859	0.000	4/6/2022	N/A	1,177.456	20,405.31	0.00	20,405.31
DFA Large Cap	233203868	0.000	4/6/2022	N/A	456.868	11,718.66	0.00	11,718.66
Dodge & Cox International	256206103	0.000	4/6/2022	N/A	113.703	5,305.38	0.00	5,305.38
MFS International	552746356	0.000	4/6/2022	N/A	187.838	7,494.74	0.00	7,494.74
iShares SP500	464287408	0.000	4/14/2022	N/A	101.00	15,796.89	0.00	15,796.89
Undiscovered	904504479	0.000	4/14/2022	N/A	19.154	1,633.071	0.00	1,633.07
Undiscovered	904504479	0.000	4/14/2022	N/A	134.523	11,469.439	0.00	11,469.44
Dodge & Cox Stock Fund	256219106	0.000	4/14/2022	N/A	116.254	28,315.99	0.00	28,315.99
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	780.299	7,264.584	0.00	7,264.58
Pimco Total Return Fund	693390700	0.000	4/14/2022	N/A	5,712.081	53,179.476	0.00	53,179.48
Dodge & Cox International	256206103	0.000	4/14/2022	N/A	29.795	1,385.47	0.00	1,385.47
PGIM Total Return Bond	74440B884	0.000	4/14/2022	N/A	4,398.768	57,315.95	0.00	57,315.95
Doubeline Core Fix Income	258620301	0.000	4/14/2022	N/A	6,288.146	63,510.27	0.00	63,510.27
Hartford Schroders	41665X859	0.000	4/22/2022	N/A	463.307	7,519.47	0.00	7,519.47
DFA Large Cap	233203868	0.000	4/22/2022	N/A	351.133	8,757.26	0.00	8,757.26
Dodge & Cox International	256206103	0.000	4/22/2022	N/A	89.716	4,065.93	0.00	4,065.93
MFS International	552746356	0.000	4/22/2022	N/A	130.212	4,989.72	0.00	4,989.72
Price T Rowe Growth	741479406	0.000	4/22/2022	N/A	39.465	3,141.81	0.00	3,141.81
Harbor Capital Appreciation	411512528	0.000	4/22/2022	N/A	40.595	3,170.06	0.00	3,170.06
Sub Total / Average Sell					**35,461.473**	**780,056.99**	**0.00**	**780,056.99**

MONTHLY COMMITTEE

Major Staff Projects

Title	Comments	Status
Month End Closing	Training	In Process
Fiscal Year 2022	Interim Audit	In Process
Capital Charges		In Process

MesaWater DISTRICT®

Dedicated to Satisfying our Community's Water Needs

MEMORANDUM

TO: Board of Directors
FROM: Stacy Taylor, Water Policy Manager
DATE: June 28, 2022
SUBJECT: State Advocacy Update

RECOMMENDATION

Receive and file the State Advocacy Update.

STRATEGIC PLAN

Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION/DISCUSSION

This item is provided at the monthly Board of Directors Committee meeting.

DISCUSSION

An updated State Advocacy report will be provided at the June 28, 2022 meeting.

FINANCIAL IMPACT

In Fiscal Year 2022, $235,000 is budgeted for Support Services; $210,940 has been spent to date.

ATTACHMENTS

None.

MEMORANDUM

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors
FROM: Stacy Taylor, Water Policy Manager
DATE: June 28, 2022
SUBJECT: Orange County Update

RECOMMENDATION

Receive and file the Orange County Update.

STRATEGIC PLAN

Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION/DISCUSSION

This item is provided at the monthly Board of Directors Committee meeting.

DISCUSSION

Mesa Water District's (Mesa Water®) governmental relations program includes monitoring local and regional political issues and policy-setting authorities (i.e., County of Orange, Orange County Local Agency Formation Commission, etc.). An updated Orange County report will be provided at the June 28, 2022 meeting.

FINANCIAL IMPACT

In Fiscal Year 2022, $235,000 is budgeted for Support Services; $210,940 has been spent to date.

ATTACHMENTS

None.

MEMORANDUM

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors
FROM: Celeste Carrillo, Public Affairs Coordinator
DATE: June 28, 2022
SUBJECT: Outreach Update

RECOMMENDATION

Receive and file the Outreach Update.

STRATEGIC PLAN

Goal #4: Increase public awareness about Mesa Water and about water.
Goal #6: Provide outstanding customer service.
Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION/DISCUSSION

This item is provided at the monthly Board of Directors Committee meeting.

DISCUSSION

Mesa Water District's (Mesa Water®) outreach program aims to connect Mesa Water with its constituents in order to achieve Goal #4 of the Board of Directors' (Board) Strategic Plan. Outreach activities are also designed to achieve the Strategic Plan goals related to customer service and/or regional water issues involvement by educating and informing the District's constituents about Mesa Water, water issues, and water in general. Mesa Water's constituents include external audiences, such as customers, community members, elected officials, industry colleagues, media, water districts and special districts – as well as internal audiences, such as staff, retirees and Board members.

Upcoming Fiscal Year 2022 Events

Concerts in the Park – Fairview Park, 2525 Placentia Avenue, Costa Mesa: Tuesday, July 12, 19 and 26, Preshow – 5:00 p.m., Music – 6:00 p.m.

The benefits of Mesa Water's outreach program include:

- Informing constituents about Southern California's perpetual drought, the historical drought facing California, and the importance of developing local and cost-effective sources of safe, reliable water for Mesa Water's service area and the region at large;
- Educating constituents about the importance of water and water stewardship, in order to sustain Southern California's population, quality of life, business, and economy;
- Educating constituents about Mesa Water's stewardship of ratepayer funds and financial responsibility to fund, invest in, and save for the current and future provision of safe and reliable water for the District's service area;

- Informing constituents of the District's infrastructure improvements to ensure water quality and water reliability for its service area;
- Learning from constituents and evolving as a well-informed Board of Directors;
- Promoting water use efficiency to Mesa Water's customers and community members to help them save water, money, and the environment;
- Ensuring, for public health and safety reasons, that Mesa Water customers and community members identify the District as their water provider and as the source of information about water in emergency situations;
- Supporting Mesa Water's service area as an actively involved participant in programs that provide added value and benefits to the community;
- Informing the media of Mesa Water's activities that benefit the District's customers and community;
- Empowering Mesa Water's Board and staff with information that will help them provide the best possible service to the District's customers and community members; and,
- Strengthening Mesa Water's industry relations to provide opportunities for improving the District's business and operations -- including the areas of financial and human resources strength, infrastructure and technological innovation, and setting/supporting policies that have a positive impact on Mesa Water's service area -- so that the District can continue to provide safe, high-quality, reliable, and affordable water to its customers.

FINANCIAL IMPACT

In Fiscal Year 2022, $590,920 is budgeted for Public Affairs Support Services; $461,505 has been spent to date.

ATTACHMENTS

None.

MEMORANDUM

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors

FROM: Andrew D. Wiesner, P.E., Principal Engineer

DATE: June 28, 2022

SUBJECT: CA Drought Response – Compliance with State Water Board Regulations

RECOMMENDATION

Receive the presentation.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #3: Be financially responsible and transparent.
Goal #4: Increase public awareness about Mesa Water and about water.
Goal #5: Provide outstanding customer service.
Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTIONS

At its May 14, 2015 meeting, the Board of Directors (Board) conducted a noticed public hearing and adopted Ordinance No. 26 Water Conservation and Water Supply Emergency Program. Rescinding Ordinance Nos. 8, 19, and 24 with the following amendments:

- combining the language regarding pools and spas into Section 9.4 which changes the level from level 2 to level 3; and
- Section 9.5 - "No New Potable Water Service"; this restriction would not apply to properties with existing meters.

At its June 10, 2021 meeting, the Board conducted a noticed public hearing and adopted Ordinance No. 32 Making Findings, Adopting the Mesa Water District Water Shortage Response Ordinance Rescinding Ordinance No. 26 and Taking Related Actions, with modifications; Resolution No. 1541 Approving the Adoption of the District's 2020 Urban Water Management Plan (UWMP); Resolution No. 1542 Approving the Adoption of the 2020 Water Shortage Contingency Plan (WSCP), per Water Code Section 10632; and Resolution No. 1543 Approving the Amendment to the 2015 UWMP.

At its February 9, 2022 meeting, the Board adopted Resolution No. 1562 Approving the Adoption of the 2020 WSCP as Amended and Ordinance No. 33 Making Findings, Adopting the Mesa Water District Water Shortage Response Ordinance Rescinding Ordinance No. 32 and Taking Related Actions.

At its June 8, 2022 meeting, the Board directed staff to implement water conservation measures, with modified outreach messaging, required by the State Water Resources Control Board's (SWRCB) Resolution No. 2022-0018.

BACKGROUND

In May 2015, the Board adopted Ordinance No. 26 in response to emergency regulations adopted by the SWRCB. The emergency regulations were adopted in response to the drought state of

emergency declared in January 2014. These regulations included an obligation to fix leaks, prohibited irrigation on medians, designated watering days, drinking water served on request, and several other restrictions.

Since the Board adopted Ordinance No. 26 in 2015, the Department of Water Resources (DWR) has added new requirements to the UWMP reporting process in conformance with state legislation. These new requirements include the WSCP and six levels of water shortage. The District's 2020 WSCP was adopted in June 2021 and included water conservation measures for the six levels of water shortage. To comply with the new requirements of the WSCP, Ordinance No. 26 was rescinded and Ordinance No. 32 was adopted in June 2021.

During the implementation of Ordinance No. 32, it was identified that an obligation to fix leaks should be included in the permanent water conservation requirements. To include an obligation to fix leaks in the permanent water conservation requirements, Ordinance No. 32 was rescinded and Ordinance No. 33 was adopted in February 2022. The 2020 WSCP was also amended in February 2022 to be consistent with Ordinance No. 33.

On May 24, 2022, the SWRCB adopted Resolution No. 2022-0018, an Emergency Regulation to reduce water demand and improve water conservation in response to California's drought. The Emergency Regulation requires all urban water suppliers statewide that have submitted a water shortage contingency plan to DWR to:

1. Implement by June 10, 2022, at a minimum, all demand reduction actions (with limited exceptions) identified in the supplier's WSCP for a shortage level of ten to twenty percent (Level 2 Shortage Response); and,
2. Prohibit the irrigation of non-functional (ornamental only) turf with potable water at commercial, industrial, and institutional sites (except to the extent necessary to ensure the health of trees and other perennial non-turf plantings, or to address an immediate health and safety need).

Urban water suppliers must comply with the Emergency Regulation regardless of whether or not an actual water shortage exists for the supplier's service area.

DISCUSSION

SWRCB Resolution No. 2022-0018 requires urban water suppliers to implement all water demand reduction actions that are identified in their WSCPs for a shortage level of ten to twenty percent (Level 2 Shortage Response). At the June 8, 2022 Mesa Water District (Mesa Water®) Board meeting, staff presented the demand reduction actions included in a Level 2 shortage response and was asked to evaluate whether these actions are appropriate given the current requirements. Staff recommends the current Level 2 demand reduction actions as they are the minimal, credible response actions to meet the requirements of Resolution No. 2022-0018 and the WSCP.

In the development of the 2020 WSCP as amended and Ordinance No. 33, the 2015 Water Conservation Ordinance (Ordinance No. 26) was used as a basis. Each of the demand reduction actions included in Ordinance No. 26 were evaluated to determine if they were still needed and, if so, where they best fit into the WSCP as amended. The WSCP as amended was required to have

six levels of water shortage response up to greater than 50 percent reduction. Each level was required to have a minimum of a 10 percent reduction in water demands. Ordinance No. 26 included three levels up to a 50 percent reduction. Due to the differences in Ordinance No. 26 and the new requirements, Ordinance No. 26 needed to be updated. A summary of demand reduction actions contained in the original Ordinance No. 26 and how they fit into the new WSCP is described in Table 1. The WSCP as amended can be found in Attachment C.

Table 1. Ordinance No. 26 Crosswalk to the 2020 WSCP

Ordinance No. 26 Shortage Levels	**2020 WSCP Shortage Level**
Permanent (Level 0)	
Limits on Water Hours (5pm to 8am)	Level 1
No Excessive Water Flow or Runoff	Level 0 (State mandate)
No Washing Down Hard or Paved Surfaces	Level 0 (State mandate)
Obligation to Fix Leaks (within 7 days)	Level 0
Re-circulating Water Required for Water Fountains and Decorative Water Features	Level 0 (State mandate)
Limits on Washing Vehicles	Level 0 (State mandate)
Drinking Water Served Upon Request Only	Removed
Commercial Lodging Establishments Must Provide Guests Option to Decline Daily Linen Services	Removed
No Installation of Single Pass Cooling Systems	Level 0
No Installation of Non-re-circulating in Commercial Car Wash and Laundry Systems	Level 0
Restaurants Required to Use Water Conserving Dish Wash Spray Valves	Removed
Commercial Car Wash Systems must utilize re-circulating water systems	Level 0
Recycled Water Use Required if Available	Removed
Water Recycling – New Service Evaluation	Removed
Level 1 Shortage (0 to 20%)	
Designated Watering Days (3 days/week)	Level 3
Obligation to Fix Leaks (within 3 days)	Level 2
No Irrigation During Rain Events	Level 0 (State mandate)
Level 2 Shortage (20 to 30%)	
Designated Watering Days (2 days/week)	Level 4
Obligation to Fix Leaks (within 2 days)	Level 3
No Filling Ornamental Fountains, Lakes, and Ponds	Level 3
Level 3 Shortage (50% reduction)	
No Watering or Irrigating	Level 6
Obligation to Fix Leaks (within 1 day)	Level 4
Car Washing at Commercial Facilities Only	Level 5
No Filling of Residential Swimming Pools	Level 5
No New Potable Water Service	Removed

As shown in Table 1, several demand reduction actions that were originally included in Ordinance No. 26 were removed in the 2020 WSCP. Additionally, many demand reduction actions were moved to higher levels of shortage, resulting in an overall reduction in water restriction requirements.

Mesa Water's WSCP specifies the following three demand reduction measures in accordance with a Level 2 Shortage Response:

1. **Limits on Watering Hours:** Watering or irrigating of lawn, landscape, or other vegetated area with potable water is prohibited between the hours of 8:00 a.m. and 5:00 p.m. Pacific Standard Time on any day. Hand-held watering cans, buckets, or similar containers reasonably used to convey water for irrigation purposes are not subject to these time restrictions. Similarly, a hand-held hose equipped with a fully functioning, positive self-closing water shut-off nozzle or device may be used during the otherwise restricted period. If necessary, and for very short periods of time for the express purpose of adjusting or repairing it, one may operate an irrigation system during the otherwise restricted period.
2. **Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of four (4) days per week. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.
3. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within 72 hours of notification by Mesa Water, or turned off, unless other arrangements are made with the District.

While there are many other demand reduction actions that could be included in the WSCP to meet the reduction requirements of each level, such as expanded public information campaigns, improved customer billing, drought rate structures, and reduced system leakage, most of these actions have minimal impacts or are not reliable. Additionally, Mesa Water's response is similar, but less restrictive than many Orange County urban water suppliers. Many water suppliers are restricting watering to 2 or 3 days and requiring leaks to be fixed within 2 days or relying on their rate structure to reduce demands. Therefore, staff recommends the current Level 2 demand reduction actions as they are the minimal, credible response actions to meet the requirements of Resolution No. 2022-0018 and the District's WSCP.

FINANCIAL IMPACT

Potential reduced revenues due to water conservation will be covered by Mesa Water's rate stabilization designated reserve fund.

ATTACHMENTS

Attachment A: Ordinance No. 26
Attachment B: Ordinance No. 33
Attachment C: Resolution No. 1562 (Mesa Water 2020 WSCP as Amended)
Attachment D: State Water Resources Control Board Resolution No. 2022-0018

ORDINANCE NO. 26

ORDINANCE OF THE MESA WATER DISTRICT BOARD OF DIRECTORS ADOPTING THE MESA WATER DISTRICT WATER CONSERVATION AND WATER SUPPLY EMERGENCY PROGRAM RESCINDING ORDINANCE NOS. 8, 19, 24

WHEREAS, the Mesa Water District (Mesa Water® or District) is a county water district organized and operating according to California law; and

WHEREAS, water is a limited natural resource and the District desires to use this natural resource in the most efficient manner possible; and

WHEREAS, Mesa Water District has the authority to adopt water conservation requirements and programs to promote and effectuate wise water use and avoid water wastage; and

WHEREAS, the Board of Directors (Board) of Mesa Water District has previously adopted, and supplemented, Ordinance No. 8 adopting an Emergency Water Conservation Program, which was adopted on March 21, 1991 (Ordinance No.8); and

WHEREAS, Ordinance No. 8 was further supplemented by the adoption of Ordinance No. 19 on December 10, 2007, and Ordinance No. 24 on August 28, 2014 (Ordinance No. 8, as supplemented, Ordinance Nos. 19 and 24 are collectively in certain cases referred to herein as the "Prior Ordinances"); and

WHEREAS, the District desires to repeal its existing Water Conservation Programs and establish an updated and consolidated Water Conservation and Water Supply Emergency Program (Conservation Program) to conform to additional State Water Resources Control Board (SWRCB) Regulations; and

WHEREAS, periodic droughts are a historic fact in the State of California; and

WHEREAS, the District's service area is located in a region with a Mediterranean climate, densely populated demographics, and a mixed economic base of residential, commercial, industrial, and institutional consumers; and

WHEREAS, Mesa Water District derives the water which it delivers to its customers from local groundwater and supplemental waters imported from outside District boundaries; and

WHEREAS, the quality and quantity of supplemental imported water is under the control of other agencies, and may be subject to conditions beyond the control of those other agencies or Mesa Water District; and

WHEREAS, pursuant to California Water Code Section 31026, Mesa Water District may restrict the use of water it provides during any emergency caused by drought, or other threatened or existing water shortage, and to prohibit the wastage of water or the use of water it provides during such periods, for any purpose other than domestic uses or such other restricted uses as may be determined to be necessary by the District and may prohibit use of water it provides during such periods for specific uses which it may from time to time find to be non-essential; and

WHEREAS, pursuant to the applicable provisions of California law, Mesa Water District is required to periodically prepare and update an Urban Water Management Plan in order to address certain water supply and planning requirements; and

WHEREAS, Water Code Section 10632 requires the Urban Water Management Plan to provide an urban water shortage contingency analysis, which includes stages of action to be undertaken by an urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions which are applicable to each stage; and

WHEREAS, pursuant to California Water Code Sections §§31020, and 375-377, inclusive, Mesa Water District may establish additional guidelines, surcharges, cost recovery systems, enforcement procedures, and other rules and regulations to assist in the conservation of water; and

WHEREAS, the Board of Directors of Mesa Water District finds and determines that a water shortage or threat of a water shortage may be found to exist based upon the occurrence of one or more of the following conditions or circumstances:

A. A general water supply shortage due to increased demand and/or limited supplies.

B. Distribution or storage facilities of Mesa Water District or any agency supplying water to the District, become inadequate or are restricted.

C. A major failure of the supply, storage, and/or distribution facilities of Mesa Water District or any agency supplying water to the District.

D. Contamination of the water supply, storage, and/or distribution facilities of Mesa Water District or any agency supplying water to the District.

E. Acts of nature which in the opinion of Mesa Water District constitute an emergency situation or which require special water conservation actions.

WHEREAS, prior to the adoption of this Ordinance, the Board has conducted a noticed public hearing to receive public comments concerning the subject matter hereof; and

WHEREAS, the purpose of this Ordinance is to adopt and enact the Conservation Program within the District's service area.

NOW, THEREFORE, BE IT ORDAINED BY THE MESA WATER DISTRICT BOARD OF DIRECTORS AS FOLLOWS:

Section 1. **Recitals.** The foregoing recitals are true and correct and are incorporated herein by this reference.

Section 2. **Findings.** The Board hereby finds and determines as follows:

a. A reliable minimum supply of potable water is essential to the public health, safety, and welfare of the people, and economy of the southern California region.

b. Water management that includes active water use efficiency measures not only in times of drought, but at all times, is essential to ensure a reliable minimum supply of water to meet current and future water supply needs.

c. California Water Code Section 375 authorizes water suppliers to adopt and enforce a comprehensive water conservation program to reduce water consumption and conserve supplies.

d. Mesa Water District has the authority, pursuant to California Water Code Sections 31026-31029 to take action(s) relative to the use and conservation of water within its service area.

e. The adoption and enforcement of a permanent water conservation program is necessary to help to manage the District's potable water supply in the short and long-term and to avoid or minimize the effects of periodic drought and shortage conditions within, or affecting its service area and potable water supplies. Such program is essential to ensure a reliable and sustainable minimum supply of water for the public health, safety and welfare.

f. The Board does hereby find that the following circumstances may constitute an emergency condition or a threatened or existing water shortage condition within or affecting Mesa Water District:

    i. A general water supply shortage due to increased demand and/or limited supplies.

ii. Distribution or storage facilities of Mesa Water District or any agency supplying water to the District, become inadequate.

iii. A major failure of the supply, storage, and/or distribution facilities of Mesa Water District or any agency supplying water to its service area.

iv. Contamination of the water supply, storage, and/or distribution facilities of Mesa Water District or any agency supplying water to its service area.

v. Acts of nature which in the opinion of the District constitute an emergency situation.

Section 3. Program Designation; Purpose; Intent and Integration.

a. The purpose of the Conservation Program enacted by this Ordinance is to establish a water conservation and water supply emergency program that will reduce water consumption within the District's service area through water conservation, enable effective water supply planning, assure reasonable and beneficial use of water, prevent waste of water, and maximize the efficient use of water within the District's service area to avoid and minimize the effect and hardship of water shortages to the greatest extent possible.

b. This Conservation Program enacted by this Ordinance establishes permanent water conservation standards intended to alter behavior related to water use efficiency at all times and further establishes three levels of water supply shortage response actions to be implemented during times of declared water shortage or declared water shortage emergency, with increasing restrictions on water use in response to worsening drought or emergency conditions and decreasing supplies as determined by the Board.

c. This Ordinance, and the Conservation Program enacted hereby, is intended solely to further the conservation of water. It is not intended to implement any provision of federal, State, or local statutes, ordinances, or regulations relating to protection of water quality or control of drainage or runoff. This Ordinance, and the Conservation Program enacted hereby, shall not act to repeal, supersede or amend any federal, State or local law, ordinance or regulation relating to protection of water quality or control of drainage or runoff (including, but not limited to, any and all NPDES permits or requirements which

may be applicable in such instance) or exempt any person or party from compliance therewith.

d. Mesa Water's prior Water Conservation Programs, as adopted, supplemented, and amended pursuant to the Prior Ordinances, are recinded and superseded upon this Ordinance becoming effective.

Section 4. **Conservation Program Provisions.**

a. The Conservation Program provisions are set forth in Exhibit A to this Ordinance and are incorporated herein by this reference.

b. The Conservation Program shall be referred to in Mesa Water's Rules and Regulations for Water Service.

c. The Board reserves the right to amend, revise, and/or supplement this Ordinance and/or the Conservation Program provisions in the future based upon the District's needs, circumstances and requirements.

d. This Ordinance and the Conservation Program are adopted by this Board pursuant to the provisions and authority set out in the California Constitution and California law as referenced herein.

e. All penalties set forth in the Conservation Program are administrative and regulatory penalties and are not fees or charges for water service or water capacity.

Section 5. **CEQA Exemption.**

The Board finds that this Ordinance, the Water Conservation and Water Supply Emergency Program (Conservation Program), and actions taken hereafter pursuant to the Conservation Program are exempt from the California Environmental Quality Act as specific actions necessary to prevent or mitigate an emergency pursuant to 14 California Code of Regulations, Sections 15269, 15273, and 15321, and the applicable statues of the Public Resources Code.

The General Manager is hereby authorized and directed to file a Notice of Exemption as soon as possible following the adoption of this Ordinance.

Section 6. **Terms and Provisions.** The terms and provisions of this Ordinance, and the Conservation Program enacted hereby, shall be subject to, and shall be interpreted pursuant to, State law.

Section 7. **Notice and Provisions:** Notice of the adoption of this Ordinance, and the provisions hereof, shall be provided as set out in State law, including, but not limited to, Water Code Section 31027.

Section 8. **Other Actions.** Mesa Water District staff and officers are hereby authorized and directed to take such other and further action(s) as may be reasonably necessary to carry out the determinations, findings and directives set forth herein, and in the Conservation Program enacted hereby, within the limits set forth by, and in accordance with, direction of the Board.

Section 9. **Effective Date.** This Ordinance No. 26, and the Conservation Program enacted hereby, shall take effect on May 14, 2015.

ADOPTED, SIGNED, AND APPROVED this 14th day of May 2015 by a roll call vote:

AYES: DIRECTORS: Atkinson, Bockmiller, Fisler, Temianka
NOES: DIRECTORS:
ABSENT: DIRECTORS: Dewane
ABSTAIN: DIRECTORS:

Shawn Dewane
President, Board of Directors

ATTEST:

Coleen L. Monteleone
District Secretary

ORDINANCE NO. 26

EXHIBIT A

ORDINANCE OF THE MESA WATER DISTRICT BOARD OF DIRECTORS ADOPTING THE MESA WATER DISTRICT WATER CONSERVATION AND WATER SUPPLY EMERGENCY PROGRAM RESCINDING ORDINANCE NOS. 8, 19, 24

Mesa Water District
Water Conservation and
Water Supply Emergency Program

Adopted: May 14, 2015

Table of Contents

Section 1: **Title.** This program is designated as the Water Conservation and Water Supply Emergency Program (Conservation Program).

Section 2. **Authority.** The Conservation Program is adopted pursuant to California law and the provisions of Mesa Water District Ordinance No. 26. The General Manager is hereby authorized and directed to implement the provisions of this Conservation Program as provided for herein.

Section 3. **Definitions.** The following words and phrases whenever used in this Conservation Program have the meaning(s) defined in this section:

a. **"Board"** means the Board of Directors of Mesa Water District.

b. **"Conservation Program"** means the Mesa Water District Water Conservation and Water Supply Emergency Program.

c. **"Conservation Fee"** means any monetary fee assessed by Mesa Water District for violations of the Conservation Program.

d. **"Customer"** means any person, persons, firm, corporation, association, or agency receiving water or services from Mesa Water District.

e. **"General Manager"** means the duly appointed and acting General Manager of the Mesa Water District, or an authorized agent.

f. **"Landscape Irrigation System"** means an irrigation system with pipes, hoses, spray heads, or sprinkling devices that are operated by hand or through an automated system.

g. **"Large Landscape Areas"** means a lawn, landscape, or other vegetated area, or combination thereof, equal to more than 5,000 square feet of irrigable land.

h. **"Mesa Water® or District"** means the Mesa Water District, a county water district organized pursuant to California Water Code Sections 33200 and following and operating pursuant to Water Code Sections 30000 and following. References to Mesa Water® or the District also include its Directors, officers, agents, and employees, as applicable.

i. **"Person"** means any natural person or persons, corporation, public or private entity, governmental agency or institution, including Mesa Water District, or any other user of water provided by the District.

j. **"Potable Water"** means water that is suitable for drinking.

k. **"Recycled Water"** means the reclamation and reuse of non-potable water for beneficial use as defined in Title 22 of the California Code of Regulations.

l. **"Single Pass Cooling Systems"** means equipment where water is circulated only once to cool equipment before being disposed.

m. **"Water Conservation Coordinator"** means the person (who may be an officer or employee of Mesa Water District) charged with the principal enforcement of this Conservation Program. The Water Conservation Coordinator may be the General Manager or another person so designated in writing by the General Manager.

n. **"Water Flow Restrictor"** means a device that is inserted into the service connection and is designed to limit the water flow capacity.

Section 4. Application.

a. The provisions of this Conservation Program apply to any customer, Person, and property using water provided by Mesa Water District.

b. The provisions of this Conservation Program do not apply to uses of water necessary to protect public health and safety or for essential government services, such as police, fire, and other similar emergency services.

c. The provisions of this Conservation Program do not apply to the use of Recycled Water, with the exception of Sections 6(b), 6(d), 6(m), 6(n), 7(b)(2), 8(b)(2), and 9(b)(2).

d. The provisions of this Conservation Program do not apply to the use of water by commercial nurseries and commercial growers to sustain plants, trees, shrubs, crops or other vegetation intended for commercial sale, with the exception of Section 6(b).

e. This Conservation Program is intended solely to further the conservation of water.

Section 5. Procedures for Determination of Water Supply Shortage and Level Implementation.

The existence of a Level 1, Level 2 or Level 3 Water Supply Shortage condition may be declared by resolution adopted by the Board at a regular, adjourned regular, or special Board meeting.

The Board shall determine the extent of the Water Supply Shortage condition, and the corresponding conservation required through the implementation and/or termination of particular levels, which may be made upon recommendation by the General Manager.

In the event of an extreme emergency, requiring immediate action that cannot be delayed until the next regular, adjourned regular, or special Board meeting, the General Manager shall determine the extent of the conservation required and implement the appropriate level necessary to achieve the required level of conservation. In such event, the General Manager shall notify the Board as soon thereafter as practical and shall consult with the Board President with regard to the calling of an emergency meeting of the Board.

The General Manager will provide a plan to the Board that specifies a timeline for noticing of customers and the implementation of the Water Supply Shortage Level determined by the Board. In addition, the Board of Directors shall be notified at the next regular, adjourned regular, or special Board Meeting of any action taken by the General Manager under this Conservation Program.

A Water Supply Shortage Level shall be deemed to be effective upon the date of adoption and shall remain in place until rescinded, superseded, or modified by further action of the Board.

Section 6: **Permanent Water Conservation Requirements – Prohibition Against Waste.**

This Section is intended to provide for up to a 10 percent reduction in water usage.

The following water conservation requirements shall be effective at all times as prescribed by the Board and shall be permanent. Violations of this Section constitute waste and an unreasonable use of water.

a. **Limits on Watering Hours:** Watering or irrigating of lawn, landscape, or other vegetated area with potable water is prohibited between the hours of 8:00 a.m. and 5:00 p.m. Pacific Standard Time on any day. Hand-held watering cans, buckets, or similar containers reasonably used to convey water for irrigation purposes are not subject to these time restrictions. Similarly, a hand-held hose equipped with a fully functioning, positive self-closing water shut-off nozzle or device may be used during the otherwise restricted period. If necessary, and for very short periods of time for the express purpose of adjusting or repairing it, one may operate an irrigation system during the otherwise restricted period.

b. **No Excessive Water Flow or Runoff:** No person shall cause or allow watering or irrigating of any lawn, landscape or other vegetated area in a manner that causes or allows excessive runoff from the property. Additionally, to the extent prohibited by any Statewide statute, or regulation adopted by any State agency with jurisdiction to adopt such regulations, including, but no limited to, the State Water Resources Control Board, no person shall cause or allow water to flow or runoff their property onto adjacent property, non-irrigated areas, private and public walkways, driveways, roadways, gutters or ditches, parking lots, or structures.

c. **No Washing Down Hard or Paved Surfaces:** Washing down hard or paved surfaces, including but not limited to sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys, is prohibited except when necessary to alleviate safety or sanitary hazards, and then only by use of a hand-held bucket or similar container, a hand-held hose equipped with a fully functioning, positive self-closing water shut-off device, a low-volume, high-pressure cleaning machine equipped to recycle any water used, or a low-volume high-pressure water broom.

d. **Obligation to Fix Leaks, Breaks or Malfunctions:** Excessive use, loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system for any period of time after such escape of water should have reasonably been discovered and corrected and in no event more than seven (7) days of receiving notice from the District, is prohibited.

e. **Re-circulating Water Required for Water Fountains and Decorative Water Features:** Operating a water fountain or other decorative water feature that does not use re-circulated water is prohibited.

f. **Limits on Washing Vehicles:** Using water to wash or clean a vehicle, including but not limited to any automobile, truck, van, bus, motorcycle, boat or trailer, whether motorized or not is prohibited, except by use of a hand-held bucket or similar container or a hand-held hose equipped with a fully functioning, positive self-closing water shut-off nozzle or device that causes it to cease dispensing water immediately when not in use. This subsection does not apply to any commercial car washing facility.

g. **Drinking Water Served Upon Request Only:** Eating or drinking establishments, including but not limited to a restaurant, hotel, cafe, cafeteria, bar, or other public place where food or drinks are sold,

served, or offered for sale, are encouraged not to provide drinking water to any person unless expressly requested.

h. **Commercial Lodging Establishments Must Provide Guests Option to Decline Daily Linen Services:** Hotels, motels and other commercial lodging establishments must provide customers the option of not having towels and linen laundered daily. Commercial lodging establishments shall prominently display notice of this option in each bathroom using clear and easily understood language.

i. **No Installation of Single Pass Cooling Systems:** Installation of single pass cooling systems is prohibited in buildings requesting new water service from Mesa Water District.

j. **No Installation of Non-re-circulating in Commercial Car Wash and Laundry Systems:** Installation of non-re-circulating water systems is prohibited in new commercial conveyor car wash and new commercial laundry systems.

k. **Restaurants Required to Use Water Conserving Dish Wash Spray Valves:** Food preparation establishments, such as restaurants or cafes, are prohibited from using non-water conserving dish wash spray valves.

l. **Commercial Car Wash Systems:** All commercial conveyor car wash systems must utilize re-circulating water systems, or must secure a waiver of this requirement from Mesa Water Distirct.

m. **Recycled Water Use Required if Available:** After the District has provided to the user an analysis demonstrating that Recycled Water is available, cost effective, and safe for the intended use, and the user has been given a reasonable time to make the conversion to recycled water, the use of potable water, is prohibited.

n. **Water Recycling – New Service:** Prior to the connection of any new commercial, industrial, or multi-residential water service, the District shall perform an evaluation to determine whether recycled water is available, cost effective, and safe for the intended use to supply all or some of the water needed by the new user. If available, cost effective, and safe for the intended use, recycled water must be used.

Section 7: **Level 1 Water Supply Shortage: Water Alert.**

This Section is intended to provide for up to a 20 percent reduction in water usage.

a. A Level 1 Water Supply Shortage exists when Mesa Water District determines, in its sole discretion, a water supply shortage or threatened shortage exists and a consumer demand reduction is necessary to make more efficient use of water and appropriately respond to existing water conditions. Upon the declaration of a Level 1 Water Supply Shortage condition, the District will implement all of the mandatory Level 1 conservation measures identified in this Section.

b. **Additional Water Conservation Measures:** In addition to the prohibited uses of water identified in Section 6, the following water conservation requirements shall apply during a declared Level 1 Water Supply Shortage as prescribed by the Board:

1. **Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of three (3) days per week on a schedule established and posted by Mesa Water District by a Resolution of the Board of Directors. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.

2. **Obligation to Fix Leaks, Breaks or Malfunctions**: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within seventy-two (72) hours of notification by Mesa Water District, or turned off, unless other arrangements are made with the District.

3. **Irrigation During Rain Events**: Irrigation is prohibited during rain events.

c. **Other Measures Available for Consideration:** In addition to the conservation requirements specified in Sections 6 and 7(b), other measures are available for additional consideration by the Board that may be necessary to achieve immediate or short term water conservation, and are referenced in Section 10.

Section 8. **Level 2 Water Supply Shortage: Water Warning.**

This Section is intended to provide for up to a 30 percent reduction in water usage.

a. A Level 2 Water Supply Shortage exists when Mesa Water District determines, in its sole discretion, that due to drought or other water

supply conditions, a water supply shortage or threatened shortage exists and a consumer demand reduction is necessary to make more efficient use of water and appropriately respond to existing water conditions. Upon the declaration of a Level 2 Water Supply Shortage condition, the District will implement all of the mandatory Level 2 conservation measures identified in this Section.

b. **Additional Conservation Measures:** In addition to the prohibited uses of water identified in Sections 6 and 7, the following additional water conservation requirements shall apply during a declared Level 2 Water Supply Shortage as prescribed by the Board:

   1. **Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of two (2) days per week on a schedule established and posted by Mesa Water District by a Resolution of the Board of Directors. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.

   2. **Obligation to Fix Leaks, Breaks or Malfunctions**: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within forty-eight (48) hours of notification by Mesa Water District, or turned off, unless other arrangements are made with the District.

   3. **Limits on Filling Ornamental Fountains, Lakes, and Ponds**: Filling or re-filling ornamental fountains, lakes, and ponds is prohibited, except to the extent needed to sustain aquatic life, provided that such animals have been actively managed within the water feature prior to declaration of a supply shortage level under this Conservation Program.

c. **Other Measures Available for Consideration:** In addition to the conservation requirements specified in Sections 6, 7, and 8, other measures are available for additional consideration by the Board that may be necessary to achieve immediate or short term water conservation, and are referenced in Section 10.

Section 9. **Level 3 Water Supply Shortage – Water Emergency.**

This Section is intended to provide for up to a 50 percent reduction in water usage.

a. A Level 3 Water Supply Shortage condition is also referred to as an "Emergency" condition. A Level 3 condition exists when Mesa Water District declares a water shortage emergency and notifies its residents and businesses that a significant reduction in consumer demand is necessary to maintain sufficient water supplies for public health and safety. Upon the declaration of a Level 3 Water Supply Shortage condition, the District may implement all of the mandatory Level 3 conservation measures identified in this section as prescribed by the Board.

b. **Additional Conservation Measures:** In addition to the prohibited uses of water identified in Sections 6, 7, and 8, the following water conservation requirements shall apply during a declared Level 3 Water Supply Shortage Emergency:

1. **No Watering or Irrigating:** Watering or irrigating of lawn, landscape, or other vegetated area is prohibited. This restriction does not apply to the following categories of use:

i. Maintenance of vegetation, including trees and shrubs, that are watered using a hand-held bucket or similar container, hand-held hose equipped with a positive self–closing water shut-off nozzle or device.

ii. Maintenance of existing landscape necessary for fire protection.

iii. Maintenance of existing landscape for soil erosion control.

iv. Maintenance of plant materials identified to be rare or essential to the well-being of protected species.

v. Maintenance of landscape within active public parks and playing fields, day care centers, golf course greens, and school grounds, provided that such irrigation does not exceed a maximum of two (2) days per week according to the schedule established in Section 8(b)(1) and time restrictions in Section 6(a).

vi. Actively irrigated environmental mitigation projects.

2. **Obligation to Fix Leaks, Breaks or Malfunctions**: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within twenty four (24) hours of notification by Mesa Water District, or turned off, unless other arrangements are made with the District.

3. **Car Washing at Commercial Facilities Only:** Washing of motor vehicles, trailers, boats, aircraft and other types of mobile equipment shall be done only at a commercial car wash with water recycling facilities. No restrictions apply where the healthy, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as with refuse trucks and vehicles used to transport food and perishables.

4. **No Initial Filling or Re-Filling of Swimming Pools & Spas:** Filling and Re-Filling of residential swimming pools or outdoor spas with water is prohibited.

5. **No New Potable Water Service**: No new potable water service will be provided, no new temporary meters or permanent meters will be provided, and no statements of immediate ability to serve or provide potable water service (such as, will-serve letters, certificates, or letters of availability) will be issued, except under the following circumstances:

    i. A valid, unexpired building permit has been issued for the project; or

    ii. The project is necessary to protect the public health, safety, and welfare; or

    iii. A parcel that has or previously had a water meter; or

    iv. The applicant provides substantial evidence of an enforceable commitment that water demands for the project will be offset prior to the provision of a new water meter(s) to the satisfaction of the District.

    This provision does not preclude the resetting or turn-on of meters to provide continuation of water service or the restoration of service that has been interrupted prior to declaration of a supply shortage level under this Conservation Program.

c. **Other Measures Available for Consideration:** In addition to the conservation requirements specified in Sections 6, 7, 8, and 9, other measures are available for additional consideration by the Board that

may be necessary to achieve immediate or short term water conservation, and are referenced in Section 10.

Section 10. Other Conservation Measures Available for Implementation.

The following water conservation measures may be implemented at any Water Supply Shortage Level, in addition to, or supplementary to, the Water Conservation Measures set out in Sections 6-9, inclusive, pursuant to the directive(s) of the Board.

a. **Large Landscape Areas – Rain Sensors**: Large landscape areas, such as parks, cemeteries, golf courses, school grounds, and playing fields, that use landscape irrigation systems to water or irrigate, must use landscape irrigation systems with rain sensors that automatically shut off such systems during periods of rain or irrigation timers which automatically use information such as evapotranspiration sensors to set an efficient water use schedule.

b. **Recycled Water for Construction Purposes**: Recycled or non-potable water must be used for construction purposes when available, feasible, and cost-effective.

c. **Water Conserving Plumbing Standards – Change in Service**: Upon the establishment of new water service or a new customer of record for an existing service, all existing plumbing fixtures (including but not limited to: toilets, showerheads, and faucets) must be retrofitted exclusively with water-conserving plumbing fixtures. The water use standards permitted will be those current standards approved by the California Energy Commission.

d. **Irrigation During Rain Events:** The application of potable water to outdoor landscapes during and up to forty-eight (48) hours after measurable rainfall is prohibited.

e. **Irrigated Medians:** The use of potable water to irrigate ornamental turf on public street medians is prohibited.

f. **Irrigated Parkways:** The use of potable water to irrigate ornamental turf on public street parkways is prohibited.

g. **Drinking Water Served Upon Request Only:** Eating or drinking establishments, including but not limited to a restaurant, hotel, cafe, cafeteria, bar, or other public place where food or drinks are sold, served, or offered for sale, are prohibited from providing drinking water to any person unless expressly requested.

h. **Other Measures:** Other measures as may be required by the State or deemed necessary by the Board.

Section 11. Penalties, Violations, and Enforcement.

During Effective Period of Permanent Water Conservation Requirements

a. **Penalties:** Penalties for failure to comply with any provisions of the Conservation Program while Mesa Water District is enforcing the Permanent Water Conservation stage are as follows:

1. **First Violation:** Mesa Water District will issue a written warning and deliver a copy of this Conservation Program to the service address and/or by mail.

2. **Second Violation:** A second violation within the preceding twelve (12) calendar months will receive a second written warning and an attempt to contact the customer of record via telephone.

3. **Third Violation:** A third violation within the preceding twelve (12) calendar months will receive a third written warning with reference to the previous two violations and possibility of future actions including, but not limited to, water flow restriction and discontinued water service.

4. **Fourth and Subsequent Violations:** A fourth and any subsequent violation within the preceding twelve (12) calendar months may result in the installation of a water flow restrictor.

5. **Water Flow Restrictor:** In addition to any written warnings, Mesa Water District may install a water flow restrictor device of approximately one gallon per minute capacity for services up to one and one-half inch size and comparatively sized restrictors for larger services after written notice of intent to install a flow restrictor until the prohibited actions or practices have been deemed by the District to be satisfactorily discontinued or remedied and for a minimum of forty-eight (48) hours.

6. **Discontinuing Service:** In addition to any fines and the installation of a water flow restrictor, Mesa Water District may disconnect a customer's water service for willful violations of mandatory restrictions in this Conservation Program.

During Effective Period of Level I, Level 2, and Level 3 – Water Supply Shortage(s)

b. **Penalties:** Penalties for failure to comply with any provisions of the Conservation Program while Mesa Water District is enforcing Water Supply Shortage Level 1, Level 2, or Level 3 are as follows:

1. **First Violation:** A written warning will be issued and a copy of this Conservation Program delivered to the service address and/or by mail.

2. **Second Violation:** A second violation within the preceding twelve (12) calendar months will receive a second written warning and an attempt to contact the customer of record via telephone.

3. **Third Violation:** A third violation within the preceding twelve (12) calendar months will receive a third written warning with reference to the previous two violations and a Conservation Fee of $100, or the current charge per the schedule of fees and charges as then in effect, will be assessed to the customer's water account.

4. **Fourth and Subsequent Violations:** A fourth and any subsequent violation within the preceding twelve (12) calendar months will receive an additional written warning with reference to the previous violations and a Conservation Fee of $200, or the current charge per the schedule of fees and charges as then in effect, will be assessed to the customer's water account.

5. **Discontinuing Service:** In addition to any fines, Mesa Water District may disconnect a customer's water service for a willful violation of mandatory restrictions in this Conservation Program.

c. **Cost of Flow Restrictor, Conservation Fees, and Disconnecting Service:** A person or entity that violates this Conservation Program is responsible for payment of charges for installing and/or removing any flow restricting device, Conservation Fees, and for disconnecting and/or reconnecting service per the schedule of fees and charges as then in effect. The charge for installing and/or removing any flow restricting device must be paid before the device is removed. Nonpayment thereof will be subject to the same remedies as nonpayment of water rates.

d. **Separate Offenses:** Each day that a violation of this Conservation Program occurs is a separate offense.

e. **Notice and Hearing:**

1. Mesa Water District will issue a Notice of Violation by mail or personal delivery at least ten (10) days before taking enforcement action on a particular violation. Such notice shall describe the violation and the date by which corrective action(s) must be taken. A customer may appeal the Notice of Violation by filing a written notice of appeal attention the District Secretary no later than the close of business on the day before the date scheduled for enforcement action. Any Notice of Violation not timely appealed will be final. Upon receipt of a timely appeal, a hearing on the appeal will be scheduled by the General Manager, and a written notice of the hearing date will be mailed to the customer at least ten (10) days before the date of the hearing.

f. **Additional Actions, Penalties:** The Board may prescribe additional action(s) and/or penalties for violation of the prohibited actions or practices described herein. Mesa Water District may also implement additional actions or programs to educate its customers, ratepayers, and Persons in the District's service area as to the on-going need to conserve and use water wisely.

g. **Application of Penalties:** The General Manager or Water Conservation Coordinator, as applicable, shall have discretion as to the application of penalties and enforcement actions set forth herein. The overall intention of this Conservation Program is to implement water conservation actions as described herein.

h. The penalties established and set forth herein are regulatory and administrative in nature. Such penalties are not imposed for water service or water capacity to any particular customer or person.

Section 12. <u>Hardship Waiver</u>.

a. **Undue and Disproportionate Hardship:** If, due to unique circumstances, a specific requirement of this Conservation Program would result in undue hardship to a Person using water or to property upon which water is used, then the Person may apply for a waiver to the requirements as provided in this Section.

b. **Written Finding:** The waiver may be granted or conditionally granted only upon a written finding of the existence of facts demonstrating an undue hardship to a person using water or to property upon which water is used.

1. **Application**: An application for a waiver must be on a form prescribed by Mesa Water District and is available upon request from the Water Conservation Coordinator. The application must be submitted to the Water Conservation Coordinator and be accompanied by a written statement of the applicant.

2. **Approval Authority:** The Water Conservation Coordinator, as applicable, must act upon any completed application no later than ten (10) days after submittal and may approve, conditionally approve, or deny the waiver. The applicant requesting the waiver will be promptly notified in writing of any action taken. Unless specified otherwise at the time the waiver is approved, the waiver will apply to the subject property or person during the period of the mandatory water supply shortage condition, or a period not to exceed one (1) calendar year.

3. **Right of Appeal:** Any aggrieved applicant, who remains dissatisfied with the decision of the Water Conservation Coordinator, can appeal, in writing, such final decision to the General Manager. The General Manager shall hear such appeal and render his or her decision. The decision of the General Manager shall be final.

Section 13. Other Provisions.

Mesa Water® may provide water efficiency devices either directly or through supported programs. Such devices should remain within the District's service area at all times. Devices provided by the District should be used with the intent to conserve water and not be modified in any way or sold.

Section 14. Severability. If any section, subsection, sentence, clause or phrase in this Conservation Program is for any reason held invalid, the validity of the remainder of the Conservation Program will not be affected. The Board hereby declares it would have passed this Conservation Program and each section, subsection, sentence, clause or phrase thereof, irrespective of the fact that one or more sections, subsections, sentences, clauses, or phrases is declared invalid.

DocuSign Envelope ID: 8E2C5530-456E-46CA-84B0-7A2A754B7017

ORDINANCE NO. 33

ORDINANCE OF THE MESA WATER DISTRICT BOARD OF DIRECTORS MAKING FINDINGS, ADOPTING THE MESA WATER DISTRICT WATER SHORTAGE RESPONSE ORDINANCE RESCINDING ORDINANCE NO. 32 AND TAKING RELATED ACTIONS

WHEREAS, Mesa Water District (Mesa Water® or District) is a county water district organized and operating pursuant to the provisions of the laws of the State of California (State or California); and

WHEREAS, water is a limited natural resource and the District desires to use this natural resource in the most efficient manner possible; and

WHEREAS, periodic droughts are a historic fact in the State; and

WHEREAS, Mesa Water has the authority to adopt water conservation requirements and programs to promote and effectuate water conservation and avoid water wastage; and

WHEREAS, the District desires to rescind and supersede its existing Water Conservation Programs and establish an updated Water Shortage Response Ordinance to conform to current State Water Resources Control Board Regulations; and

WHEREAS, the District's service area is located in a region with a mediterranean climate, densely populated demographics and a mixed economic base including residential, commercial, industrial and institutional consumers; and

WHEREAS, the District derives the water that it delivers to Mesa Water customers from local groundwater sources and supplemental water supply imported from outside the District's boundaries; and

WHEREAS, the quality and quantity of supplemental imported water is under the control of other agencies, and may be subject to conditions beyond the control of those other agencies or Mesa Water; and

WHEREAS, pursuant to California Water Code Section 31026, Mesa Water may restrict the use of water that the District provides during any emergency caused by drought, or other threatened or existing water shortage, and prohibit the wastage of water or the use of water Mesa Water provides during such periods, for any purpose other than domestic uses or such other restricted uses as may be determined to be necessary by the District, and may prohibit use of water Mesa Water provides during such periods for specific uses that Mesa Water may from time to time find to be non-essential; and

WHEREAS, California, including Orange County, experienced significant dry year conditions in 2012-2017, which led local water agencies to declare water shortage conditions that triggered various water conservation actions; and

WHEREAS, Mesa Water has experienced direct impacts on the reliability of available water supplies from time to time; and

WHEREAS, the District's water delivery reliability was increased through customer curtailment in response to demand management measures implemented by Mesa Water; and

WHEREAS, water demand management measures actions were specified in Mesa Water's 2015 Urban Water Management Plan (specifically the Water Shortage Contingency Plan chapter) that adopted Water Shortage Contingency Plan actions based on levels of drought severity, which provided the legal authority for implementation and enforcement through Mesa Water's existing Ordinance No. 32; and

WHEREAS, following the end of the most recent drought, the California Legislature modified the Urban Water Management Planning Act in 2018 to include additional water shortage planning requirements; and

WHEREAS, legislative changes to the California Water Code, specifically to Water Code Section 10632, currently mandate new elements to be included in public agency Urban Water Management Plans and Water Shortage Contingency Plans, including an annual drought risk assessment, reference to State Water Shortage Levels and Statewide water use prohibitions; and

WHEREAS, the Municipal Water District of Orange County (MWDOC) has adopted a 2020 Urban Water Management Plan that includes water conservation as a necessary and effective component of MWDOC's programs to provide a reliable supply of water to meet the needs of MWDOC's 28 member agencies, including Mesa Water; and

WHEREAS, MWDOC's Urban Water Management Plan also includes a chapter on contingency analysis of actions to be taken in response to water supply shortages; and

WHEREAS, this Ordinance is consistent with MWDOC's Urban Water Management Plan and Water Shortage Contingency Plan; and

WHEREAS, the imported water supplies available to Mesa Water through MWDOC are subject to the Water Shortage Allocations determined by the Metropolitan Water District of Southern California (Metropolitan); and

WHEREAS, subsequently, when triggered, MWDOC, as a wholesaler of Metropolitan's water supplies, will be required to curtail deliveries of imported water based

DocuSign Envelope ID: 8E2C5530-456E-46CA-84B0-7A2A754B7017

on MWDOC's Water Shortage Allocation Plan, which from time to time in the future is expected to be activated when a state of shortage exists; and

WHEREAS, as of July 1, 2021, both MWDOC and Mesa Water were required to prepare an Annual Water Supply and Demand Assessment and Drought Risk Assessment as part of their respective Urban Water Management Plans for submission to the California Department of Water Resources; and

WHEREAS, annually, by July 1st of each year, beginning the year following the adoption of the 2020 Urban Water Management Plan, MWDOC and Mesa Water are required to monitor, report, and if declared a drought emergency, then notify the California Department of Water Resources, in order to comply with the California Water Code Section 10632.1 reporting requirements; and

WHEREAS, Mesa Water has adopted, and amended, a Water Shortage Contingency Plan as part of Mesa Water's 2020 Urban Water Management Plan, to establish standards and procedures to enable implementation and enforcement of local water shortage contingency measures; and

WHEREAS, these measures align with the provisions of California Water Code Section 353, which specifies that "when the governing body has so determined and declared the existence of an emergency condition of water shortage within its service area, it shall thereupon adopt such regulations and restrictions on the delivery of water and the consumption within said area of water supplied for public use as will in the sound discretion of such governing body conserve the water supply for the greatest public benefit with particular regard to domestic use, sanitation, and fire protection"; and

WHEREAS, the State has also directed Mesa Water to adopt a water conservation program to mitigate demands in California Water Code Section 375; and

WHEREAS, the Board of Directors (Board) of Mesa Water finds and determines that a water shortage or threat of a water shortage may be found to exist based upon the occurrence of one or more of the following conditions or circumstances:

A. A general water supply shortage due to increased demand and/or limited supplies;

B. Water distribution or storage facilities of Mesa Water or any agency supplying water to the District become inadequate or are restricted;

C. A major failure of the water supply, storage, and/or distribution facilities of Mesa Water or any agency supplying water to the District;

D. Contamination of the water supply, storage, and/or distribution facilities of Mesa Water or any agency supplying water to the District; and/or

E. Acts of nature which in the opinion of Mesa Water constitute an emergency situation and/or which require special water conservation actions.

WHEREAS, prior to the adoption of this Ordinance, the Board has conducted a noticed public hearing to receive public comments concerning the subject matter hereof; and

WHEREAS, the purpose of this Ordinance is to adopt and enact the Water Shortage Response Ordinance within the District's service area.

NOW, THEREFORE, BE IT ORDAINED BY THE MESA WATER DISTRICT BOARD OF DIRECTORS AS FOLLOWS:

Section 1. **Recitals.** The foregoing recitals are true and correct and are incorporated herein by this reference.

Section 2. **Findings.** The Board hereby finds and determines as follows:

a. A reliable minimum supply of potable water is essential to the public health, safety, and welfare of the people, and economy of the southern California region.

b. Water management that includes active water use efficiency measures not only in times of drought, but at all times, is essential to ensure a reliable minimum supply of water to meet current and future water supply needs.

c. California Water Code Section 375 authorizes water suppliers to adopt and enforce a comprehensive water conservation program to reduce water consumption and conserve supplies.

d. Mesa Water has the authority, pursuant to California Water Code Sections 353-355, 31000, 31001 and 31026-31029, inclusive, to take action(s) relative to the use and conservation of water within Mesa Water's service area.

e. The adoption and enforcement of a permanent Water Shortage Response Ordinance is necessary to help manage the District's potable water supply in the short and long-term and to avoid or minimize the effects of periodic drought and shortage conditions within, or affecting its service area and potable water supplies. Such ordinance is essential to ensure a reliable and sustainable minimum supply of water for the public health, safety and welfare.

f. The Board does hereby find that the following circumstances may constitute an emergency condition or a threatened or existing water

DocuSign Envelope ID: 8E2C5530-456E-46CA-84B0-7A2A754B7017

shortage condition within or affecting Mesa Water:

i. A general water supply shortage due to increased demand and/or limited supplies;

ii. Distribution or storage facilities of Mesa Water or any agency supplying water to the District become inadequate;

iii. A major failure of the supply, storage and/or distribution facilities of Mesa Water or any agency supplying water to Mesa Water's service area;

iv. Contamination of the water supply, storage, and/or distribution facilities of Mesa Water or any agency supplying water to Mesa Water's service area; and/or

v. Acts of nature, which in the opinion of the District constitute an emergency situation.

Section 3. **Ordinance Designation; Purpose; Intent and Integration.**

a. This Ordinance establishes water management requirements necessary to conserve water, enables effective water supply planning, assures reasonable and beneficial use of water, prevents waste of water, prevents unreasonable use of water, prevents unreasonable methods of use of water within the boundaries of Mesa Water in order to assure adequate supplies of water to meet the needs of the public, and further the public health, safety and welfare, recognizing that water is a scarce natural resource that requires careful management not only in times of drought, but at all times.

b. This Ordinance establishes regulations to be implemented during times of declared water shortages or declared water shortage emergencies.

c. This Ordinance establishes six Water Shortage Levels that are most often triggered due to drought or water shortage conditions to provide defined response actions to be implemented during times of declared water shortage or declared water shortage emergency, with increasing restrictions on water use in response to worsening drought or emergency conditions and decreasing supplies.

d. This Ordinance is intended solely to further the conservation of water. It is not intended to implement any provision of federal, State, or local statutes, ordinances, or regulations relating to protection of water quality or control of drainage or runoff. This Ordinance shall not act to repeal, supersede or amend any federal, State or local law, ordinance or

regulation relating to protection of water quality or control of drainage or runoff (including, but not limited to, any and all National Pollution Discharge Elimination System (NPDES) permits or requirements which may be applicable in such instance) or exempt any person or party from compliance therewith.

e. Mesa Water's prior Water Conservation Programs, and Ordinance No. 32, as adopted and supplemented, as applicable, are rescinded and superseded upon this Ordinance becoming effective.

Section 4. **Water Shortage Response Ordinance Provisions.**

a. The Water Shortage Response Ordinance provisions are set forth in Exhibit A to this Ordinance and are incorporated herein by this reference.

b. The Water Shortage Response Ordinance shall be referred to in Mesa Water's Rules and Regulations for Water Service.

c. The Board reserves the right to amend, revise, and/or supplement this Ordinance in the future based upon the District's needs, circumstances and requirements.

d. This Ordinance is adopted by this Board pursuant to the provisions and authority set out in the California Constitution and California law as referenced herein.

e. All penalties set forth in the Water Shortage Response Ordinance are administrative and regulatory penalties and are not fees or charges for water service or water capacity.

Section 5. **California Environmental Quality Act (CEQA) Exemption.**

The Board finds that this Ordinance, the Water Shortage Response Ordinance and actions taken hereafter pursuant to the Ordinance, are exempt from the California Environmental Quality Act as specific actions necessary to prevent or mitigate an emergency pursuant to 14 California Code of Regulations, Sections 15269, 15273, and 15321, and the applicable statutes of the Public Resources Code.

The General Manager and District Secretary are hereby authorized and directed to file a Notice of Exemption as soon as possible following the adoption of this Ordinance.

DocuSign Envelope ID: 8E2C5530-456E-46CA-84B0-7A2A754B7017

Section 6. **Terms and Provisions.** The terms and provisions of this Ordinance enacted hereby, shall be subject to, and shall be interpreted pursuant to, State law.

Section 7. **Notice and Provisions.** Notice of the adoption of this Ordinance, and the provisions hereof, have been, and shall be, as applicable, provided as set out in State law, including, but not limited to, the requirements of Water Code Section 31027.

Section 8. **Other Actions.** Mesa Water staff and officers are hereby authorized and directed to take such other and further action(s) as may be reasonably necessary to carry out the determinations, findings and directives set forth herein, within the limits set forth by, and in accordance with, direction of the Board.

Section 9. **Effective Date.** This Ordinance No. 33 shall take effect on February 9, 2022.

ADOPTED, ORDAINED, SIGNED, AND APPROVED this 9th day of February 2022 by a roll call vote:

AYES: DIRECTORS: Atkinson, Bockmiller, Fisler, Dewane
NOES: DIRECTORS:
ABSTAIN: DIRECTORS:
ABSENT: DIRECTORS: DePasquale

DocuSigned by:
Marice DePasquale
E5D8D720E68F4DA...
Marice H. DePasquale
President, Board of Directors

ATTEST:

DocuSigned by:
Denise Garcia
F01DD5290C8E4B5...
Denise Garcia
District Secretary

ORDINANCE NO. 33

EXHIBIT A

ORDINANCE OF THE MESA WATER DISTRICT BOARD OF DIRECTORS MAKING FINDINGS, ADOPTING THE MESA WATER DISTRICT WATER SHORTAGE RESPONSE ORDINANCE RESCINDING ORDINANCE NO. 32 AND TAKING RELATED ACTIONS

Mesa Water District
Water Shortage Response Ordinance

Adopted: February 9, 2022

Table of Contents

Section 1. **Title.** This program is designated as the Water Shortage Response Ordinance (Ordinance).

Section 2. **Authority.** The Water Shortage Response Ordinance is adopted pursuant to California law and the provisions of Mesa Water District Ordinance No. 33. The General Manager is hereby authorized and directed to implement the provisions of this Water Shortage Response Ordinance as provided for herein.

Section 3. **Definitions.** The following words and phrases whenever used in this Ordinance have the meaning(s) defined in this section:

a. "**Applicant**" means the person, association, developer, corporation or governmental agency applying for water service.

b. "**Billing Cycle**" shall mean the billing period in which a customer's water use is measured for purposes of calculating the amount of the water service rates/charges that shall be collected for the water service provided.

c. "**Board**" means the Board of Directors of Mesa Water.

d. "**Conservation Fee**" means any monetary fee assessed by Mesa Water for violations of this Ordinance.

e. "**Cost**" means the actual cost to Mesa Water, including all labor, material, supplies, equipment and miscellaneous items, together with any applicable indirect and general charges, plus the general administrative overhead, in accordance with the accounting practices of Mesa Water.

f. "**Customer**" means any person, persons, firm, corporation, association, or agency receiving water or services from Mesa Water.

g. "**Effective Date**" shall mean the date of adoption of this Ordinance as provided by Water Code Section 376.

h. "**Flow Restricting Device**" or "**Flow Restrictor**" means a fitting inserted into the service connection to reduce flow capacity.

i. "**General Manager**" means the duly appointed and acting General Manager of Mesa Water, or an authorized agent.

j. "**Grower**" refers to those engaged in the growing plant materials or raising livestock.

k. **"Irrigation Customer"** shall mean a person who, based on Mesa Water's District's records, receives water service and has a dedicated irrigation meter for outdoor irrigation of landscaping.

l. **"Mesa Water" or "District"** means the Mesa Water District, a county water district organized pursuant to California Water Code Sections 33200 and following and operating pursuant to Water Code Sections 30000 and following. References to "Mesa Water" or the "District" also include its Directors, officers, agents and employees, as applicable.

m. **"Metropolitan Water District (Metropolitan)"** means the Metropolitan Water District of Southern California, which is the wholesale urban water supplier of imported water to Municipal Water District of Orange County.

n. **"Municipal Water District of Orange County (MWDOC)"** means the regional wholesale urban water supplier of imported water to Orange County.

o. **"Ordinance"** means Ordinance No. 33, adopted by the Board, and the components and elements thereof, as such may be amended from time to time.

p. **"Person"** means any natural person or persons, corporation, public or private entity, governmental agency or institution, including Mesa Water, or any other user of water provided by the District.

q. **"Potable Water"** means water that is suitable for drinking.

r. **"Recycled Water"** means the reclamation and reuse of non-potable water for beneficial use as defined in Title 22 of the California Code of Regulations.

s. **"Service Connection"** means the pipe or tubing, fittings, and valves necessary to conduct water from the distribution main to and through the meter.

t. **"Single Pass Cooling Systems"** means equipment where water is circulated only once to cool equipment before being disposed of.

u. **"Summer"** shall mean the calendar months of April, May, June, July, August, and September.

v. **"Turf"** means a ground cover surface of mowed grass. Annual bluegrass, Kentucky bluegrass, Perennial ryegrass, Red fescue, and

Tall fescue are cool-season grasses. Bermuda grass, Kikuyu grass, Seashore Paspalum, St. Augustine grass, Zoysia grass, and Buffalo grass are warm-season grasses.

w. **"Valve"** means a device used to control the flow of water.

x. **"Water Allocation"** shall mean the amount of water a residential or irrigation customer may use in a billing cycle during the Winter and Summer.

y. **"Water Conservation Coordinator"** means the person (who may be an officer or employee of Mesa Water) charged with the principal enforcement of this Ordinance. The Water Conservation Coordinator may be the General Manager or another person so designated in writing by the General Manager.

z. **"Water Feature"** means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied). The surface area of water features is included in the high water use hydro zone of the landscaped area. Constructed wetlands used for on-site wastewater treatment, habitat protection or storm water best management practices that are not irrigated and used solely for water treatment or storm water retention are not water features and, therefore, are not subject to the water budget calculation.

aa. **"Water Flow Restrictor"** means a device that is inserted into the service connection and is designed to limit the water flow capacity.

bb. **"Winter"** shall mean the water season that includes the months of October, November, December, January, February, and March.

cc. **"WSCP"** means the Mesa Water 2020 Water Shortage Contingency Plan, as adopted by Mesa Water and as such may be amended from time to time.

Section 4. **Application.**

a. The provisions of this Ordinance apply to any customer, Person and/or property using water provided by Mesa Water.

b. The provisions of this Ordinance do not apply to uses of water necessary to protect public health and safety or for essential government services, such as police, fire, and other similar emergency services.

c. The provisions of this Ordinance do not apply to the use of Recycled Water, with the exception of Section 7(b).

d. The provisions of this Ordinance do not apply to the use of water by commercial nurseries and commercial growers to sustain plants, trees, shrubs, crops or other vegetation intended for commercial sale, with the exception of Section 7(b).

e. The provisions of this Ordinance do not apply to use of water from private wells.

f. This Ordinance is intended solely to further the conservation of water.

Section 5. **Procedures for Determination of Water Supply Shortage and Level Implementation.**

a. Under Water Code Section 10632.1, Mesa Water is required to submit a water shortage assessment "report" to the California Department of Water Resources (DWR) by July 1st of each year.

b. Mesa Water will follow the written decision-making process defined in the WSCP to assess water supply reliability on an annual basis.

c. Mesa Water staff will determine if a water shortage exists based on the water shortage criteria and stages defined in the WSCP.

d. In the event a water shortage is triggered according to the procedures and conditions defined in the adopted WSCP, the Board will declare a shortage according to the defined water shortage levels.

e. The public will be informed of the shortage according to the Procedures and Protocols for Communication identified in Section 6 of this Ordinance.

f. Sudden Catastrophic water Supply Shortage. When the General Manager determines that a sudden event has, or threatens to, significantly diminish the reliability or quality of Mesa Water's water supply, the General Manager may declare a catastrophic water supply shortage and impose whatever emergency water allocation or conservation actions deemed necessary at such time, in the General Manager's professional judgment, to protect the reliability and quality of Mesa Water's water supply, until the emergency passes or Mesa Water takes other action(s). As soon as practicable after the General Manager declares a sudden catastrophic water supply shortage emergency, he shall bring this action to the Board for concurrence.

Section 6. **Procedures and Protocols for Communication.** Upon declaration of a water shortage, Mesa Water will inform all relevant stakeholders, such as customers, the public, interested parties, and local, regional, and State governments, of the effective date of the water shortage response actions associated with the applicable stage according to the communication procedures identified in the WSCP, including:

a. Any current or predicted shortages as determined by the annual water supply and demand assessment.

b. Any shortage response actions triggered or anticipated to be triggered by the annual water supply and demand assessment.

c. Any other relevant communications.

Section 7. **Permanent Water Conservation Requirements – Prohibition Against Waste.** The following water conservation requirements are effective at all times (regardless of any water shortage level) and are permanent. Violations of this section will be considered waste and an unreasonable use of water:

a. Washing down sidewalks, walkways, driveways, parking areas or other paved surfaces is prohibited, except as is required to dispose of dangerous liquids or alleviate safety or sanitary hazards, and then only by use of a hand-held bucket, pressure washer or hand-held hose equipped with a positive self-closing water shut-off device.

b. Using water to wash or clean a vehicle, including but not limited to any automobile, truck, van, bus, motorcycle, boat or trailer, is prohibited, except by use of a hand-held bucket or hand-held hose equipped with a positive self-closing device or water shut-off nozzle. This subsection does not apply to any commercial car washing facility.

c. The use of water to clean, fill or maintain levels in decorative fountains, ponds, lakes or other similar aesthetic structures, unless such water is part of a re-circulating system, is prohibited. The only exception may be a water feature currently listed in the National Register of Historic Places, where water use deemed necessary for integrity of the feature.

d. The use of water to irrigate outdoor landscapes during or within forty-eight (48) hours after measurable rainfall.

e. The irrigation with potable water of ornamental turf on public street medians.

f. The irrigation with potable water of landscapes outside of newly constructed homes and buildings in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.

Mesa Water related requirements include the following limitations on water use under all water supply conditions:

a. No Installation of Single Pass Cooling Systems: Installation of single pass cooling systems is prohibited in buildings requesting new water service from Mesa Water.

b. No Installation of Non-re-circulating in Commercial Car Wash and Laundry Systems: Installation of non-re-circulating water systems is prohibited in new commercial conveyor car wash and new commercial laundry systems.

c. Commercial Car Wash Systems: All commercial conveyor car wash systems must utilize re-circulating water systems, or must secure a waiver of this requirement from Mesa Water.

d. Obligation to Fix Leaks, Breaks, or Malfunctions: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within ninety-six (96) hours of notification by Mesa Water, or turned off, unless other arrangements are made with the District.

Section 8. **Correlation between Mesa Water's Water Supply Shortage Levels and DWR's Water Supply Shortage Levels.**

a. Metropolitan and MWDOC's Water Shortage Contingency Plan follows the six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40 and 50 percent shortages and greater than 50 percent shortage. (See Water Code Section 10632 (a)(3)(A)).

b. Mesa Water's water shortage levels are aligned with the State Water Shortage Levels and as also defined in the MWDOC WSCP and therefore comply with Water Code Section 10632 (a)(3) as identified above.

Section 9. **Levels of Declared Water Supply Shortage.** The General Manager is authorized to require or impose reductions in the use of water if such reductions are necessary to comply with Water Supply Shortage conditions as defined in the WSCP.

The shortage response actions that align with each Level of Water Supply Shortage are defined in the WSCP and include, at a minimum, all of the following:

a. Locally appropriate supply augmentation actions.

b. Locally appropriate demand reduction actions to adequately respond to shortages.

c. Locally appropriate operational changes.

d. Additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions.

e. For each action, an estimate of the extent to which the gap between supplies and demand will be reduced by implementation of the action.

f. Each elevated shortage level will include the elements of the previous shortage level(s), including the mandatory restrictions on water waste detailed in Section 7, and each elevated shortage level is intended to be more restrictive than the previous level(s).

g. As deemed necessary, an allocation of water supply under a water supply emergency condition beyond WSCP defined actions may be implemented when water supply conditions dictate necessity.

Section 10. **Penalties, Violations, and Enforcement.**

During Effective Period of Permanent Water Conservation Requirements

a. **Penalties:** Penalties for failure to comply with any provisions of the Ordinance while Mesa Water is enforcing the Permanent Water Conservation stage are as follows:

1. **First Violation:** Mesa Water will issue a written warning and deliver a copy of this Ordinance to the service address and/or by mail.

2. **Second Violation:** A second violation within the preceding twelve (12) calendar months will receive a second written warning and an attempt to contact the customer of record via telephone.

3. **Third Violation:** A third violation within the preceding twelve (12) calendar months will receive a third written warning with reference

to the previous two violations and possibility of future actions including, but not limited to, water flow restriction and discontinued water service.

4. **Fourth and Subsequent Violations:** A fourth and any subsequent violation within the preceding twelve (12) calendar months may result in the installation of a water flow restrictor.

5. **Water Flow Restrictor:** In addition to any written warnings, following the fourth and subsequent violation, Mesa Water may install a water flow restrictor device of approximately one gallon per minute capacity for services up to one and one-half inch size and comparatively sized restrictors for larger services after written notice of intent to install a flow restrictor until the prohibited actions or practices have been deemed by the District to be satisfactorily discontinued or remedied and for a minimum of forty-eight (48) hours.

6. **Discontinuing Service:** In addition to any actions set out in this Section 10 and the installation of a water flow restrictor, Mesa Water may disconnect a customer's water service for willful violations of mandatory restrictions set forth in this Ordinance.

During Effective Period of Level I, Level 2, Level 3, Level 4, Level 5, and Level 6 – Water Supply Shortage(s)

b. **Penalties:** Penalties for failure to comply with any provisions of the Ordinance while Mesa Water is enforcing Water Supply Shortage Level 1, Level 2, Level 3, Level 4, Level 5, or Level 6 are as follows:

1. **First Violation:** A written warning will be issued and a copy of this Ordinance delivered to the service address and/or by mail.

2. **Second Violation:** A second violation within the preceding twelve (12) calendar months will receive a second written warning and an attempt to contact the customer of record via telephone.

3. **Third Violation:** A third violation within the preceding twelve (12) calendar months will receive a third written warning with reference to the previous two violations and a Conservation Fee of $100, or the current charge per the schedule of fees and charges as then in effect, will be assessed to the customer's water account.

4. **Fourth and Subsequent Violations:** A fourth and any subsequent violation within the preceding twelve (12) calendar months will receive an additional written warning with reference to the previous

violations and a Conservation Fee of $200, or the current charge per the schedule of fees and charges as then in effect, will be assessed to the customer's water account.

5. **Discontinuing Service:** In addition to any fines, Mesa Water may disconnect a customer's water service for a willful violation of mandatory restrictions in this Ordinance.

c. **Cost of Flow Restrictor, Conservation Fees, and Disconnecting Service:** A person or entity that violates this Ordinance is responsible for payment of charges for installing and/or removing any flow restricting device, Conservation Fees, and for disconnecting and/or reconnecting service per the schedule of fees and charges as then in effect. The charge for installing and/or removing any flow restricting device must be paid before the device is removed. Nonpayment thereof will be subject to the same remedies as nonpayment of water rates.

d. **Separate Offenses:** Each day that a violation of this Ordinance occurs is a separate offense.

e. **Notice and Hearing:**

1. Mesa Water will issue a Notice of Violation by mail or personal delivery at least ten (10) days before taking enforcement action on a particular violation. Such notice shall describe the violation and the date by which corrective action(s) must be taken. A customer may appeal the Notice of Violation by filing a written notice of appeal attention the District Secretary no later than the close of business on the day before the date scheduled for enforcement action. Any Notice of Violation not timely appealed will be final. Upon receipt of a timely appeal, a hearing on the appeal will be scheduled by the General Manager, and a written notice of the hearing date will be mailed to the customer at least ten (10) days before the date of the hearing.

f. **Additional Actions, Penalties:** The Board may prescribe additional action(s) and/or penalties for violation of the prohibited actions or practices described herein. Mesa Water may also implement additional actions or programs to educate its customers, ratepayers, and Persons in the District's service area as to the on-going need to conserve and use water wisely.

g. **Application of Penalties:** The General Manager or Water Conservation Coordinator, as applicable, shall have discretion as to the application of penalties and enforcement actions set forth herein.

The overall intention of this Ordinance is to implement water conservation actions as described herein.

h. The penalties established and set forth herein are regulatory and administrative in nature. Such penalties are not imposed for water service or water capacity to any particular customer or person.

Section 11. **Hardship Waiver.**

a. **Undue and Disproportionate Hardship:** If, due to unique circumstances, a specific requirement of this Ordinance would result in undue hardship to a Person using water or to property upon which water is used, then the Person may apply for a waiver to the requirements as provided in this Section.

b. **Written Finding:** The waiver of the requirements hereof may be granted, or conditionally granted, only upon a written finding of the existence of facts demonstrating an undue hardship to a person using water or to property upon which water is used.

1. **Application**: An application for a waiver must be on a form prescribed by Mesa Water and is available upon request from the Water Conservation Coordinator. The application must be submitted to the Water Conservation Coordinator and be accompanied by a written statement of the applicant.

2. **Approval Authority:** The Water Conservation Coordinator, as applicable, must act upon any completed application no later than ten (10) days after submittal and may approve, conditionally approve, or deny the waiver. The applicant requesting the waiver will be promptly notified in writing of any action taken. Unless specified otherwise at the time the waiver is approved, the waiver will apply to the subject property or person during the period of the mandatory water supply shortage condition, or a period not to exceed one (1) calendar year.

3. **Right of Appeal:** Any aggrieved applicant, who remains dissatisfied with the decision of the Water Conservation Coordinator, can appeal, in writing, such final decision to the General Manager. The General Manager shall hear such appeal and render his or her decision. The decision of the General Manager shall be final.

Section 12. **Procedures for Monitoring Compliance and Reporting to the State.** In order to ensure compliance with state reporting requirements and to

customer compliance, Mesa Water will ensure the collect, track, and analyze relevant data per the procedures defined in the WSCP.

Section 13. **Reevaluation and Improvement Process of Water Shortage Procedures.** To ensure water shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed, the WSCP will be reviewed and evaluated as defined by the procedures identified in the WSCP.

Section 14. **Other Provisions.** Mesa Water may provide water efficiency devices either directly or through supported programs. Such devices should remain within the District's service area at all times. Devices provided by the District should be used with the intent to conserve water and not be modified in any way or sold.

Section 15. **Severability.** If any section, subsection, sentence, clause or phrase in this Ordinance is for any reason held invalid, the validity of the remainder of the Ordinance will not be affected. The Board hereby declares it would have passed this Ordinance and each section, subsection, sentence, clause or phrase thereof, irrespective of the fact that one or more sections, subsections, sentences, clauses, or phrases is, or may be, declared invalid.

DocuSign Envelope ID: 8E2C5530-456E-46CA-84B0-7A2A754B7017

RESOLUTION NO. 1562

RESOLUTION OF THE MESA WATER DISTRICT BOARD OF DIRECTORS APPROVING THE ADOPTION OF THE MESA WATER 2020 WATER SHORTAGE CONTINGENCY PLAN AS AMENDED

WHEREAS, the Mesa Water District (Mesa Water®) is a county water district organized and operating pursuant to the provisions of the laws of the State of California (State or California); and

WHEREAS, the California Legislature enacted Assembly Bill 797 (California Water Code (Water Code) Sections 10610 *et seq.*), known as the Urban Water Management Planning Act, as amended) during the 1983-1984 Regular Session, which mandates that every supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre feet of water annually, prepare an Urban Water Management Plan and a Water Shortage Contingency Plan, the primary objective of which is to ensure the appropriate level of reliability in its water service to meet the needs of its customers during normal, dry, and multiple dry years, and to provide for conservation and efficient use of water; and

WHEREAS, in 2018 the California Legislature modified the Urban Water Management Planning Act to include additional water shortage planning requirements; and

WHEREAS, significant amendments to the Water Code, specifically to Water Code Section 10632, currently mandate new elements to Urban Water Management Plans, including Water Shortage Contingency Plans, which include an annual drought risk assessment, evaluation of State Water Shortage Levels and Statewide water use limitations; and

WHEREAS, Mesa Water is an urban water supplier providing water to a population over 100,000; and

WHEREAS, Mesa Water's Urban Water Management Plan (UWMP) is periodically reviewed, at least once every five years, and Mesa Water makes amendments or changes to the UWMP which are indicated by such reviews; and

WHEREAS, the UWMP was most recently updated, adopted and submitted to the California Department of Water Resources in 2021, which included the Mesa Water 2020 Water Shortage Contingency Plan (Contingency Plan); and

WHEREAS, based on current evaluations of the Contingency Plan, Mesa Water desires to amend the Contingency Plan at this time to conform to Mesa Water's water management planning, the provisions of Water Code Section 10632, best practices and related matters; and

DocuSign Envelope ID: 8E2C5530-456E-46CA-84B0-7A2A754B7017

WHEREAS, Mesa Water staff prepared for review by the public and the Board of Directors (Board) of Mesa Water the amended Contingency Plan; and

WHEREAS, the Board members have been furnished with copies of the amended Contingency Plan as part of their consideration of such amended Contingency Plan and which amended Contingency Plan is on file with the District Secretary; and

WHEREAS, the Board has determined that the adoption of the amended Contingency Plan, which will constitute a portion of the UWMP, as provided for under Water Code Section 10632, at this time, is appropriate.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE MESA WATER DISTRICT DOES HEREBY RESOLVE, DETERMINE, AND ORDER AS FOLLOWS:

Section 1. The foregoing recitals are true and correct and are incorporated herein by this reference.

Section 2. The Board of Directors hereby adopts the amended Contingency Plan, which shall constitute a portion of the UWMP, which the amended Contingency Plan is incorporated herein by this reference, and will implement the amended Contingency Plan in accordance with the terms set forth therein.

Section 3. The District Secretary of Mesa Water is hereby directed to submit the amended Contingency Plan to the California Department of Water Resources, the California State Library, and any city or county within which Mesa Water provides water services, no later than 30 days from the date of adoption hereof, in accordance with Water Code Section 10644(a)(1).

Section 4. The General Manager, District Secretary, and other Mesa Water staff are authorized and directed to take all other and further actions necessary or desirable to carry out the directives of this Resolution.

ADOPTED, SIGNED, and APPROVED this 9th day of February 2022 by a roll call vote.

AYES:	DIRECTORS:	Atkinson, Bockmiller, Fisler, Dewane
NOES:	DIRECTORS:	
ABSTAIN:	DIRECTORS:	
ABSENT:	DIRECTORS:	DePasquale

DocuSigned by:
Marice DePasquale
E35BD720E08F4DA...
Marice H. DePasquale
President, Board of Directors

DocuSigned by:
Denise Garcia
F61DD5296C8E4B5...
Denise Garcia
District Secretary

DocuSign Envelope ID: 8E2C5530-456E-46CA-84B0-7A2A754B7017

RESOLUTION NO. 1562

ATTACHMENT A

RESOLUTION OF THE MESA WATER DISTRICT BOARD OF DIRECTORS APPROVING THE ADOPTION OF THE MESA WATER 2020 WATER SHORTAGECONTINGENCY PLAN AS AMENDED

Mesa Water
2020 Water Shortage Contingency Plan
amended
February 2022

Mesa Water District

2020 Water Shortage Contingency Plan

FINAL DRAFT

December 2021

2020 Water Shortage Contingency Plan

December 2021

Prepared By:
Arcadis U.S., Inc.
320 Commerce, Suite 200
Irvine
California 92602
Phone: 714 730 9052
https://www.arcadis.com

Prepared For:
Mesa Water® District
Phil Lauri, PE, Assistant General Manager
1965 Placentia Ave.
Costa Mesa, CA 92627
Phone: 714 754 5251
https://www.mesawater.org/

Maddaus Water Management, Inc.
Danville, California 94526
Sacramento, California 95816
www.maddauswater.com

Our Ref:
30055240

_____

Lisa Maddaus, P.E.
Technical Lead
Maddaus Water Management, Inc.

_____

Sarina Sriboonlue, P.E.
Project Manager
Arcadis U.S., Inc.

Contents

Tables

Figures

Appendices

Acronyms and Abbreviations

%	Percent
AF	Acre-Feet
Annual Assessment	Annual Water Supply and Demand Assessment
BPP	Basin Production Percentage
CRA	Colorado River Aqueduct
DDW	Division of Drinking Water
DRA	Drought Risk Assessment
DVL	Diamond Valley Lake
DWR	California Department of Water Resources
EAP	Emergency Operations Center Actions Plan
EOC	Emergency Operation Center
EOP	Emergency Operations Plan
FY	Fiscal Year
GAP	Green Acres Project
GSP	Groundwater Sustainability Plan
HMP	Hazard Mitigation Plan
IAWP	Interim Agricultural Water Program
IRP	Integrated Water Resource Plan
M&I	Municipal and Industrial
MCL	Maximum Contaminant Level
Mesa Water	Mesa Water District
MET	Metropolitan Water District of Southern California
Metropolitan Act	Metropolitan Water District Act
MWDOC	Municipal Water District of Orange County
NIMS	National Incident Management System
OC Basin	Orange County Groundwater Basin
OCWD	Orange County Water District
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
PPT	Parts Per Trillion
Producer	Groundwater Producer
RL	Response Level
SEMS	California Standardized Emergency Management System
Supplier	Urban Water Supplier
SWP	State Water Project
SWRCB	California State Water Resources Control Board
UWMP	Urban Water Management Plan
Water Code	California Water Code

WEROC	Water Emergency Response Organization of Orange County
WSAP	Water Supply Allocation Plan
WSCP	Water Shortage Contingency Plan
WSDM	Water Surplus and Drought Management Plan

1 INTRODUCTION AND WSCP OVERVIEW

The Water Shortage Contingency Plan (WSCP) is a strategic planning document designed to prepare for and respond to water shortages. This WSCP complies with California Water Code (Water Code) Section 10632, which requires that every urban water supplier (Supplier) shall prepare and adopt a WSCP as part of its Urban Water Management Plan (UWMP). This level of detailed planning and preparation is intended to help maintain reliable supplies and reduce the impacts of supply interruptions.

The WSCP is Mesa Water District (Mesa Water)'s operating manual that is used to prevent catastrophic service disruptions through proactive, rather than reactive, management. A water shortage, when water supply available is insufficient to meet the normally expected customer water use at a given point in time, may occur due to a number of reasons, such as drought, climate change, and catastrophic events. This plan provides a structured guide for Mesa Water to deal with water shortages, incorporating prescriptive information and standardized action levels, along with implementation actions in the event of a catastrophic supply interruption. This way, if and when shortage conditions arise, Mesa Water's governing body, its staff, and the public can easily identify and efficiently implement pre-determined steps to manage a water shortage. A well-structured WSCP allows real-time water supply availability assessment and structured steps designed to respond to actual conditions, to allow for efficient management of any shortage with predictability and accountability.

The WSCP also describes Mesa Water's procedures for conducting an Annual Water Supply and Demand Assessment (Annual Assessment) that is required by Water Code Section 10632.1 and is to be submitted to the California Department of Water Resources (DWR) on or before July 1 of each year, or within 14 days of receiving final allocations from the State Water Project (SWP), whichever is later. Mesa Water's 2020 WSCP is included as an appendix to its 2020 UWMP which will be submitted to DWR by July 1, 2021. However, this WSCP is created separately from Mesa Water's 2020 UWMP and can be amended, as needed, without amending the UWMP. Furthermore, the Water Code does not prohibit a Supplier from taking actions not specified in its WSCP, if needed, without having to formally amend its UWMP or WSCP.

1.1 Water Shortage Contingency Plan Requirements and Organization

The WSCP provides the steps and water shortage response actions to be taken in times of water shortage conditions. The WSCP has prescriptive elements, such as an analysis of water supply reliability; the water shortage response actions for each of the six standard water shortage levels that correspond to water shortage percentages ranging from 10% to greater than 50%; an estimate of potential to close supply gap for each measure; protocols and procedures to communicate identified actions for any current or predicted water shortage conditions; procedures for an Annual Assessment; monitoring and reporting requirements to determine customer compliance; and reevaluation and improvement procedures for evaluating the WSCP.

This WSCP is organized into three main sections, with Section 3 aligned with Water Code Section 16032 requirements.

Section 1 Introduction and WSCP Overview gives an overview of the WSCP fundamentals.

Section 2 Background provides a background on Mesa Water's water service area.

Section 3 Water Shortage Contingency Preparedness and Response Planning

Section 3.1 Water Supply Reliability Analysis provides a summary of the water supply analysis and water reliability findings from the 2020 UWMP.

Section 3.2 Annual Water Supply and Demand Assessment Procedures provide a description of procedures to conduct and approve the Annual Assessment.

Section 3.3 Six Standard Water Shortage Stages explains the WSCP's six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, 50, and more than 50% shortages.

Section 3.4 Shortage Response Actions describes the WSCP's shortage response actions that align with the defined shortage levels.

Section 3.5 Communication Protocols addresses communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding any current or predicted shortages and any resulting shortage response actions.

Section 3.6 Compliance and Enforcement describes customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions.

Section 3.7 Legal Authorities is a description of the legal authorities that enable Mesa Water to implement and enforce its shortage response actions.

Section 3.8 Financial Consequences of the WSCP provides a description of the financial consequences of and responses for drought conditions.

Section 3.9 Monitoring and Reporting describes monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements**.**

Section 3.10 WSCP Refinement Procedures addresses reevaluation and improvement procedures for monitoring and evaluating the functionality of the WSCP.

Section 3.11 Special Water Feature Distinction is a required definition for inclusion in a WSCP per the Water Code.

Section 3.12 Plan Adoption, Submittal, and Implementation provides a record of the process Mesa Water followed to adopt and implement its WSCP.

1.2 Integration with Other Planning Efforts

As a retail water supplier in Orange County, Mesa Water considered other key entities in the development of this WSCP, including the Municipal Water District of Orange County ([MWDOC] (regional wholesale supplier), the Metropolitan Water District of Southern California ([MET] (regional wholesaler for Southern California and the direct supplier of imported water to MWDOC), and Orange County Water District ([OCWD] (Orange County Groundwater Basin manager and provider of recycled water in North Orange County). As a MWDOC member agency, Mesa Water also developed this WSCP with input from several coordination efforts led by MWDOC.

Some of the key planning and reporting documents that were used to develop this WSCP are:

- **MWDOC's 2020 UWMP** provides the basis for the projections of the imported supply availability over the next 25 years for Mesa Water's service area.
- **MWDOC's 2020 WSCP** provides a water supply availability assessment and structured steps designed to respond to actual conditions that will help maintain reliable supplies and reduce the impacts of supply interruptions.
- **2021 Orange County Water Demand Forecast for MWDOC and OCWD Technical Memorandum (Demand Forecast TM)** provides the basis for water demand projections for MWDOC's member agencies as well as Anaheim, Fullerton, and Santa Ana.
- **MET's 2020 Integrated Water Resources Plan (IRP)** is a long-term planning document to ensure water supply availability in Southern California and provides a basis for water supply reliability in Orange County.
- **MET's 2020 UWMP** was developed as a part of the 2020 IRP planning process and was used by MWDOC as another basis for the projections of supply capability of the imported water received from MET.
- **MET's 2020 WSCP** provides a water supply assessment and guide for MET's intended actions during water shortage conditions.
- **OCWD's 2019-20 Engineer's Report** provides information on the groundwater conditions and basin utilization of the Orange County Groundwater Basin (OC Basin).
- **OCWD's 2017 Basin 8-1 Alternative** is an alternative to the Groundwater Sustainability Plan (GSP) for the OC Basin and provides significant information related to sustainable management of the basin in the past and hydrogeology of the basin, including groundwater quality and basin characteristics.
- **2020 Local Hazard Mitigation Plan (HMP)** provides the basis for the seismic risk analysis of the water system facilities.
- **Orange County Local Agency Formation Commission's 2020 Municipal Service Review for MWDOC Report** provides a comprehensive service review of the municipal services provided by MWDOC.
- **Water Master Plan** of Mesa Water provide information on water infrastructure planning projects and plans to address any required water system improvements.
- **Groundwater Management Plans** provide the groundwater sustainability goals for the basins in the MWDOC's service area and the programs, actions, and strategies activities that support those goals.

2 BACKGROUND INFORMATION

Mesa Water is governed by a five-member Board of Directors is located in a community that originated in about 1906. After the Costa Mesa District Merger Law was signed on June 30, 1959, Mesa Water (formerly known as the Costa Mesa County Water District) commenced operations on January 1, 1960 by acquiring the assets and obligations and assumed the responsibility of consolidating the City of Costa Mesa's Water Department, Fairview County Water District, Newport Mesa Irrigation District, and Newport Mesa County Water District.

2.1 Mesa Water Service Area

Mesa Water's water service area is located along the coast of Southern California within Orange County. Mesa Water is between one-eighth of a mile to almost six miles inland of the Pacific Ocean. It is also approximately 37 miles southeast of Los Angeles, 88 miles north of San Diego and 475 miles south of San Francisco. The service area is an 18 square mile area that includes most of the City of Costa Mesa, portions of the City of Newport Beach and a small portion of unincorporated Orange County. Mesa Water shares borders with the County of Orange, the Cities of Huntington Beach, Fountain Valley, Irvine, Santa Ana, and Newport Beach. Mesa Water operates nine wells, which includes two future wells (in construction), a nanofiltration facility, two reservoirs with a total storage of 28 million gallons, two metered interconnections, 16 emergency interconnections and manages 328.4-mile water mains system with approximately 25,032 service connections. A map of Mesa Water's water service area is shown in Figure 2-1.

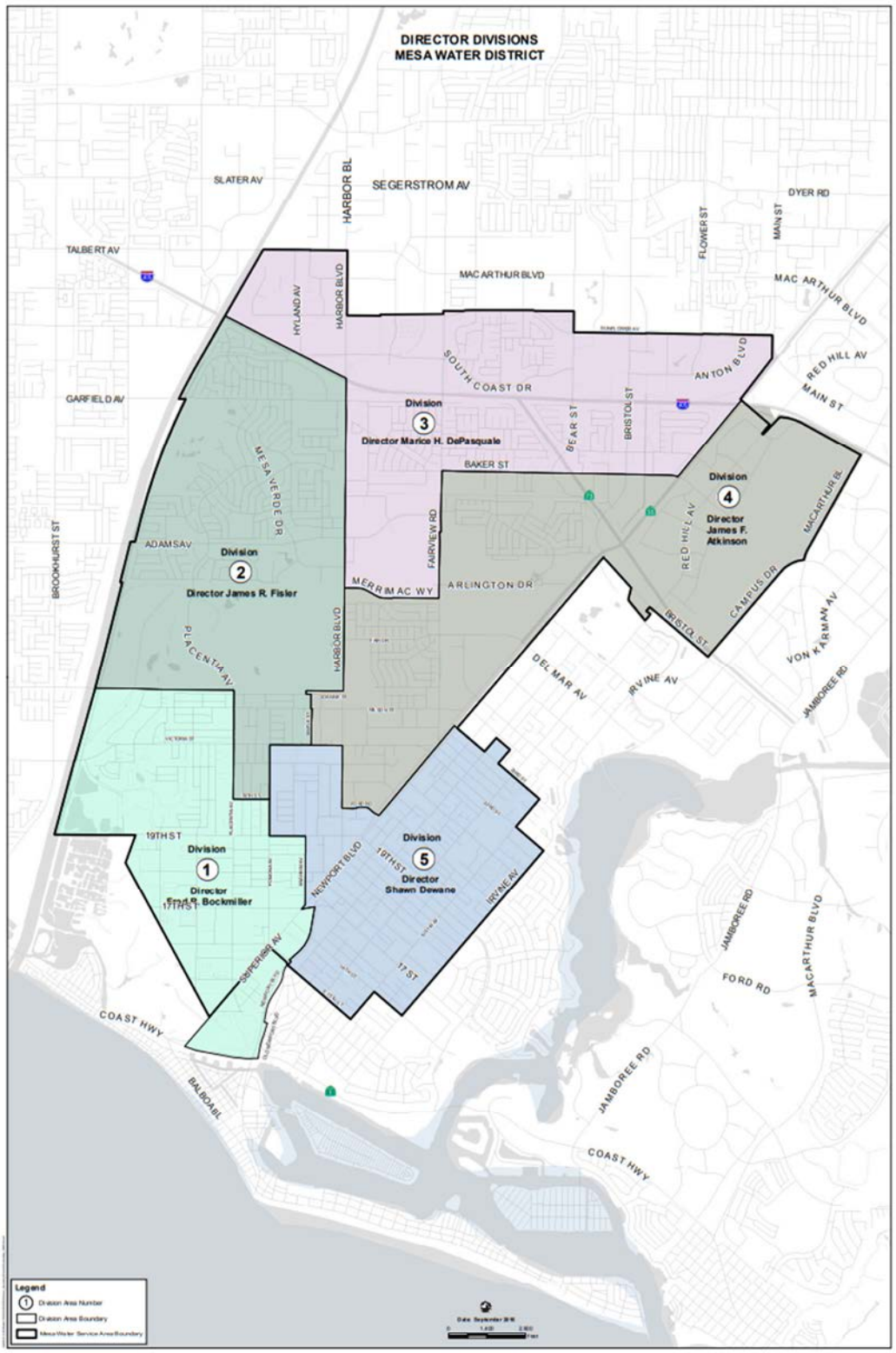


Figure 2-1: Mesa Water Service Area

Although Mesa Water supplements its water supply portfolio with recycled water, the WSCP only applies to its potable water supply. Mesa Water sells and distributes OCWD Green Acres Project (GAP) water to recycled water customers in its service area, as detailed in Section 6.6 of Mesa Water's 2020 UWMP (Mesa Water, 2021). Mesa Water will determine the recycled water demand reduction actions for recycled water based on the availability of supply and to meet necessary wastewater discharge permit requirements.

2.2 Relationship to Wholesalers

The Metropolitan Water District of Southern California: MET is the largest water wholesaler for domestic and municipal uses in California, serving approximately 19 million customers. MET wholesales imported water supplies to 26 member cities and water districts in six Southern California counties. Its service area covers the Southern California coastal plain, extending approximately 200 miles along the Pacific Ocean from the City of Oxnard in the north to the international boundary with Mexico in the south. This encompasses 5,200 square miles and includes portions of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura counties. Approximately 85% of the population from the aforementioned counties reside within MET's boundaries.

MET is governed by a Board of Directors comprised of 38 appointed individuals with a minimum of one representative from each of MET's 26 member agencies. The allocation of directors and voting rights are determined by each agency's assessed valuation. Each member of the Board shall be entitled to cast one vote for each ten million dollars ($10,000,000) of assessed valuation of property taxable for district purposes, in accordance with Section 55 of the Metropolitan Water District Act (Metropolitan Act). Directors can be appointed through the chief executive officer of the member agency or by a majority vote of the governing board of the agency. Directors are not compensated by MET for their service.

MET is responsible for importing water into the region through its operation of the Colorado River Aqueduct (CRA) and its contract with the State of California for SWP supplies. Member agencies receive water from MET through various delivery points and pay for service through a rate structure made up of volumetric rates, capacity charges and readiness to serve charges. Member agencies provide estimates of imported water demand to MET annually in April regarding the amount of water they anticipate they will need to meet their demands for the next five years.

The Municipal Water District of Orange County: In Orange County, MWDOC and the cities of Anaheim, Fullerton, and Santa Ana are MET member agencies that purchase imported water directly from MET. Furthermore, MWDOC purchases both treated potable and untreated water from MET to supplement its retail agencies' local supplies.

Mesa Water is one of MWDOC's 28 member agencies receiving imported water from MWDOC. Mesa Water's location within MWDOC's service area is shown on Figure 2-2.

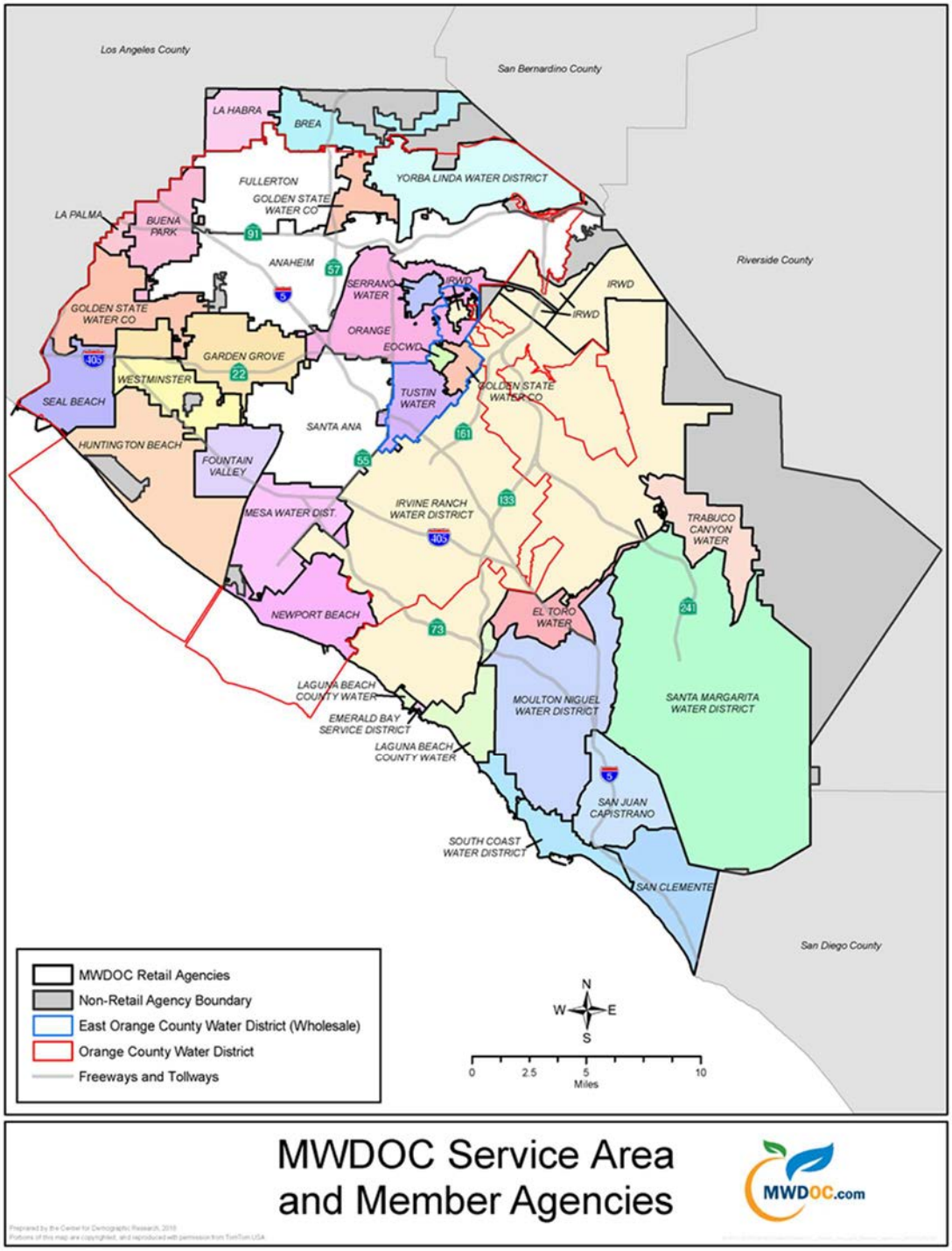


Figure 2-2: Regional Location of Mesa Water and Other MWDOC Member Agencies

2.3 Relationship with Wholesaler Water Shortage Planning

The WSCP is designed to be consistent with MET's Water Shortage and Demand Management (WSDM) Plan, MWDOC's Water Supply Allocation Plan (WSAP), and other emergency planning efforts as described below. MWDOC's WSAP is integral to the WSCP's shortage response strategy in the event that MET or MWDOC determines that supply augmentation (including storage) and lesser demand reduction measures would not be sufficient to meet a projected shortage levels needed to meet demands.

2.3.1 MET Water Surplus and Drought Management Plan

MET evaluates the level of supplies available and existing levels of water in storage to determine the appropriate management stage annually. Each stage is associated with specific resource management actions to avoid extreme shortages to the extent possible and minimize adverse impacts to retail customers should an extreme shortage occur. The sequencing outlined in the WSDM Plan reflects anticipated responses towards MET's existing and expected resource mix.

Surplus stages occur when net annual deliveries can be made to water storage programs. Under the WSDM Plan, there are four surplus management stages that provides a framework for actions to take for surplus supplies. Deliveries in DVL and in SWP terminal reservoirs continue through each surplus stage provided there is available storage capacity. Withdrawals from DVL for regulatory purposes or to meet seasonal demands may occur in any stage.

The WSDM Plan distinguishes between shortages, severe shortages, and extreme shortages. The differences between each term are listed below:

- **Shortage**: MET can meet full-service demands and partially meet or fully meet interruptible demands using stored water or water transfers as necessary (Stages 1-3).
- **Severe Shortage**: MET can meet full-service demands only by making withdrawals from storage, calling on its water transfers, and possibly calling for extraordinary conservation and reducing deliveries under the Interim Agricultural Water Program (IAWP) (Stages 4-5).
- **Extreme Shortage**: MET must allocate available imported supplies to full-service customers (Stage 6).

There are six shortage management stages to guide resource management activities. These stages are defined by shortfalls in imported supply and water balances in MET's storage programs. When MET must make net withdrawals from storage to meet demands, it is considered to be in a shortage condition. Figure 2-3 gives a summary of actions under each surplus and shortage stages when an allocation plan is necessary to enforce mandatory cutbacks. The goal of the WSDM plan is to avoid Stage 6, an extreme shortage (MET, 1999).

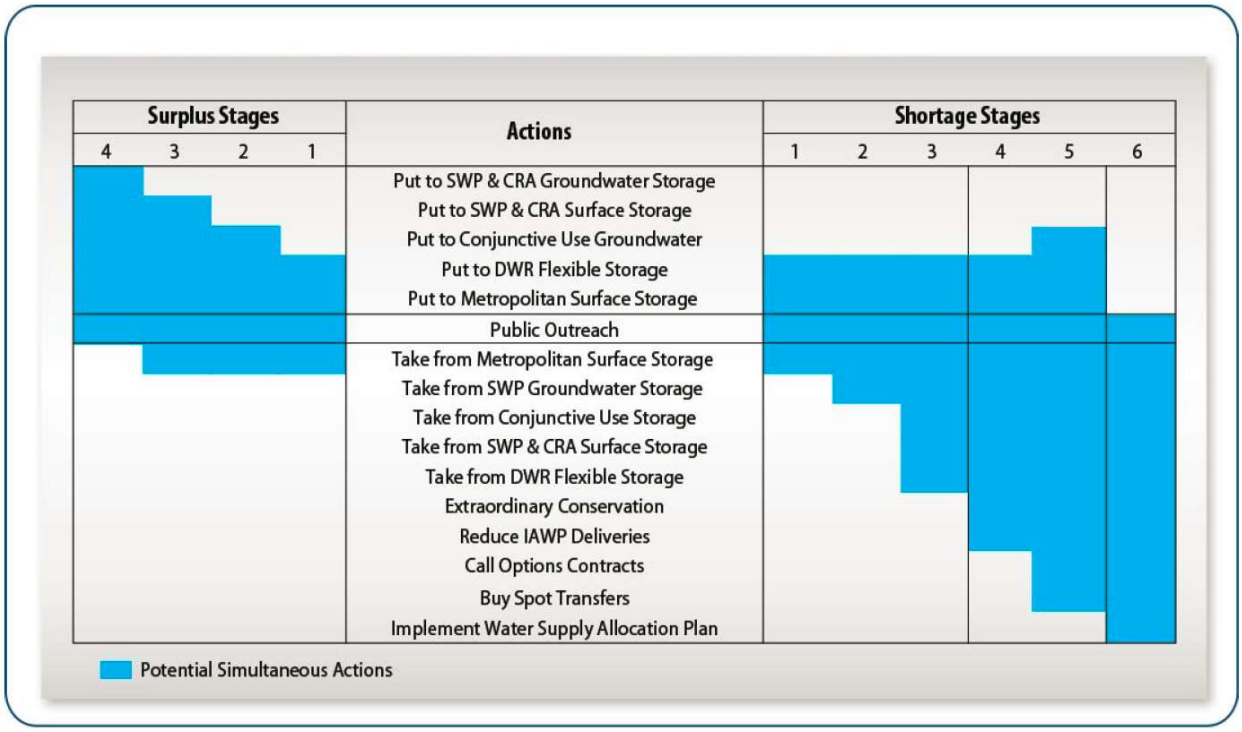


Figure 2-3: Resource Stages, Anticipated Actions, and Supply Declarations
Source: MET, 1999.

MET's Board of Directors adopted a Water Supply Condition Framework in June 2008 in order to communicate the urgency of the region's water supply situation and the need for further water conservation practices. The framework has four conditions, each calling increasing levels of conservation. Descriptions for each of the four conditions are listed below:

- Baseline Water Use Efficiency: Ongoing conservation, outreach, and recycling programs to achieve permanent reductions in water use and build storage reserves.
- Condition 1 Water Supply Watch: Local agency voluntary dry-year conservation measures and use of regional storage reserves.
- Condition 2 Water Supply Alert: Regional call for cities, counties, member agencies, and retail water agencies to implement extraordinary conservation through drought ordinances and other measures to mitigate use of storage reserves.
- Condition 3 Water Supply Allocation: Implement MET's WSAP.

As noted in Condition 3, should supplies become limited to the point where imported water demands cannot be met, MET will allocate water through the WSAP (MET, 2021a).

2.3.2 MET Water Supply Allocation Plan

MET's imported supplies have been impacted by a number of water supply challenges as noted earlier. In case of extreme water shortage within the MET service area is the implementation of its WSAP.

MET's Board of Directors originally adopted the WSAP in February 2008 to fairly distribute a limited amount of water supply and applies it through a detailed methodology to reflect a range of local conditions and needs of the region's retail water consumers (MET, 2021a).

The WSAP includes the specific formula for calculating member agency supply allocations and the key implementation elements needed for administering an allocation. MET's WSAP is the foundation for the urban water shortage contingency analysis required under Water Code Section 10632 and is part of MET's 2020 UWMP.

MET's WSAP was developed in consideration of the principles and guidelines in MET's 1999 WSDM Plan with the core objective of creating an equitable "needs-based allocation." The WSAP's formula seeks to balance the impacts of a shortage at the retail level while maintaining equity on the wholesale level for shortages of MET supplies of greater than 50% cutbacks. The formula takes into account a number of factors, such as the impact on retail customers, growth in population, changes in supply conditions, investments in local resources, demand hardening aspects of water conservation savings, recycled water, extraordinary storage and transfer actions, and groundwater imported water needs.

The formula is calculated in three steps: 1) based period calculations, 2) allocation year calculations, and 3) supply allocation calculations. The first two steps involve standard computations, while the third step contains specific methodology developed for the WSAP.

Step 1: Base Period Calculations – The first step in calculating a member agency's water supply allocation is to estimate their water supply and demand using a historical based period with established water supply and delivery data. The base period for each of the different categories of supply and demand is calculated using data from the two most recent non-shortage years.

Step 2: Allocation Year Calculations – The next step in calculating the member agency's water supply allocation is estimating water needs in the allocation year. This is done by adjusting the base period estimates of retail demand for population growth and changes in local supplies.

Step 3: Supply Allocation Calculations – The final step is calculating the water supply allocation for each member agency based on the allocation year water needs identified in Step 2.

In order to implement the WSAP, MET's Board of Directors makes a determination on the level of the regional shortage, based on specific criteria, typically in April. The criteria used by MET includes current levels of storage, estimated water supplies conditions, and projected imported water demands. The allocations, if deemed necessary, go into effect in July of the same year and remain in effect for a 12-month period. The schedule is made at the discretion of the Board of Directors (MET, 2021b).

As demonstrated by the findings in MET's 2020 UWMP both the Water Reliability Assessment and the Drought Risk Assessment (DRA) demonstrate that MET is able to mitigate the challenges posed by hydrologic variability, potential climate change, and regulatory risk on its imported supply sources through the significant storage capabilities it has developed over the last two decades, both dry-year and emergency storage (MET, 2021a).

Although MET's 2020 UWMP forecasts that MET will be able to meet projected imported demands throughout the projected period from 2025 to 2045, uncertainty in supply conditions can result in MET needing to implement its WSAP to preserve dry-year storage and curtail demands (MET, 2021b).

2.3.3 MWDOC Water Supply Allocation Plan

To prepare for the potential allocation of imported water supplies from MET, MWDOC worked collaboratively with its 28 retail agencies to develop its own WSAP that was adopted in January 2009 and amended in 2016. The MWDOC WSAP outlines how MWDOC will determine and implement each of its retail agency's allocation during a time of shortage.

The MWDOC WSAP uses a similar method and approach, when reasonable, as that of the MET's WSAP. However, MWDOC's plan remains flexible to use an alternative approach when MET's method produces a significant unintended result for the member agencies. The MWDOC WSAP model follows five basic steps to determine a retail agency's imported supply allocation.

Step 1: Determine Baseline Information – The first step in calculating a water supply allocation is to estimate water supply and demand using a historical based period with established water supply and delivery data. The base period for each of the different categories of demand and supply is calculated using data from the last two non-shortage years.

Step 2: Establish Allocation Year Information – In this step, the model adjusts for each retail agency's water need in the allocation year. This is done by adjusting the base period estimates for increased retail water demand based on population growth and changes in local supplies.

Step 3: Calculate Initial Minimum Allocation Based on MET's Declared Shortage Level – This step sets the initial water supply allocation for each retail agency. After a regional shortage level is established, MWDOC will calculate the initial allocation as a percentage of adjusted Base Period Imported water needs within the model for each retail agency.

Step 4: Apply Allocation Adjustments and Credits in the Areas of Retail Impacts and Conservation– In this step, the model assigns additional water to address disparate impacts at the retail level caused by an across-the-board cut of imported supplies. It also applies a conservation credit given to those agencies that have achieved additional water savings at the retail level as a result of successful implementation of water conservation devices, programs and rate structures.

Step 5: Sum Total Allocations and Determine Retail Reliability – This is the final step in calculating a retail agency's total allocation for imported supplies. The model sums an agency's total imported allocation with all of the adjustments and credits and then calculates each agency's retail reliability compared to its Allocation Year Retail Demand.

The MWDOC WSAP includes additional measures for plan implementation, including the following (MWDOC, 2016):

- **Appeal Process –** An appeals process to provide retail agencies the opportunity to request a change to their allocation based on new or corrected information. MWDOC anticipates that under most circumstances, a retail agency's appeal will be the basis for an appeal to MET by MWDOC.
- **Melded Allocation Surcharge Structure –** At the end of the allocation year, MWDOC would only charge an allocation surcharge to each retail agency that exceeded their allocation if MWDOC exceeds its total allocation and is required to pay a surcharge to MET. MET enforces allocations to retail agencies through an allocation surcharge to a retail agency that exceeds its total annual allocation at the end of the 12-month allocation period. MWDOC's surcharge would be assessed

according to the retail agency's prorated share (acre-feet [AF] over usage) of MWDOC amount with MET. Surcharge funds collected by MET will be invested in its Water Management Fund, which is used to in part to fund expenditures in dry-year conservation and local resource development.

- **Tracking and Reporting Water Usage –** MWDOC will provide each retail agency with water use monthly reports that will compare each retail agency's current cumulative retail usage to their allocation baseline. MWDOC will also provide quarterly reports on its cumulative retail usage versus its allocation baseline.
- **Timeline and Option to Revisit the Plan –** The allocation period will cover 12 consecutive months and the Regional Shortage Level will be set for the entire allocation period. MWDOC only anticipates calling for allocation when MET declares a shortage; and no later than 30 days from MET's declaration will MWDOC announce allocation to its retail agencies.

3 WATER SHORTAGE CONTINGENCY PREPAREDNESS AND RESPONSE PLANNING

Mesa Water's WSCP is a detailed guide of how Mesa Water intends to act in the case of an actual water shortage condition. The WSCP anticipates a water supply shortage and provides pre-planned guidance for managing and mitigating a shortage. Regardless of the reason for the shortage, the WSCP is based on adequate details of demand reduction and supply augmentation measures that are structured to match varying degrees of shortage will ensure the relevant stakeholders understand what to expect during a water shortage situation.

3.1 Water Supply Reliability Analysis

Per Water Code Section 10632 (a)(1), the WSCP shall provide an analysis of water supply reliability conducted pursuant to Water Code Section 10635, and the key issues that may create a shortage condition when looking at Mesa Water's water asset portfolio.

Understanding water supply reliability, factors that could contribute to water supply constraints, availability of alternative supplies, and what effect these have on meeting customer demands provides Mesa Water with a solid basis on which to develop appropriate and feasible response actions in the event of a water shortage. In the 2020 UWMP, Mesa Water conducted a Water Reliability Assessment to compare the total water supply sources available to the water supplier with long-term projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and a drought lasting five consecutive water years (Mesa Water, 2021).

Mesa Water also conducted a DRA to evaluate a drought period that lasts five consecutive water years starting from the year following when the assessment is conducted. An analysis of both assessments determined that Mesa Water is capable of meeting all customers' demands from 2021 through 2045 for a normal year, a single dry year, and a drought lasting five consecutive years with significant imported water supplemental dedicated drought supplies from MWDOC/MET and ongoing conversation program efforts. Mesa Water receives the majority of its water supply from groundwater from the OC Basin, as well as supplemental supplies from local recycled water from the OCWD GAP that adds reliability for non-potable water demand.

As a result, there is no projected shortage condition due to drought that will trigger customer demand reduction actions unless Mesa Water exceeds its pumping capacity and until MWDOC notifies Mesa Water of insufficient imported supplies for supply augmentation in an emergency situation. More information is available in Mesa Water's 2020 UWMP Section 6 and 7 (Mesa Water, 2021).

3.2 Annual Water Supply and Demand Assessment Procedures

Per Water Code Section 10632.1, Mesa Water will conduct an Annual Assessment pursuant to subdivision (a) of Section 10632 and by July 1st of each year, beginning in 2022, submit an Annual Assessment with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the Supplier's WSCP.

Mesa Water must include in its WSCP the procedures used for conducting an Annual Assessment. The Annual Assessment is a determination of the near-term outlook for supplies and demands and how a perceived shortage may relate to WSCP shortage stage response actions in the current calendar year. This determination is based on

information available to Mesa Water at the time of the analysis. Starting in 2022, the Annual Assessment will be due by July 1 of every year.

This section documents the decision-making process required for formal approval of Mesa Water's Annual Assessment determination of water supply reliability each year and the key data inputs and the methodologies used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

3.2.1 Decision-Making Process

The following decision-making process describes the functional steps that Mesa Water will take to formally approve the Annual Assessment determination of water supply reliability each year.

3.2.1.1 Steps to Approve the Annual Assessment Determination

The Annual Assessment will be predicated on the OCWD Basin Production Percentage (BPP) and on MWDOC's Annual Assessment outcomes.

Mesa Water receives groundwater from OCWD. The OC Basin is not adjudicated and as such, pumping from the OC Basin is managed through a process that uses financial incentives to encourage groundwater producers (Producers) to pump a sustainable amount of water. The framework for the financial incentives is based on establishing the BPP, the percentage of each Producer's total water supply that comes from groundwater pumped from the OC Basin. The BPP is set uniformly for all Producers by OCWD on an annual basis in by OCWD Board of Directors. Based on the projected water demand and water modeled water supply, over the long-term, OCWD anticipates sustainably supporting a BPP of 85%; however, volumes of groundwater and imported water may vary depending on OCWD's actual BPP projections. A supply reduction that may result from the annual BPP projection will be included in the Annual Assessment.

As a MWDOC member agency, Mesa Water will consider the MWDOC Annual Assessment findings; however, the primary outcome will be determined by the OCWD BPP projections. The Annual Assessment findings will determine the approval process. If a shortage is identified, the Annual Assessment will be taken to the District Board for approval and formally submitted to DWR prior to the July 1 deadline. If no shortage is identified, the Annual Assessment will be approved by the General Manager and formally submitted to DWR prior to the July 1 deadline.

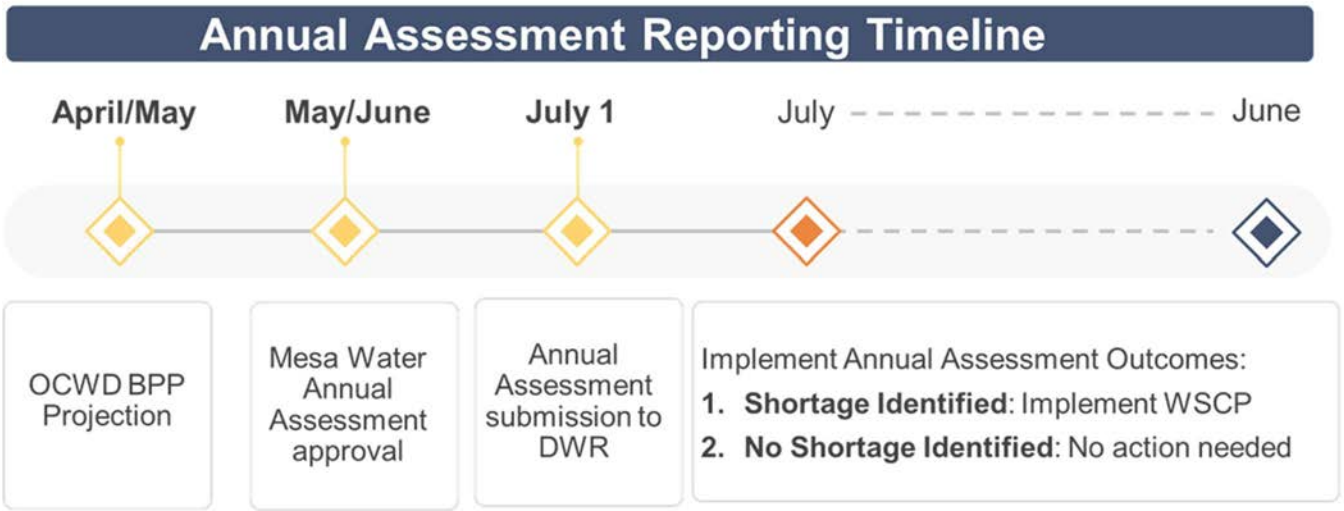


Figure 3-1: Annual Assessment Reporting Timeline

3.2.2 Data and Methodologies

The following paragraphs document the key data inputs and methodologies that are used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

3.2.2.1 Assessment Methodology

Mesa Water will evaluate water supply reliability for the current year and one dry year for the purpose of the Annual Assessment. The Annual Assessment determination will be based on considerations of unconstrained water demand, local water supplies, MWDOC imported water supplies, planned water use, and infrastructure considerations. The balance between projected in-service area supplies, coupled with MWDOC imported supplies, and anticipated unconstrained demand will be used to determine what, if any, shortage stage is expected under the WSCP framework as presented in Figure 3-2. The WSCP's standard shortage stages are defined in terms of shortage percentages. Shortage percentages will be calculated by dividing the difference between water supplies and unconstrained demand by total unconstrained demand. This calculation will be performed separately for anticipated current year conditions and for assumed dry year conditions.

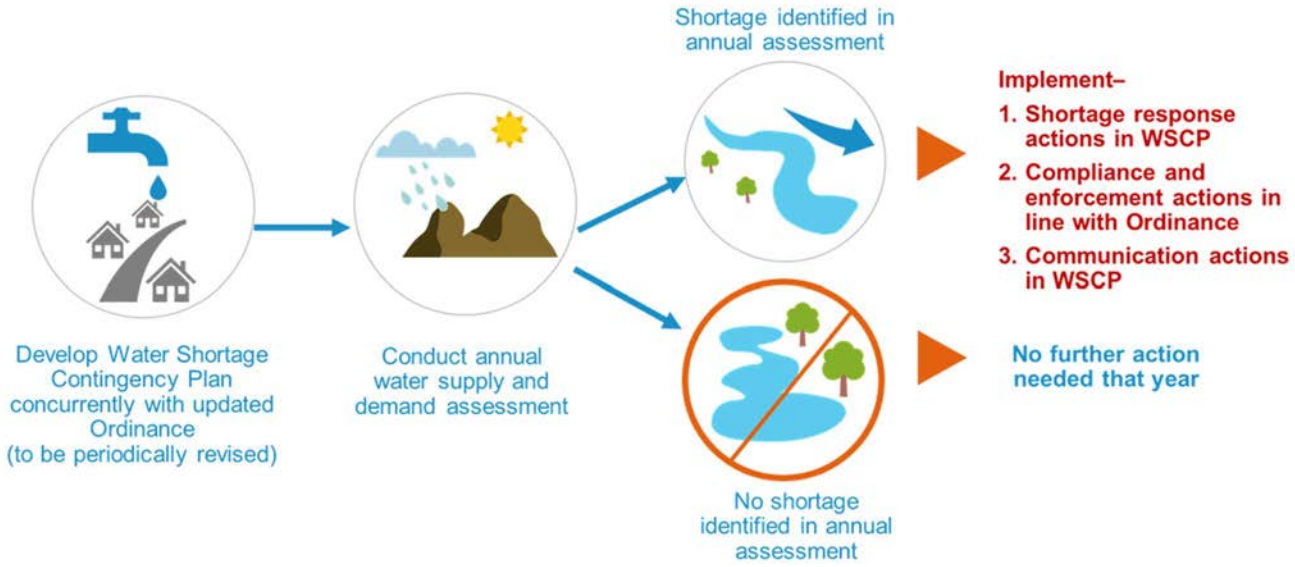


Figure 3-2: Water Shortage Contingency Plan Annual Assessment Framework

3.2.2.2 Locally Applicable Evaluation Criteria

Within Orange County, there are no significant local applicable criteria that directly affect reliability. Through the years, the water agencies in Orange County have made tremendous efforts to integrate their systems to provide flexibility to interchange with different sources of supplies. There are emergency agreements in place to ensure all parts of the County have an adequate supply of water. In the northern part of the County, agencies have the ability to meet a majority of their demands through groundwater with very little limitation, except for the OCWD BPP.

Mesa Water will also continue to monitor emerging supply and demand conditions related to supplemental imported water from MWDOC/MET and take appropriate actions consistent with the flexibility and adaptiveness inherent to the WSCP. Mesa Water's Annual Assessment was based on Mesa Water's service area, water sources, water supply reliability, and water use as described in Water Code Section 10631, including available data from state, regional, or local agency population, land use development, and climate change projections within the service area of Mesa Water. Some conditions that affect MWDOC's wholesale supply and demand, such as groundwater replenishment, surface water and local supply production, can differ significantly from earlier projections throughout the year.

However, if a major earthquake on the San Andreas Fault occurs, it has the potential to damage all three key regional water aqueducts and disrupt imported supplies for up to six months. The region would likely impose a water use reduction ranging from 10-25% until the system is repaired. However, MET and MWDOC have taken proactive steps to handle such disruption, such as constructing DVL, which mitigates potential impacts. DVL, along with other local reservoirs, can store a six to twelve-month supply of emergency water (MET, 2021b).

3.2.2.3 Water Supply

As detailed in Mesa Water's 2020 UWMP, Mesa Water meets all of its customers' demands with a combination of local groundwater and recycled water. Mesa Water's main source of water supply is groundwater from the OC Basin, with recycled water making up the rest of Mesa Water's water supply portfolio, and imported water from

MET through MWDOC available in the event of an emergency. In fiscal year (FY) 2019-20, Mesa Water relied on 94% groundwater (75% from clear wells and 19% from desalinated groundwater), 6% recycled water, and 0% imported water. It is projected that by 2045, Mesa Water will continue to be 100% reliable on local supplies, with the water supply portfolio remaining approximately the same, and shifting to 95% groundwater and 5% recycled water (Mesa Water, 2021).

3.2.2.4 Unconstrained Customer Demand

The WSCP and Annual Assessment define unconstrained demand as expected water use prior to any projected shortage response actions that may be taken under the WSCP. Unconstrained demand is distinguished from observed demand, which may be constrained by preceding, ongoing, or future actions, such as emergency supply allocations during a multi-year drought. WSCP shortage response actions to constrain demand are inherently extraordinary; routine activities such as ongoing conservation programs and regular operational adjustments are not considered as constraints on demands.

Mesa Water's DRA reveals that its supply capabilities are expected to balance anticipated total water use and supply, assuming a five-year consecutive drought from FY 2020-21 through FY 2024-25 (Mesa Water, 2021). Water demands in a five-year consecutive drought are calculated as a six percent increase in water demand above a normal year for each year of the drought (CDM Smith, 2021).

3.2.2.5 Planned Water Use for Current Year Considering Dry Subsequent Year

Water Code Section 10632(a)(2)(B)(ii) requires the Annual Assessment to determine "current year available supply, considering hydrological and regulatory conditions in the current year and one dry year."

The Annual Assessment will include two separate estimates of Mesa Water's annual water supply and unconstrained demand using: 1) current year conditions, and 2) assumed dry year conditions. Accordingly, the Annual Assessment's shortage analysis will present separate sets of findings for the current year and dry year scenarios. The Water Code does not specify the characteristics of a dry year, allowing discretion to the Supplier. Mesa Water will use its discretion to refine and update its assumptions for a dry year scenarios in each Annual Assessment as information becomes available and in accordance with best management practices.

Supply and demand analyses for the single-dry year case was based on conditions affecting the SWP as this supply availability fluctuates the most among MET's, and therefore MWDOC and Mesa Water's, sources of supply. FY 2013-14 was the single driest year for SWP supplies with an allocation of 5% to Municipal and Industrial (M&I) uses. Unique to this year, the 5% SWP allocation was later reduced to 0%, before ending up at its final allocation of 5%, highlight the stressed water supplies for the year. Furthermore, on January 17, 2014 Governor Brown declared the drought State of Emergency citing 2014 as the driest year in California history. Additionally, within MWDOC's service area, precipitation for FY 2013-14 was the second lowest on record, with 4.37 inches of rain, significantly impacting water demands.

The water demand forecasting model developed for the Demand Forecast TM isolated the impacts that weather and future climate can have on water demand through the use of a statistical model. The impacts of hot/dry weather conditions are reflected as a percentage increase in water demands from the normal year condition (average of FY 2017-18 and FY 2018-19). For a single dry year condition (FY 2013-14), the model projects a 6% increase in demand for the OC Basin area where Mesa Water's service area is located (CDM Smith, 2021). Detailed information of the model is included in Mesa Water's 2020 UWMP.

Mesa Water has documented that it is 100% reliable for single dry year demands from 2025 through 2045 with a demand increase of 6% from normal demand with significant reserves held by MET, local groundwater supplies, and conservation (Mesa Water, 2021).

3.2.2.6 Infrastructure Considerations

The Annual Assessment will include consideration of any infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity.

3.2.2.7 Other Factors

For the Annual Assessment, any known issues related to water quality would be considered for their potential effects on water supply reliability. Mesa Water adheres to the regulatory requirements for groundwater monitoring. As of early 2021, Mesa Water wells are not affected by PFAS and are not part of routine regulatory monitoring for PFAS.

3.3 Six Standard Water Shortage Levels

Per Water Code Section 10632 (a)(3)(A), Mesa Water must include the six standard water shortage levels that represent shortages from the normal reliability as determined in the Annual Assessment. The shortage levels have been standardized to provide a consistent regional and statewide approach to conveying the relative severity of water supply shortage conditions. This is an outgrowth of the severe statewide drought of 2012-2016, and the widely recognized public communication and state policy uncertainty associated with the many different local definitions of water shortage Levels.

The six standard water shortage levels correspond to progressively increasing estimated shortage conditions (up to 10, 20, 30, 40, 50, and greater than 50% shortage compared to the normal reliability condition) and align with the response actions the Supplier would implement to meet the severity of the impending shortages.

Table 3-1: Water Shortage Contingency Plan Levels

Submittal Table 8-1 Water Shortage Contingency Plan Levels		
Shortage Level	**Percent Shortage Range**	**Shortage Response Actions**
0	0% (Normal)	A Level 0 Water Supply Shortage – Mesa Water proceeds with planned water efficiency best practices to support consumer demand reduction in line with state mandated requirements and Mesa Water goals for water supply reliability. Permanent water waste prohibitions are in place as stipulated in Mesa Water's Water Shortage Contingency Response Ordinance.

Submittal Table 8-1
Water Shortage Contingency Plan Levels

Shortage Level	Percent Shortage Range	Shortage Response Actions
1	Up to 10%	A Level 1 Water Supply Shortage – Condition exists when Mesa Water notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 10% is necessary to make more efficient use of water and respond to existing water conditions. Upon the declaration of a Water Aware condition, Mesa Water shall implement the mandatory Level 1 conservation measures identified in this ordinance.
2	11% to 20%	A Level 2 Water Supply Shortage – Condition exists when Mesa Water notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 20% is necessary to make more efficient use of water and respond to existing water conditions. Upon declaration of a Level 2 Water Supply Shortage condition, Mesa Water shall implement the mandatory Level 2 conservation measures identified in this ordinance.
3	21% to 30%	A Level 3 Water Supply Shortage – Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 30% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
4	31% to 40%	A Level 4 Water Supply Shortage – Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
5	41% to 50%	A Level 5 Water Supply Shortage - Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
6	>50%	A Level 6 Water Supply Shortage – Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that greater than 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
NOTES:		

3.4 Shortage Response Actions

Water Code Section 10632 (a)(4) requires the WSCP to specify shortage response actions that align with the defined shortage levels. Mesa Water has defined specific shortage response actions that align with the defined shortage levels in DWR Tables 8-2 and 8-3 (Appendix A). These shortage response actions were developed with consideration to the system infrastructure and operations changes, supply augmentation responses, customer-class or water use-specific demand reduction initiatives, and increasingly stringent water use prohibitions.

3.4.1 Demand Reduction

The demand reduction measures that would be implemented to address shortage levels are described in DWR Table 8-2 (Appendix A). This table indicates which actions align with specific defined shortage levels and estimates the extent to which that action will reduce the gap between supplies and demands. DWR Table 8-2 (Appendix A) demonstrates that the chosen suite of shortage response actions can be expected to deliver the expected outcomes necessary to meet the requirements of a given shortage level (e.g., target of an additional 10% water savings). This table also identifies the enforcement action, if any, associated with each demand reduction measure.

3.4.2 Supply Augmentation

The supply augmentation actions are described in DWR Table 8-3 (Appendix A). These augmentations represent short-term management objectives triggered by the MET's WSDM Plan and do not overlap with the long-term new water supply development or supply reliability enhancement projects. Supply Augmentation is made available to Mesa Water through MET and OCWD. Mesa Water has the ability to pump additional groundwater from the OC Basin or purchase additional imported water from MET as a MET member agency.

MET's reliability portfolio of water supply programs including existing water transfers, storage and exchange agreements to supplement gaps in Mesa Water's supply/demand balance. MET has developed significant storage capacity (over 5 million AF) in reservoirs and groundwater banking programs both within and outside of the Southern California region. Additionally, MET can pursue additional water transfer and exchange programs with other water agencies to help mitigate supply/demand imbalances and provide additional dry-year supply sources.

3.4.3 Operational Changes

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. Mesa Water will consider their operational procedures when it completes its Annual Assessment or as needed to identify changes that can be implemented to address water shortage on a short-term basis, such as temporarily altering maintenance cycles, deferring planned system outages, and adjusting the flow and routing of water through its system to more effectively distribute available supply across the service area.

3.4.4 Additional Mandatory Restrictions

Water Code Section 10632(a)(4)(D) calls for "additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions" to be included among the WSCP's shortage response actions. Mesa Water will identify additional mandatory restrictions as needed based on the existing Ordinance No. 33, Water Shortage Response Ordinance (Appendix B). Mesa

Water intends to update any mandatory restrictions in a subsequently adopted ordinance which will supersede the existing ordinance.

3.4.5 Emergency Response Plan (Hazard Mitigation Plan)

A catastrophic water shortage would be addressed according to the appropriate water shortage level and response actions. It is likely that a catastrophic shortage would immediately trigger Shortage Level 6 and response actions have been put in place to mitigate a catastrophic shortage. In addition, there are several Plans that address catastrophic failures and align with the WSCP, including MET's WSDM and WSAP, Mesa Water's HMP, and the Water Emergency Response Organization of Orange County (WEROC)'s Emergency Operations Plan (EOP).

3.4.5.1 MET's WSDM and WSAP

MET has comprehensive plans for stages of actions it would undertake to address a catastrophic interruption in water supplies through its WSDM and WSAP. MET also developed an Emergency Storage Requirement to mitigate against potential interruption in water supplies resulting from catastrophic occurrences within the Southern California region, including seismic events along the San Andreas Fault. In addition, MET is working with the state to implement a comprehensive improvement plan to address catastrophic occurrences outside of the Southern California region, such as a maximum probable seismic event in the Sacramento-San Joaquin River Delta that would cause levee failure and disruption of SWP deliveries.

3.4.5.2 Water Emergency Response Organization of Orange County Emergency Operations Plan

In 1983, the Orange County water community identified a need to develop a plan on how agencies would respond effectively to disasters impacting the regional water distribution system. The collective efforts of these agencies resulted in the formation of WEROC to coordinate emergency response on behalf of all Orange County water and wastewater agencies, develop an emergency plan to respond to disasters, and conduct disaster training exercises for the Orange County water community. WEROC was established with the creation of an indemnification agreement between its member agencies to protect each other against civil liabilities and to facilitate the exchange of resources. WEROC is unique in its ability to provide a single point of contact for representation of all water and wastewater utilities in Orange County during a disaster. This representation is to the county, state, and federal disaster coordination agencies. Within the Orange County Operational Area, WEROC is the recognized contact for emergency response for the water community, including Mesa Water.

As a member of WEROC, Mesa Water will follow WEROC's EOP in the event of an emergency and coordinate with WEROC to assess damage, initiate repairs, and request and coordinate mutual aid resources in the event that Mesa Water is unable to provide the level of emergency response support required by the situation.

The EOP defines the actions to be taken by WEROC Emergency Operations Center (EOC) staff to reduce the loss of water and wastewater infrastructure; to respond effectively to a disaster; and to coordinate recovery operations in the aftermath of any emergency involving extensive damage to Orange County water and wastewater utilities. The EOP includes activation notification protocol that will be used to contact partner agencies to inform them of the situation, activation status of the EOC, known damage or impacts, or resource needs. The EOP is a standalone document that is reviewed annually and approved by the Board every three years.

WEROC is organized on the basis that each member agency is responsible for developing its own EOP in accordance with the California Standardized Emergency Management System (SEMS), National Incident Management System (NIMS), and Public Health Security and Bioterrorism Preparedness and Response Act of 2002 to meet specific emergency needs within its service area.

The WEROC EOC is responsible for assessing the overall condition and status of the Orange County regional water distribution and wastewater collection systems including MET facilities that serve Orange County. The EOC can be activated during an emergency situation that can result from both natural and man-made causes, and can be activated through automatic, manual, or standby for activation.

WEROC recognized four primary phases of emergency management, which include:

- **Preparedness:** Planning, training, and exercises that are conducted prior to an emergency to support and enhance response to an emergency or disaster.
- **Response:** Activities and programs designed to address the immediate and short-term effects of the onset of an emergency or disaster that helps to reduce effects to water infrastructure and speed recovery. This includes alert and notification, EOC activation, direction and control, and mutual aid.
- **Recovery:** This phase involved restoring systems to normal, in which short-term recovery actions are taken to assess the damage and return vital life-support systems to minimum operating standards, while long-term recovery actions have the potential to continue for many years.
- **Mitigation/Prevention:** These actions prevent the occurrence of an emergency or reduce the area's vulnerability in ways that minimize the adverse impacts of a disaster or emergency. MWDOC's HMP outlines threats and identifies mitigation projects.

The EOC Action Plans (EAP) provide frameworks for EOC staff to respond to different situations with the objectives and steps required to complete them, which will in turn serve the WEROC member agencies. In the event of an emergency which results in a catastrophic water shortage, Mesa Water will declare a water shortage condition of up to Level 6 for the impacted area depending on the severity of the event, and coordination with WEROC is anticipated to begin at Level 4 or greater (WEROC, 2018).

3.4.6 Mesa Water District Emergency Response Plan

Mesa Water will also refer to its current American Water Infrastructure Act Risk and Resilience Assessment and Emergency Response Plan in the event of a catastrophic supply interruption.

3.4.7 Seismic Risk Assessment and Mitigation Plan

Per the Water Code Section 10632.5, Suppliers are required to assess seismic risk to water supplies as part of their WSCP. The plan also must include the mitigation plan for the seismic risk(s). Given the great distances that imported supplies travel to reach Orange County, the region is vulnerable to interruptions along hundreds of miles of aqueducts, pipelines and other facilities associated with delivering the supplies to the region. Additionally, the infrastructure in place to deliver supplies are susceptible to damage from earthquakes and other disasters.

In lieu of conducting a seismic risk assessment specific to Mesa Water's 2020 UWMP, Mesa Water has included the previously prepared regional HMP by MWDOC as the regional imported water wholesaler that is required under the federal Disaster Mitigation Act of 2000 (Public Law 106-390).

MWDOC's HMP identified that the overarching goals of the HMP were the same for all of its member agencies, which include:

- Goal 1: Minimize vulnerabilities of critical infrastructure to minimize damages and loss of life and injury to human life caused by hazards.
- Goal 2: Minimize security risks to water and wastewater infrastructure.
- Goal 3: Minimize interruption to water and wastewater utilities.
- Goal 4: Improve public outreach, awareness, education, and preparedness for hazards in order to increase community resilience.
- Goal 5: Eliminate or minimize wastewater spills and overflows.
- Goal 6: Protect water quality and supply, critical aquatic resources, and habitat to ensure a safe water supply.
- Goal 7: Strengthen Emergency Response Services to ensure preparedness, response, and recovery during any major or multi-hazard event.

MWDOC's HMP evaluates hazards applicable to all jurisdictions in its entire planning area, prioritized based on probability, location, maximum probable extent, and secondary impacts. The identification of hazards is highly dependent on the location of facilities within Mesa Water's jurisdiction and takes into consideration the history of the hazard and associated damage, information provided by agencies specializing in a specific hazard, and relies upon Mesa Water's expertise and knowledge.

Earthquake fault rupture and seismic hazards, including ground shaking and liquefaction, are among the highest ranked hazards to the region as a whole because of its long history of earthquakes, with some resulting in considerable damage. A significant earthquake along one of the major faults could cause substantial casualties, extensive damage to infrastructure, fires, damages and outages of water and wastewater facilities, and other threats to life and property.

Nearly all of Orange County is at risk of moderate to extreme ground shaking, with liquefaction possible throughout much of Orange County but the most extensive liquefaction zones occur in coastal areas. Based on the amount of seismic activity that occurs within the region, there is no doubt that communities within Orange County will continue to experience future earthquake events, and it is a reasonable assumption that a major event will occur within a 30-year timeframe.

The mitigation actions identify the hazard, proposed mitigation action, location/facility, local planning mechanism, risk, cost, timeframe, possible funding sources, status, and status rationale, as applicable. Mitigation actions for MWDOC's member agencies for seismic risks may include (MWDOC, 2019):

- Secure above ground assets in all buildings, booster stations, pressure reducing stations, emergency interties, water systems, and pipelines.
- Conduct assessment of infrastructure to ensure seismic retrofitting is in place.
- Replace aging infrastructure throughout the District.
- Install backup power for critical facilities to ensure operability during emergency events.
- Enhance emergency operability by implementing communication infrastructure improvements.

3.4.8 Shortage Response Action Effectiveness

For each specific Shortage Response Action identified in the WSCP, the plan also estimates the extent to which that action will reduce the gap between supplies and demands identified in DWR Table 8-2 (Appendix A). To the

extent feasible, Mesa Water has estimated percentage savings for the chosen suite of shortage response actions, which can be anticipated to deliver the expected outcomes necessary to meet the requirements of a given shortage level.

3.5 Communication Protocols

Timely and effective communication is a key element of the WSCP implementation. In the context of water shortage response, the purpose may be an emergency water shortage situation, such as may result from an earthquake, or a longer-term, non-emergency, shortage condition, such as may result from a drought. In an emergency, Mesa Water will activate the communication protocol detailed in the Emergency Response Plan. In a non-emergency water shortage situation, Mesa Water will implement the communication protocols described below.

Per Water Code Section 10632 (a)(5), Mesa Water has established communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments regarding any current or predicted shortages as determined by the Annual Assessment described pursuant to Section 10632.1; any shortage response actions triggered or anticipated to be triggered by the Annual Assessment described pursuant to Section 10632.1; and any other relevant communications.

Non-emergency water shortage communication protocols are focused on communicating the water shortage contingency planning actions that can be derived from the results of the Annual Assessment, and it would likely trigger based upon the decision-making process in Section 3.2. Prior to water shortage level declaration, Mesa Water will pursue outreach to inform customers of water shortage levels and definitions, targeted water savings for each drought stage, guidelines that customers are to follow during each level, and sources of current information on Mesa Water's supply and demand response status.

The type and degree of communication will vary with each shortage level in order to inform stakeholders of the current water shortage level status and associated shortage response actions, as defined in Section 3.4.1. Predefined communication objectives and tools will ensure Mesa Water's ability to message necessary events and information to ensure compliance with shortage response actions. These communication objectives and tools are summarized in Table 3-2.

The Mesa Water's Public Relations department will lead public information and outreach efforts in close coordination with other MWDOC and MET. Mesa Water will share information and provide guidance to its customers as well as monitor the customer response and attitude toward both voluntary and mandatory customer response guidelines. Mesa Water's customer outreach is required to successfully achieve targeted water savings during each shortage level.

Table 3-2: Communication Procedures

Shortage level	Communication Objectives	Communication Tools
1	Compliance with response actions, 10% reduction in water use	Communications at this stage will highlight water efficiency best practices and will include the following communication tools and tactics, but are not limited to:

Shortage level	Communication Objectives	Communication Tools
		– Information on Mesa Water's website – Information in Mesa Water's newsletter, News on Tap
2	Compliance with response actions, 20% reduction in water use	Communications at this stage will highlight water efficiency best practices and will include the following communication tools and tactics, but are not limited to: Same as shortage Level 1, in addition to: – Social Media – Educational outreach (via community events or partnerships)
3	Compliance with response actions, 30% reduction in water use	In conjunction with Table 3□1: Water Shortage Contingency Plan Levels, this stage is now a water shortage emergency. Same as shortage Level 1-2, in addition to: – Text and email notification alerts via Mesa Water Notify – Water bill inserts – Direct mail to homes and businesses (postcards or other mailers) – Direct communication with high water users – Press release/ media outreach – Communication coordination with local emergency or water member agencies, including but not limited to WEROC, ACWA, OCWD, MWDOC, for messaging and broader county communications plan – Communication coordination with City of Costa Mesa and other related agencies (Police Dept, Fire Dept, as needed) – Communication coordination with area Hospitals, Newport-Mesa Unified School District, Colleges, Costa Mesa Chamber of

Shortage level	Communication Objectives	Communication Tools
		Commerce and other key stakeholders and partners
4	Compliance with response actions, 40% reduction in water use	Same as shortage Level 1-3, in addition to: – Radio and/or public service announcements – Increased presence at local events – Publications and handouts
5	Compliance with response actions, 50% reduction in water use	Same as shortage Level 1-4, in addition to: – Neighborhood Canvasing – Neighborhood Meetings or Pop-ups – Advertisements (print and digital) in local publications, key businesses and landmarks – Increased communication coordination with local emergency or water member agencies, including but not limited to WEROC, ACWA, OCWD, MWDOC – Increased communication coordination with City of Costa Mesa and other related agencies (Police Dept, Fire Dept as needed)
6	Compliance with response actions, >50% reduction in water use	Same as shortage Level 1-5, in addition to: – Increased Neighborhood Canvasing – Increased Neighborhood Meetings or Pop-ups

3.6 Compliance and Enforcement

Per the Water Code Section 10632 (a)(6), Mesa Water has defined customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions. Procedures to ensure customer compliance are described in Section 3.5 Communication Protocols and customer enforcement, appeal, and exemption procedures are defined in the existing Ordinance No. 33, Water Shortage Response Ordinance (Appendix B). Mesa Water intends to update any enforcement procedures in a subsequently adopted ordinance which will supersede the existing ordinance.

3.7 Legal Authorities

Per Water Code Section 10632 (a)(7)(A), Mesa Water has provided a description of the legal authorities that empower Mesa Water to implement and enforce its shortage response in Ordinance No. 33, Water Shortage Response Ordinance (Appendix B).

Per Water Code Section 10632 (a)(7) (B), Mesa Water shall declare a water shortage emergency condition to prevail within the area served by such wholesaler whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

Per Water Code Section 10632 (a)(7)(C), Mesa Water shall coordinate with any city or county within which it provides water supply services for the possible proclamation of a local emergency under California Government Code, California Emergency Services Act (Article 2, Section 8558). Table 3-3 identifies the contacts for all cities or counties for which the Supplier provides service in the WSCP, along with developed coordination protocols, can facilitate compliance with this section of the Water Code in the event of a local emergency as defined in subpart (c) of Government Code Section 8558.

Table 3-3: Agency Contacts and Coordination Protocols

Contact	Agency	Coordination Protocols
Public Works Director	County of Orange	Phone/email
City Manager	City of Costa Mesa	Phone/email
City Manager	City of Newport Beach	Phone/email

3.8 Financial Consequences of WSCP

Per Water Code Section 10632(a)(8), Suppliers must include a description of the overall anticipated financial consequences to the Supplier of implementing the WSCP. This description must include potential reductions in revenue and increased expenses associated with implementation of the shortage response actions. This should be coupled with an identification of the anticipated mitigation actions needed to address these financial impacts.

During a catastrophic interruption of water supplies, prolonged drought, or water shortage of any kind, Mesa Water will experience a reduction in revenue due to reduced water sales. Throughout this period of time, expenditures may increase or decrease with varying circumstances. Expenditures may increase in the event of significant damage to the water system, resulting in emergency repairs. Expenditures may also decrease as less water is pumped through the system, resulting in lower power costs. Water shortage mitigation actions will also impact revenues and require additional costs for drought response activities such as increased staff costs for tracking, reporting, and communications.

Mesa Water receives water revenue from a service charge and a commodity charge based on consumption. The service charge recovers costs associated with providing water to the serviced property. The service charge does

not vary with consumption and the commodity charge is based on water usage. Rates have been designed to recover the full cost of water service in the charges. Therefore, the total cost of purchasing water would decrease as the usage or sale of water decreases. In the event of a drought emergency, Mesa Water will impose excessive water use penalties on its customers, which may include additional costs associated with reduced water revenue, staff time taken for penalty enforcement, and advertising the excessive use penalties. The excessive water use penalties are further described in Ordinance No. 33, Water Shortage Contingency Response Ordinance (Appendix B).

However, there are significant fixed costs associated with maintaining a minimal level of service. Mesa Water will monitor projected revenues and expenditures should an extreme shortage and a large reduction in water sales occur for an extended period of time. To overcome these potential revenue losses and/or expenditure impacts, Mesa Water may use reserves. If necessary, Mesa Water may reduce expenditures by delaying implementation of its Capital Improvement Program and equipment purchases to reallocate funds to cover the cost of operations and critical maintenance, adjust the work force, implement a drought surcharge, and/or make adjustments to its water rate structure.

Based on current water rates, a volumetric cutback of 50% and above of water sales may lead to a range of reduction in revenues. The impacts to revenues will depend on a proportionate reduction in variable costs related to supply, pumping, and treatment for the specific shortage event. Mesa Water has set aside reserve funding as a Drought Reserve Fund to mitigate short-term water shortage situation.

3.9 Monitoring and Reporting

Per Water Code Section 10632(a)(9), Mesa Water is required to provide a description of the monitoring and reporting requirements and procedures that have been implemented to ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

Monitoring and reporting key water use metrics is fundamental to water supply planning and management. Monitoring is also essential in times of water shortage to ensure that the response actions are achieving their intended water use reduction purposes, or if improvements or new actions need to be considered (see Section 3.10). Monitoring for customer compliance tracking is also useful in enforcement actions.

Under normal water supply conditions, potable water production figures are recorded monthly. Monthly reports are prepared and monitored. This data will be used to measure the effectiveness of any water shortage contingency level that may be implemented. Mesa Water has initiated a real-time Meter Technology Project that allows monitoring and reporting of its largest customers' water consumption to ensure conservation measures and water shortage mitigation is effective.

Mesa Water will participate in monthly member agency manager meetings with both MWDOC and OCWD to monitor and discuss monthly water allocation charts. This will enable Mesa Water to be aware of import and groundwater use on a timely basis as a result of specific actions taken responding to Mesa Water's WSCP.

3.10 WSCP Refinement Procedures

Per Water Code Section 10632 (a)(10), Mesa Water must provide reevaluation and improvement procedures for systematically monitoring and evaluating the functionality of the water shortage contingency plan in order to ensure shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed.

Mesa Water's WSCP is prepared and implemented as an adaptive management plan. Mesa Water will use the monitoring and reporting process defined in section 3.9 to refine the WSCP. In addition, if certain procedural refinements or new actions are identified by Mesa Water staff, or suggested by customers or other interested parties, Mesa Water will evaluate their effectiveness, incorporate them into the WSCP, and implement them quickly at the appropriate water shortage level.

It is envisioned that the WSCP will be periodically re-evaluated to ensure that its shortage risk tolerance is adequate and the shortage response actions are effective and up to date based on lessons learned from implementing the WSCP. The WSCP will be revised and updated during the UWMP update cycle to incorporate updated and new information. For example, new supply augmentation actions will be added, and actions that are no longer applicable for reasons such as program expiration will be removed. However, if revisions to the WSCP are warranted before the UWMP is updated, the WSCP will be updated outside of the UWMP update cycle. In the course of preparing the Annual Assessment each year, Mesa Water staff will consider the functionality the overall WSCP and will prepare recommendations for Mesa Water's Board of Directors if changes are found to be needed.

3.11 Special Water Feature Distinction

Per Water Code Section 10632 (b), Mesa Water has defined water features in that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas, as defined in subdivision (a) of Section 115921 of the Health and Safety Code, in Ordinance No. 33, Water Shortage Response Ordinance (Appendix B).

3.12 Plan Adoption, Submittal, and Availability

Per Water Code Section 10632 (a)(c), Mesa Water provided notice of the availability of the draft 2020 UWMP and draft 2020 WSCP and notice of the public hearing to consider adoption of the WSCP. The public review drafts of the 2020 UWMP and the 2020 WSCP were posted prominently on Mesa Water's website in advance of the public hearing on June 10, 2021. Copies of the draft WSCP were also made available for public inspection at Mesa Water Clerk's and Utilities Department offices and public hearing notifications were published in local newspapers. A copy of the published Notice of Public Hearing is included in Appendix C.

Mesa Water held the public hearing for the draft 2020 UWMP and draft WSCP on June 10, 2021 at the Board meeting. Mesa Water Board reviewed and approved the 2020 UWMP and the WSCP at its June 10, 2021 meeting after the public hearing. See Appendix D for the resolution approving the WSCP.

By July 1, 2021, Mesa Water's adopted 2020 UWMP and WSCP was filed with DWR, California State Library, and the County of Orange. Mesa Water will make the WSCP available for public review on its website no later than 30 days after filing with DWR.

Based on DWR's review of the WSCP, Mesa Water will make any amendments in its adopted WSCP, as required and directed by DWR.

If Mesa Water revises its WSCP after UWMP is approved by DWR, then an electronic copy of the revised WSCP will be submitted to DWR within 30 days of its adoption.

4 REFERENCES

CDM Smith. (2021, March 30). *Orange County Water Demand Forecast for MWDOC and OCWD Technical Memorandum.*

Mesa Water. (2021, July). *2020 Urban Water Management Plan*.

Metropolitan Water District of Southern California (MET). (2021a, March). *Water Shortage Contingency Plan*. http://www.mwdh2o.com/PDF_About_Your_Water/Draft_Metropolitan_WSCP_March_2021.pdf

Metropolitan Water District of Southern California (MET). (2021b, June). *2020 Urban Water Management Plan.*

Metropolitan Water District of Southern California (MET). (1999, August). *Water Surplus and Drought Management Plan*. http://www.mwdh2o.com/PDF_About_Your_Water/2.4_Water_Supply_Drought_Management_Plan.pdf

Municipal Water District of Orange County (MWDOC). (2016). *Water Supply Allocation Plan*.

Municipal Water District of Orange County (MWDOC). (2019, August). *Orange County Regional Water and Wastewater Hazard Mitigation Plan*.

Water Emergency Response Organization of Orange County (WEROC). (2018, March). *WEROC Emergency Operations Plan (EOP).*

Appendix A

DWR Submittal Tables

Table 8-1: Water Shortage Contingency Plan Levels

Table 8-2: Demand Reduction Actions

Table 8-3: Supply Augmentation and Other Actions

Submittal Table 8-1 Water Shortage Contingency Plan Levels		
Shortage Level	**Percent Shortage Range**	**Shortage Response Actions** (*Narrative description*)
0	0% (Normal)	A Level 0 Water Supply Shortage – Mesa Water proceeds with planned water efficiency best practices to support consumer demand reduction in line with state mandated requirements and Mesa Water goals for water supply reliability. Permanent water waste prohibitions are in place as stipulated in Mesa Water's Water Shortage Contingency Response Ordinance.
1	Up to 10%	A Level 1 Water Supply Shortage – Condition exists when Mesa Water notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 10% is necessary to make more efficient use of water and respond to existing water conditions. Upon the declaration of a Water Aware condition, Mesa Water shall implement the mandatory Level 1 conservation measures identified in this ordinance.
2	11% to 20%	A Level 2 Water Supply Shortage – Condition exists when Mesa Water notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 20% is necessary to make more efficient use of water and respond to existing water conditions. Upon declaration of a Level 2 Water Supply Shortage condition, Mesa Water shall implement the mandatory Level 2 conservation measures identified in this ordinance.
3	21% to 30%	A Level 3 Water Supply Shortage – Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 30% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
4	31% to 40%	A Level 4 Water Supply Shortage - Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
5	41% to 50%	A Level 5 Water Supply Shortage - Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
6	>50%	A Level 6 Water Supply Shortage – Condition exists when Mesa Water declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that greater than 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. Mesa Water must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
NOTES:		

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
Add additional rows as needed				
0	Landscape - Other landscape restriction or prohibition	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**Irrigation During Rain Events:** The application of potable water to outdoor landscapes during and up to forty-eight (48) hours after measurable rainfall is prohibited.	Yes
0	Landscape - Prohibit certain types of landscape irrigation	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**Irrigated Medians:** The use of potable water to irrigate ornamental turf on public street medians is prohibited.	Yes
0	Landscape - Restrict or prohibit runoff from landscape irrigation	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**No Excessive Water Flow or Runoff:** No person shall cause or allow watering or irrigating of any lawn, landscape or other vegetated area in a manner that causes or allows excessive runoff from the property. Additionally, to the extent prohibited by any Statewide statute, or regulation adopted by any State agency with jurisdiction to adopt such regulations, including, but no limited to, the State Water Resources Control Board, no person shall cause or allow water to flow or runoff their property onto adjacent property, non-irrigated areas, private and public walkways, driveways, roadways, gutters or ditches, parking lots, or structures.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
0	Other - Prohibit use of potable water for washing hard surfaces	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**No Washing Down Hard or Paved Surfaces:** Washing down hard or paved surfaces, including but not limited to sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys, is prohibited except when necessary to alleviate safety or sanitary hazards, and then only by use of a hand-held bucket or similar container, a hand-held hose equipped with a fully functioning, positive self-closing water shut-off device, a low-volume, high-pressure cleaning machine equipped to recycle any water used, or a low-volume high-pressure water broom.	Yes
0	Water Features - Restrict water use for decorative water features, such as fountains	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**Re-circulating Water Required for Water Fountains and Decorative Water Features:** Operating a water fountain or other decorative water feature that does not use re-circulated water is prohibited.	Yes
0	Other - Require automatic shut of hoses	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**Limits on Washing Vehicles:** Using water to wash or clean a vehicle, including but not limited to any automobile, truck, van, bus, motorcycle, boat or trailer, whether motorized or not is prohibited, except by use of a hand-held bucket or similar container or a hand-held hose equipped with a fully functioning, positive self-closing water shut-off nozzle or device that causes it to cease dispensing water immediately when not in use. This subsection does not apply to any commercial car washing facility.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
0	Other	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**No Installation of Single Pass Cooling Systems:** Installation of single pass cooling systems is prohibited in buildings requesting new water service from Mesa Water District.	Yes
0	CII - Other CII restriction or prohibition	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**No Installation of Non-re-circulating in Commercial Car Wash and Laundry Systems:** Installation of non-re-circulating water systems is prohibited in new commercial conveyor car wash and new commercial laundry systems.	Yes
0	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**Commercial Car Wash Systems:** All commercial conveyor car wash systems must utilize re-circulating water systems, or must secure a waiver of this requirement from Mesa Water Distirct.	Yes
0	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	**Obligation to Fix Leaks, Breaks or Malfunctions**: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within ninty-six (96) hours of notification by Mesa Water District, or turned off, unless other arrangements are made with the District.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
1	Landscape - Limit landscape irrigation to specific times	5%	**Limits on Watering Hours:** Watering or irrigating of lawn, landscape, or other vegetated area with potable water is prohibited between the hours of 8:00 a.m. and 5:00 p.m. Pacific Standard Time on any day. Hand-held watering cans, buckets, or similar containers reasonably used to convey water for irrigation purposes are not subject to these time restrictions. Similarly, a hand-held hose equipped with a fully functioning, positive self-closing water shut-off nozzle or device may be used during the otherwise restricted period. If necessary, and for very short periods of time for the express purpose of adjusting or repairing it, one may operate an irrigation system during the otherwise restricted period.	Yes
1	Landscape - Limit landscape irrigation to specific days	10%	**Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of five (5) days per week on a schedule established and posted by Mesa Water District by a Resolution of the Board of Directors. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
2	Landscape - Limit landscape irrigation to specific days	10%	**Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of four (4) days per week on a schedule established and posted by Mesa Water District by a Resolution of the Board of Directors. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.	Yes
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	3%	**Obligation to Fix Leaks, Breaks or Malfunctions**: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within seventy-two (72) hours of notification by Mesa Water District, or turned off, unless other arrangements are made with the District.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
3	Landscape - Limit landscape irrigation to specific days	10%	**Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of three (3) days per week on a schedule established and posted by Mesa Water District by a Resolution of the Board of Directors. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.	Yes
3	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	3%	**Obligation to Fix Leaks, Breaks or Malfunctions**: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within forty-eight (48) hours of notification by Mesa Water District, or turned off, unless other arrangements are made with the District.	Yes
3	Water Features - Restrict water use for decorative water features, such as fountains	2%	**Limits on Filling Ornamental Fountains, Lakes, and Ponds**: Filling or re-filling ornamental fountains, lakes, and ponds is prohibited, except to the extent needed to sustain aquatic life, provided that such animals have been actively managed within the water feature prior to declaration of a supply shortage level under this Conservation Program.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
4	Landscape - Limit landscape irrigation to specific days	10%	**Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of two (2) days per week on a schedule established and posted by Mesa Water District by a Resolution of the Board of Directors. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.	Yes
4	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	3%	**Obligation to Fix Leaks, Breaks or Malfunctions**: All leaks, breaks, or other malfunctions in the water user's plumbing or distribution system must be repaired within twenty four (24) hours of notification by Mesa Water District, or turned off, unless other arrangements are made with the District.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
5	Landscape - Limit landscape irrigation to specific days	10%	**Designated Watering Days:** Watering or irrigating of lawn, landscape, or other vegetated area is limited up to a maximum of one (1) day per week on a schedule established and posted by Mesa Water District by a Resolution of the Board of Directors. This provision does not apply to watering or irrigating by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off nozzle or device, or for very short periods of time for the express purpose of adjusting or repairing an irrigation system, and then only while under the supervision of a competent person.	Yes
5	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	3%	**Car Washing at Commercial Facilities Only:** Washing of motor vehicles, trailers, boats, aircraft and other types of mobile equipment shall be done only at a commercial car wash with water recycling facilities. No restrictions apply where the healthy, safety, and welfare of the public is contingent upon frequent vehicle cleaning, such as with refuse trucks and vehicles used to transport food and perishables.	Yes
5	Other water feature or swimming pool restriction	2%	**No Initial Filling or Re-Filling of Swimming Pools & Spas:** Filling and Re-Filling of residential swimming pools or outdoor spas with water is prohibited.	Yes

Submittal Table 8-2: Demand Reduction Actions				
Shortage Level	Demand Reduction Actions ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*	Penalty, Charge, or Other Enforcement? ***For Retail Suppliers Only*** *Drop Down List*
6	Landscape - Prohibit all landscape irrigation	10%	**No Watering or Irrigating:** Watering or irrigating of lawn, landscape, or other vegetated area is prohibited. This restriction does not apply to the following categories of use: Maintenance of vegetation, including trees and shrubs, that are watered using a hand-held bucket or similar container, hand-held hose equipped with a positive self–closing water shut-off nozzle or device; Maintenance of existing landscape necessary for fire protection; Maintenance of existing landscape for soil erosion control; Maintenance of plant materials identified to be rare or essential to the well-being of protected species. Maintenance of landscape within active public parks and playing fields, day care centers, golf course greens, and school grounds, provided that such irrigation does not exceed a maximum of two (2) days per week according to the schedule established in Section 8(b)(1) and time restrictions in Section 6(a); Actively irrigated environmental mitigation projects.	Yes
NOTES:				

Submittal Table 8-3: Supply Augmentation and Other Actions			
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*
Add additional rows as needed			
1 through 6	Other Purchases	0 - 100%	Additional groundwater pumping in the Orange County Groundwater Basin
1 through 6	Other Purchases	0 - 100%	Additional imported water purchases through MWDOC
1 through 6	Other Purchases	0 - 100%	Interties with City of Santa Ana, City of Newport Beach, and IRWD
NOTES:			

Appendix B

Ordinance No. 33, Water Shortage Response Ordinance

Below is the weblink to the current ordinance (last accessed on May 24, 2021)
https://www.mesawater.org/save-water/conservation-requirements

Appendix C

Notice of Public Hearing (Pending)

Appendix D

Adopted WSCP Resolution (Pending)

Arcadis U.S., Inc.
320 Commerce, Suite 200
Irvine
California 92602
Phone: 714 730 9052
www.arcadis.com

Maddaus Water Management, Inc.
Danville, California 94526
Sacramento, California 95816
www.maddauswater.com

STATE WATER RESOURCES CONTROL BOARD
RESOLUTION NO. 2022-0018

TO ADOPT AN EMERGENCY REGULATION
TO REDUCE WATER DEMAND AND IMPROVE WATER CONSERVATION

WHEREAS:

1. On April 21, May 10, July 8, and October 19, 2021, Governor Newsom issued proclamations that a state of emergency exists statewide due to severe drought conditions and directed state agencies to take immediate action to preserve critical water supplies and mitigate the effects of drought and ensure the protection of health, safety, and the environment.

2. These proclamations urge Californians to reduce their water use.

3. On March 28, 2022, Governor Newsom signed an Executive Order directing the State Water Resources Control Board (State Water Board or Board) to consider adopting emergency regulations to increase water conservation. The Executive Order includes a request that the Board require urban water suppliers to implement Level 2 of their water shortage contingency plans, establish water shortage response actions for urban water suppliers that have not submitted water shortage contingency plans, taking into consideration model actions that the Department of Water Resources, and establish a ban on the irrigation of non-functional turf by entities in the commercial, industrial, and institutional sectors.

4. Many Californians and urban water suppliers have taken bold steps over the years to reduce water use; nevertheless, the severity of the current drought requires additional conservation actions from urban water suppliers, residents, and the commercial, industrial, and institutional sectors.

5. Water conservation is the easiest, most efficient, and most cost-effective way to quickly reduce water demand and extend limited water supplies through this summer and into the next year, providing flexibility for all California communities. Water saved is water available next year, giving water suppliers added flexibility to manage their systems effectively over time. The more water that is conserved now, the less likely it is that a community will experience dire shortages that may require water rationing or other emergency actions.

6. Most Californians use more water outdoors than indoors. In many areas, 50 percent or more of daily water use is for irrigation of lawns and outdoor landscaping irrigation. Outdoor water use is generally discretionary, and many irrigated landscapes would not suffer greatly from receiving a decreased amount of water.

7. The use of potable water to irrigate turf on commercial, industrial, or institutional properties that is not regularly used for human recreational purposes or for civic or community events can be reduced in commercial, industrial, and institutional areas to protect local water resources and enhance water resiliency.

8. Public information and awareness are critical to achieving conservation goals, and the Save Our Water campaign (SaveOurWater.com), run jointly by the Department of Water Resources (DWR) and the Association of California Water Agencies, is an excellent resource for conservation information and messaging that is integral to effective drought response.

9. SaveWater.CA.Gov is an online tool designed to help save water in communities. This website lets anyone easily report water waste from their phone, tablet, or computer by simply selecting the type of water waste they see, typing in the address where the waste is occurring, and clicking send. These reports are filed directly with the State Water Board and relevant local water supplier.

10. Enforcement against water waste is a key tool in conservation programs. When conservation becomes a social norm in a community, the need for enforcement is reduced or eliminated.

11. On March 28, 2022, the Governor suspended the environmental review required by the California Environmental Quality Act to allow State Water Board-adopted drought conservation emergency regulations and other actions to take place quickly to respond to emergency conditions.

12. Water Code section 1058.5 grants the State Water Board the authority to adopt emergency regulations in certain drought years in order to: “prevent the waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion, of water, to promote water recycling or water conservation, to require curtailment of diversions when water is not available under the diverter’s priority of right, or in furtherance of any of the foregoing, to require reporting of diversion or use or the preparation of monitoring reports.”

13. On May 13, 2022, the State Water Board issued public notice that it will consider the adoption of the regulation at the Board’s regularly scheduled May 24, 2022 public meeting, in accordance with applicable State laws and regulations. The State Water Board also distributed for public review and comment a Finding of Emergency that complies with State laws and regulations.

14. The emergency regulation exempts suppliers from enforcing connection moratoria, if their Level 2 demand management actions call for them, because new residential connections are critical to addressing the state’s housing supply shortage. However, the Board recognizes connections for other projects may not be appropriate given the shortage conditions and urges water suppliers to carefully evaluate new development projects for their water use impacts.

15. Disadvantaged communities may require assistance responding to Level 2 conservation requirements, including irrigation restrictions, temporary changes to rate structures, and prohibited water uses. State shortage contingency plans aimed at increasing water conservation, and state and local agencies should look for opportunities to provide assistance in promoting water conservation. This assistance should include but not be limited to translation of regulation text and dissemination of water conservation announcements into languages spoken by at least 10 percent of the people who reside in a water supplier's service area, such as in newspaper advertisements, bill inserts, website homepage, social media, and notices in public libraries.

16. The Board directs staff to consider the following in pursuing any enforcement of section 996, subdivision (e): before imposing monetary penalties, staff shall provide one or more warnings; monetary penalties must be based on an ability to pay determination, consider allowing a payment plan of at least 12 months, and shall not result in a tax lien; and Board enforcement shall not result in shutoff.

17. The Board encourages entities other than Board staff that consider any enforcement of this regulation to apply these same factors identified in resolved paragraph 16. Nothing in the regulation or in the enforcement provisions of the regulation precludes a local agency from exercising its authority to adopt more stringent conservation measures. Moreover, the Water Code does not impose a mandatory penalty for violations of the regulation adopted by this resolution, and local agencies retain their enforcement discretion in enforcing the regulation, to the extent authorized, and may develop their own progressive enforcement practices to encourage conservation.

THEREFORE BE IT RESOLVED THAT:

1. The State Water Board adopts California Code of Regulations, title 23, section 996, as appended to this resolution as an emergency regulation that applies to urban water suppliers, as defined by Water Code section 10617.

2. State Water Board staff shall submit the regulation to the Office of Administrative Law (OAL) for final approval.

3. If, during the approval process, State Water Board staff, the State Water Board, or OAL determines that minor corrections to the language of the regulation or supporting documentation are needed for clarity or consistency, the State Water Board Executive Director or designee may make such changes.

4. This regulation shall remain in effect for one year after filing with the Secretary of State unless the State Water Board determines that it is no longer necessary due to changed conditions or unless the State Water Board renews the regulation due to continued drought conditions, as described in Water Code section 1058.5.

5. The State Water Board directs State Water Board staff to work with the Department of Water Resources and the Save Our Water campaign to disseminate information regarding the emergency regulation.

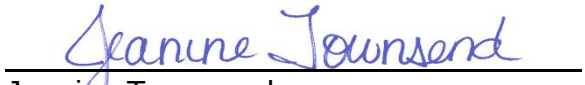
6. The State Water Board directs staff to, by January 1, 2023, survey urban water suppliers on their experience protecting trees and tree cover during drought, with attention to disadvantaged communities. The survey shall inquire about challenges encountered, strategies used, costs, and successes in protecting trees.

7. Nothing in the regulation or in the enforcement provisions of the regulation precludes a local agency from exercising its authority to adopt more stringent conservation measures. Local agencies are encouraged to develop their own progressive enforcement practices to promote conservation.

CERTIFICATION

The undersigned Clerk to the Board does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the State Water Resources Control Board held on May 24, 2022.

AYE:	Chair E. Joaquin Esquivel Vice Chair Dorene D'Adamo Board Member Sean Maguire Board Member Laurel Firestone
NAY:	None
ABSENT:	Board Member Nichole Morgan
ABSTAIN:	None



Jeanine Townsend
Clerk to the Board

ADOPTED EMERGENCY REGULATION TEXT

Version: May 24, 2022

Title 23. Waters

Division 3. State Water Resources Control Board and Regional Water Quality Control Boards

Chapter 3.5. Urban Water Use Efficiency and Conservation

Article 2. Prevention of Drought Wasteful Water Uses

§ 996. Urban Drought Response Actions

(a) As used in this section:

(1) “Commercial, industrial and institutional” refers to commercial water users, industrial water users, and institutional water users as respectively defined in Water Code, section 10608.12, subdivisions (e), (i), and (j), and includes homeowners’ associations, common interest developments, community service organizations, and other similar entities but does not include the residences of these entities’ members or separate interests.

(2) “Common interest development” has the same meaning as in section 4100 of the Civil Code.

(3) “Community service organization or similar entity” has the same meaning as in section 4110 of the Civil Code.

(4) “Homeowners’ association” means an “association” as defined in section 4080 of the Civil Code.

(5) “Non-functional turf” means turf that is solely ornamental and not regularly used for human recreational purposes or for civic or community events. Non-functional turf does not include sports fields and turf that is regularly used for human recreational purposes or for civic or community events.

(6) “Plant factor” has the same meaning as in section 491.

(7) “Separate interest” has the same meaning as in section 4185 of the Civil Code.

(8) “Turf” has the same meaning as in section 491.

(9) “Urban water supplier” has the same meaning as Water Code section 10617.

(10) “Water shortage contingency plan” means the plan required by Water Code section 10632.

(b) Each urban water supplier shall submit to the Department of Water Resources a preliminary annual water supply and demand assessment consistent with section

10632.1 of the Water Code no later than June 1, 2022, and submit a final annual water supply and demand assessment to the Department of Water Resources no later than the deadline set by section 10632.1 of the Water Code.

(c) (1) Each urban water supplier that has submitted a water shortage contingency plan to the Department of Water Resources shall implement by June 10, 2022, at a minimum, all demand reduction actions identified in the supplier's water shortage contingency plan adopted under Water Code 10632 for a shortage level of ten (10) to twenty (20) percent (Level 2).

(2) Notwithstanding subdivision (c)(1), urban water suppliers shall not be required to implement new residential connection moratoria pursuant to this section.

(3) Notwithstanding subdivision (c)(1), an urban water supplier may implement the actions identified in subdivision (d) in lieu of implementing the demand reduction actions identified in the supplier's water shortage contingency plan adopted under Water Code section 10632 for a shortage level of ten (10) to twenty (20) percent (Level 2), provided the supplier meets all of the following:

(i) The supplier's annual water supply and demand assessment submitted to the Department of Water Resources demonstrates an ability to maintain reliable supply until September 30, 2023.

(ii) The supplier does not rely on, for any part of its supply, the Colorado River, State Water Project, or Central Valley Project, and no more than ten (10) percent of its supply comes from critically overdrafted groundwater basins as designated by the Department of Water Resources.

(iii) The supplier's average number of gallons of water used per person per day by residential customers for the year 2020 is below 55 gallons, as reported to the Board in the Electronic Annual Report.

(d) Each urban water supplier that has not submitted a water shortage contingency plan to the Department of Water Resources shall, by June 10, 2022, and continuing until the supplier has implemented all demand reduction actions identified in the supplier's water shortage contingency plan adopted under Water Code 10632 for a shortage level of ten (10) to twenty (20) percent (Level 2), implement at a minimum the following actions:

(1) Initiate a public information and outreach campaign for water conservation and promptly and effectively reach the supplier's customers, using efforts such as email, paper mail, bill inserts, customer app notifications, news articles, websites, community events, radio and television, billboards, and social media.

(2) Implement and enforce a rule or ordinance limiting landscape irrigation with potable water to no more than two (2) days per week and prohibiting landscape irrigation with potable water between the hours of 10:00 a.m. and 6:00 p.m.

(3) Implement and enforce a rule or ordinance banning, at a minimum, the water uses prohibited by section 995. Adoption of a rule or ordinance is not required if the supplier has authority to enforce, as infractions, the prohibitions in section 995 and takes enforcement against violations.

(e) (1) To prevent the unreasonable use of water and to promote water conservation, the use of potable water is prohibited for the irrigation of non-functional turf at commercial, industrial, and institutional sites.

(2) Notwithstanding subdivision (e)(1), the use of water is not prohibited by this section to the extent necessary to ensure the health of trees and other perennial non-turf plantings or to the extent necessary to address an immediate health and safety need.

(3) Notwithstanding subdivision (e)(1), an urban water supplier may approve a request for continued irrigation of non-functional turf where the user certifies that the turf is a low water use plant with a plant factor of 0.3 or less, and demonstrates the actual use is less than 40% of reference evapotranspiration.

(f) The taking of any action prohibited in subdivision (e) is an infraction punishable by a fine of up to five hundred dollars ($500) for each day in which the violation occurs. The fine for the infraction is in addition to, and does not supersede or limit, any other remedies, civil or criminal.

(g) A decision or order issued under this section by the Board, or an officer or employee of the Board, is subject to reconsideration under article 2 (commencing with section 1122) of chapter 4 of part 1 of division 2 of the Water Code.

Authority: Section 1058.5, Water Code.

References: Article X, Section 2, California Constitution; Sections 4080, 4100, 4110, and 4185, Civil Code; Section 8627.7, Government Code; Sections 102, 104, 105, 275, 350, 377, 491, 1122, 10608.12, 10617, 10632, and 10632.1, Water Code; *Light v. State Water Resources Control Board* (2014) 226 Cal.App.4th 1463; *Stanford Vina Ranch Irrigation Co. v. State of California* (2020) 50 Cal.App.5th 976.

MEMORANDUM

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors
FROM: Celeste Carrillo, Public Affairs Coordinator
DATE: June 28, 2022
SUBJECT: Public Affairs Fiscal Year 2022 Accomplishments

RECOMMENDATION

Receive the presentation.

STRATEGIC PLAN

Goal #4: Increase public awareness about Mesa Water and about water.
Goal #6: Provide outstanding customer service.

PRIOR BOARD ACTION

None.

DISCUSSION

Mesa Water District's (Mesa Water®) outreach program aims to connect Mesa Water with its constituents to achieve Goal #4 of the Board of Directors' (Board) Strategic Plan. Outreach activities include educating and informing the District's constituents about Mesa Water, water issues, and water in general.

In Fiscal Year (FY) 2022, staff put concerted effort toward enhancing its Public Affairs program to increase awareness with customers about who their water provider is, and that Mesa Water delivers 100% local water supply, as measured by the annual customer survey. Staff leveraged the Customer Welcome Program; relaunched a number of in-person events (Water Issues Study Group, Institute for Conservation Research and Education Symposium and Costa Mesa Fish Fry) and used its owned communication channels (social media, direct-mail and newsletter) to expand reach and amplify messaging to new audiences.

FINANCIAL IMPACT

In Fiscal Year 2022, $590,920 is budgeted for Public Affairs Support Services; $461,505 has been spent to date.

ATTACHMENTS

None.

MEMORANDUM

MesaWater DISTRICT®

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors

FROM: Paul E. Shoenberger, P.E., General Manager

DATE: June 28, 2022

SUBJECT: Orange County Grand Jury Report - *Water in Orange County Needs "One Voice"*

RECOMMENDATION

Receive the presentation.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #2: Practice perpetual infrastructure renewal and improvement.
Goal #3: Be financially responsible and transparent.
Goal #4: Increase public awareness about Mesa Water and about water.
Goal #5: Attract and retain skilled employees.
Goal #6: Provide outstanding customer service.
Goal #7: Actively participate in regional and statewide water issues.

PRIOR BOARD ACTION/DISCUSSION

None.

DISCUSSION

On June 22, 2022, the Orange County Grand Jury (Grand Jury) released a report addressing the consolidation of Municipal Water District of Orange County (MWDOC) and Orange County Water District (OCWD). The report, entitled *Water in Orange County Needs "One Voice"*, was prepared by the Grand Jury evaluating the efforts of MWDOC and OCWD. The Grand Jury used the following sources in its investigation:

- In-person and virtual interviews. Specifically, interviews of current and former Water District Managers, City and Regional Water Managers and other involved State entities and individuals;
- Water District website meeting minutes and document review;
- Independent research (articles, websites, reports, minutes, documents, etc.);
- Research of applicable State and local water-related statutes and ordinances;
- Site tours of water and sanitation districts' operations;
- Past Grand Jury reports; and
- 2021 Orange County Water Summit.

The Grand Jury has arrived at six findings, as follows:

F1 - A singular water authority for Orange County's wholesale water supply likely would result in further opportunities at the local, State, and federal levels in legislation, policy making and receiving subsidies and grants.

F2 - The current fragmented water system structure and operations provides challenges as it relates to development of new interconnected infrastructure as well as maintenance of existing systems.

F3 - There is a great disparity between the North/Central and South Orange County water sources, management, and operations carried out by OCWD and MWDOC.

F4 - South Orange County has many smaller retail water districts that lack a formal centralized leadership. Notwithstanding this lack of structure, South Orange County retail water districts have displayed effective collaboration when dealing with one another.

F5 - Orange County Water District is a recognized worldwide leader in groundwater resource management and reclamation. Its leadership, innovation, and expertise can be further utilized to serve all of Orange County in developing additional innovative and beneficial programs.

F6 - Orange County currently does not have a countywide coordinated policy regarding water conservation, which results in difficulty when complying with any new State-mandated conservation regulations.

Based on the findings, the Grand Jury's two recommendations are as follows:

R1 - By January 2023, Orange County wholesale water agencies should formally begin analysis and collaboration towards forming a single wholesale water authority or comparable agency to operate and represent wholesale water operations and interests of all imported and ground water supplies. (F1, F2, F3, F4, F6)

R2 - Any future "One Voice" consolidated Orange County wholesale water authority should have Directors that examine and vote on issues considering the unique needs of all water districts. (F1, F2, F3, F4, F6)

California Penal Code Section 933 requires the governing body of any public agency which the Grand Jury has reviewed, and about which it has issued a final report, to comment to the Presiding Judge of the Superior Court on the findings and recommendations no later than 90 days after the Grand Jury publishes its report.

Mesa Water is required to respond by September 20, 2022 to Findings 1, 2, 3, 5, and 6 and Recommendations 1 and 2. Mesa Water is asked to either "agree" with the findings and recommendations or to "disagree" and include an explanation.

FINANCIAL IMPACT

There is no financial impact for the discussion of this matter.

ATTACHMENTS:

Attachment A: Orange County Grand Jury Correspondence (Dated June 17, 2022)
Attachment B: Orange County Grand Jury Report - *Water in Orange County Needs "One Voice"*

RECEIVED
JUN 22 2022
MESA WATER DISTRICT

ORANGE COUNTY GRAND JURY

700 CIVIC CENTER DRIVE WEST • SANTA ANA, CALIFORNIA 92701 • 714/834-3320
www.ocgrandjury.org • FAX 714/834-5555

June 17, 2022

CONFIDENTIAL

Marice E. Depasquale, President
Board of Directors
Mesa Water District
1965 Placentia Avenue
Costa Mesa, CA 92627

Dear Ms. Depasquale:

Enclosed is a copy of the 2021-2022 Orange County Grand Jury report, ***Water in Orange County Needs "One Voice".*** Pursuant to *Penal Code* 933.05(f), a copy of the report is being provided to you at least two working days prior to its public release. Please note that under that subsection, "No officer, agency, department, or governing body of a public agency shall disclose any contents of the report *prior to the public release of the final report.*" (Emphasis added.) It is requested that you provide a response to each of the findings and recommendations of this report directed to your office in compliance with *Penal Code* 933.05(a) and (b), copy enclosed.

Please distribute this report to your governing body.

For each Grand Jury recommendation accepted and not implemented, provide a schedule for future implementation. In addition, by the end of March of each subsequent year, please report on the progress being made on each recommendation accepted but not completed. These annual reports should continue until all recommendations are implemented.

Please mail the response to the recommendations to Erick L. Larsh, Presiding Judge of the Superior Court, 700 Civic Center Drive West, Santa Ana, CA 92701, with a separate copy mailed to the Orange County Grand Jury, 700 Civic Center Drive West, Santa Ana, CA 92701, no later than 90 days after the public release date, June 22, 2022, in compliance with *Penal Code* 933, copy enclosed. The due date then is September 20, 2022.

Should additional time for responding to this report be necessary for further analysis, *Penal Code* 933.05(b)(3) permits an extension of time up to six months from the public release date. Such extensions should be advised in writing, with the information required in *Penal Code* 933.05(b)(3), to the Presiding Judge of the Superior Court, with a separate copy of the request to the Grand Jury.

We tentatively plan to issue the public release on June 22, 2022. Upon public release, the report will be available on the Grand Jury website at www.ocgrandjury.org.

Very truly yours,

Gwen P. Isarowong, Foreperson
2021-2022 ORANGE COUNTY GRAND JURY

GPI:tk

Enclosures: Grand Jury Report
Penal Code 933, 933.05

California Penal Code Sections §933 and §933.05

(Note: To reduce grand jury requests for additional response information, the grand Jury has **bolded** those words in §933.05 which should be appropriately included in a response.)

933. (a) Each grand jury shall submit to the presiding judge of the superior court a final report of its findings and recommendations that pertain to county government matters during the fiscal or calendar year. Final reports on any appropriate subject may be submitted to the presiding judge of the superior court at any time during the term of service of a grand jury. A final report may be submitted for comment to responsible officers, agencies, or departments, including the county board of supervisors, when applicable, upon finding of the presiding judge that the report is in compliance with this title. For 45 days after the end of the term, the foreperson and his or her designees shall, upon reasonable notice, be available to clarify the recommendations of the report.

(b) One copy of each final report, together with the responses thereto, found to be in compliance with this title shall be placed on file with the clerk of the court and remain on file in the office of the clerk. The clerk shall immediately forward a true copy of the report and the responses to the State Archivist who shall retain that report and all responses in perpetuity.

(c) No later than 90 days after the grand jury submits a final report on the operations of any public agency subject to its reviewing authority, the governing body of the public agency shall comment to the presiding judge of the superior court on the findings and recommendations pertaining to matters under the control of the governing body, and every elected county officer or agency head for which the grand jury has responsibility pursuant to Section 914.1 shall comment within 60 days to the presiding judge of the superior court, with an information copy sent to the board of supervisors, on the findings and recommendations pertaining to matters under the control of that county officer or agency head and any agency or agencies which that officer or agency head supervises or controls. In any city and county, the mayor shall also comment on the findings and recommendations. All of these comments and reports shall forthwith be submitted to the presiding judge of the superior court who impaneled the grand jury. A copy of all responses to grand jury reports shall be placed on file with the clerk of the public agency and the office of the county clerk, or the mayor when applicable, and shall remain on file in those offices. One copy shall be placed on file with the applicable grand jury final report by, and in the control of the currently impaneled grand jury, where it shall be maintained for a minimum of five years.

(d) As used in this section "agency" includes a department.

933.05. (a) For purposes of subdivision (b) of Section 933, as to each grand jury finding, the responding person or entity shall indicate one of the following:

(1) The respondent **agrees** with the finding.

(2) The respondent **disagrees wholly** or **partially** with the finding, in which case the response shall specify the portion of the finding that is disputed and shall include an explanation of the reasons therefor.

(b) For purposes of subdivision (b) of Section 933, as to each grand jury recommendation, the responding person or entity shall report one of the following actions:

(1) The recommendation **has been implemented**, with a summary regarding the implemented action.

(2) The recommendation **has not yet been implemented, but will be implemented** in the future, with a **timeframe** for implementation.

(3) The recommendation **requires further analysis**, with an explanation and the scope and parameters of an analysis or study, and a **timeframe** for the matter to be prepared for discussion by the officer or head of the agency or department being investigated or reviewed, including the governing body of the public agency when applicable. This timeframe shall not exceed six months from the date of publication of the grand jury report.

(4) The recommendation **will not be implemented** because it is not warranted or is not reasonable, with an explanation therefor.

(c) However, if a finding or recommendation of the grand jury addresses budgetary or personnel matters of a county agency or department headed by an elected officer, both the agency or department head and the board of supervisors shall respond if requested by the grand jury, but the response of the board of supervisors shall address only those budgetary or personnel matters over which it has some decision making authority. The response of the elected agency or department head shall address all aspects of the findings or recommendations affecting his or her agency or department.

(d) A grand jury may request a subject person or entity to come before the grand jury for the purpose of reading and discussing the findings of the grand jury report that relates to that person or entity in order to verify the accuracy of the findings prior to their release.

(e) During an investigation, the grand jury shall meet with the subject of that investigation regarding the investigation, unless the court, either on its own determination or upon request of the foreperson of the grand jury, determines that such a meeting would be detrimental.

(f) A grand jury shall provide to the affected agency a copy of the portion of the grand jury report relating to that person or entity two working days prior to its public release and after the approval of the presiding judge. No officer, agency, department, or governing body of a public agency shall disclose any contents of the report prior to the public release of the final report.

Water in Orange County Needs “One Voice”

GRAND JURY 2021-2022

Water in Orange County Needs "One Voice"

Table of Contents

SUMMARY

The future of a reliable water supply for California, as well as Orange County (OC), is at risk. The intense dry spell in the West, the worst in 1,200 years, is being labeled a "Mega Drought."[1] Multiple years of drought and inconsistent availability of imported surface water from Northern California and the Colorado River should inspire OC leaders responsible for a reliable water supply to consider new ways to offset the likely depletion of aquifers and reservoirs.

Ronald Reagan once said: "No government ever voluntarily reduced itself in size." However, it is important that Orange County water providers consolidate their resources and establish a unified voice to lead the County more efficiently in its water policies and planning. Multiple water experts agree it is time to coordinate strategies in water conservation, development of new supply and infrastructure, and preparation for the possibility of continued drought, disaster, and State-mandated water cutbacks.

Providing water to Orange County residents is a complicated process and requires the work of water wholesalers and retailers. Retail water agencies (districts and cities) are the direct link to residential and commercial customers. It is they who set the retail price for the water that is delivered. Providers of drinkable water to these retail entities are the wholesalers (suppliers) of imported and local groundwater from the aquifer.

The current structure of wholesale water supply and operations in Orange County, although fragmented between Orange County Water District (OCWD), Metropolitan Water District of Southern California (MET), and Municipal Water District of Orange County (MWDOC), has been successful in providing reliable, high-quality drinking water. While differences in geology and geography dictate different water supplies, no single governmental body is solely responsible for wholesale water policy and operations in Orange County, even though providing future reliable water supply is becoming more challenging.

While the processes of supplying wholesale groundwater and imported water are arguably dramatically different, complex, and should remain separated in OC, the Orange County Grand Jury (OCGJ) has determined that all sources of water are interconnected and would be best administered by one governmental entity. All the water flowing to OC taps looks the same, whether imported or groundwater, so why do we need two wholesale agencies?

This single leadership structure, whether through consolidation of existing dual entities (OCWD and MWDOC) or creation of a new water authority, is achievable through a combination of governance and local and State legislative changes that authorizes the single organization to lead all aspects of Orange County wholesale water. Although any consolidation or formation of a new water agency would pose political, administrative, and operational challenges, the OCGJ concluded that, at long last, it is time for Orange County to operate with "one water voice."

---

[1] February 14, 2022, Peer reviewed study published in the journal *Nature Climate Change* https://doi.org/10.1038/s41558-022-01290-z

BACKGROUND

Multiple prior Grand Jury Reports have addressed water issues, including water challenges and opportunities jointly being faced by all of Orange County. One report pointed out disparities between the North/Central and South County's water sources, the fragmented governance, and the significant differences in topography.[2] Another report informed the public about sustainability of the local water supply and future needs, along with evaluating the efforts of the two major wholesale water agencies in the County.[3]

Orange County relies heavily on imported water for its ongoing supply, as well as some of its groundwater storage replenishment needs. Metropolitan Water District of Southern California (MET) supplies imported water to Southern California. Municipal Water District of Orange County (MWDOC) buys imported water from MET and sells it to Orange County's retail water agencies (cities and special districts). Orange County Water District (OCWD) supplies ground water to the retail water agencies and cities geographically served by the aquifer and wells.

REASON FOR THE STUDY

The consolidation of OCWD and MWDOC has been explored in the past, debated by wholesale and retail water agencies, but ultimately never accomplished. The formation of a new Joint Powers Authority is one option. But no matter how a consolidation would be accomplished, the OCGJ concluded that now is the time to have a single wholesale water supply agency in Orange County. Based on statements made during numerous OCGJ interviews, multiple water professionals support moving from two to one wholesale entity for Orange County.

The OCGJ is concerned that opportunities to operate, innovate, lobby, capitalize and coordinate communication are not being optimized with Orange County's current wholesale water structure, which is split between two key, but very different, agencies. This report will, among other things, address the merits related to the formation of "One Voice" in the Orange County wholesale water structure. It will highlight ways in which Orange County can better address water supply, operations, and infrastructure. The report will not recommend specifically how a single structure comes to fruition legislatively.

METHOD OF STUDY

The Grand Jury evaluated the efforts of the existing primary water entities in Orange County—MWDOC and OCWD—to determine what is working well, and the challenges and opportunities currently existing. In its investigation, the OCGJ used the following sources.

---

[2] 2009-2009 Grand Jury report titled *Paper Water*
[3] 2012-2013 Grand Jury report titled *Orange County Water Sustainability: Who Cares?*

- In-person and virtual interviews. Specifically, interviews of current and former Water District Managers, City and Regional Water Managers and other involved State entities and individuals.
- Water District website meeting minutes and document review.
- Independent research (articles, websites, reports, minutes, documents, etc.).
- Research of applicable State and local water-related statutes and ordinances.
- Site tours of water and sanitation districts' operations.
- Past Grand Jury reports.
- 2021 Orange County Water Summit.

The interviews included personnel from water agencies that represented a cross section of regional and local wholesalers and retailers to obtain a diversity of perspectives based on geography, demographics, and practices. The investigation took into consideration the variety of characteristics that exist in the County, including:

- North compared to South County sources of water supply (reliance on imported water).
- Variety of projects to provide water supplies during normal and emergency times.
- Diversity of projects and plans to increase reliable sources of water supply including. categories related to conservation, recycling for irrigation and potable use, storage, desalination options, etc.
- Multi-agency collaboration.

INVESTIGATION AND ANALYSIS

Overall, California water sources come from imported supplies (State Water Project in Northern California and the Colorado River), groundwater, stormwater, water transfers, desalination, and water recycling. Orange County, like the rest of California, relies on a variety of sources, with the exception of desalination which is currently in the planning stage.

Status Quo

To best understand the background of wholesale water in California, and specifically Orange County, one must examine the three major governmental agencies involved: Metropolitan Water District of Southern California (MET), Municipal Water District of Orange County (MWDOC), and Orange County Water District (OCWD). These agencies have similar names but very different responsibilities. The role of retail water districts will also be explained.

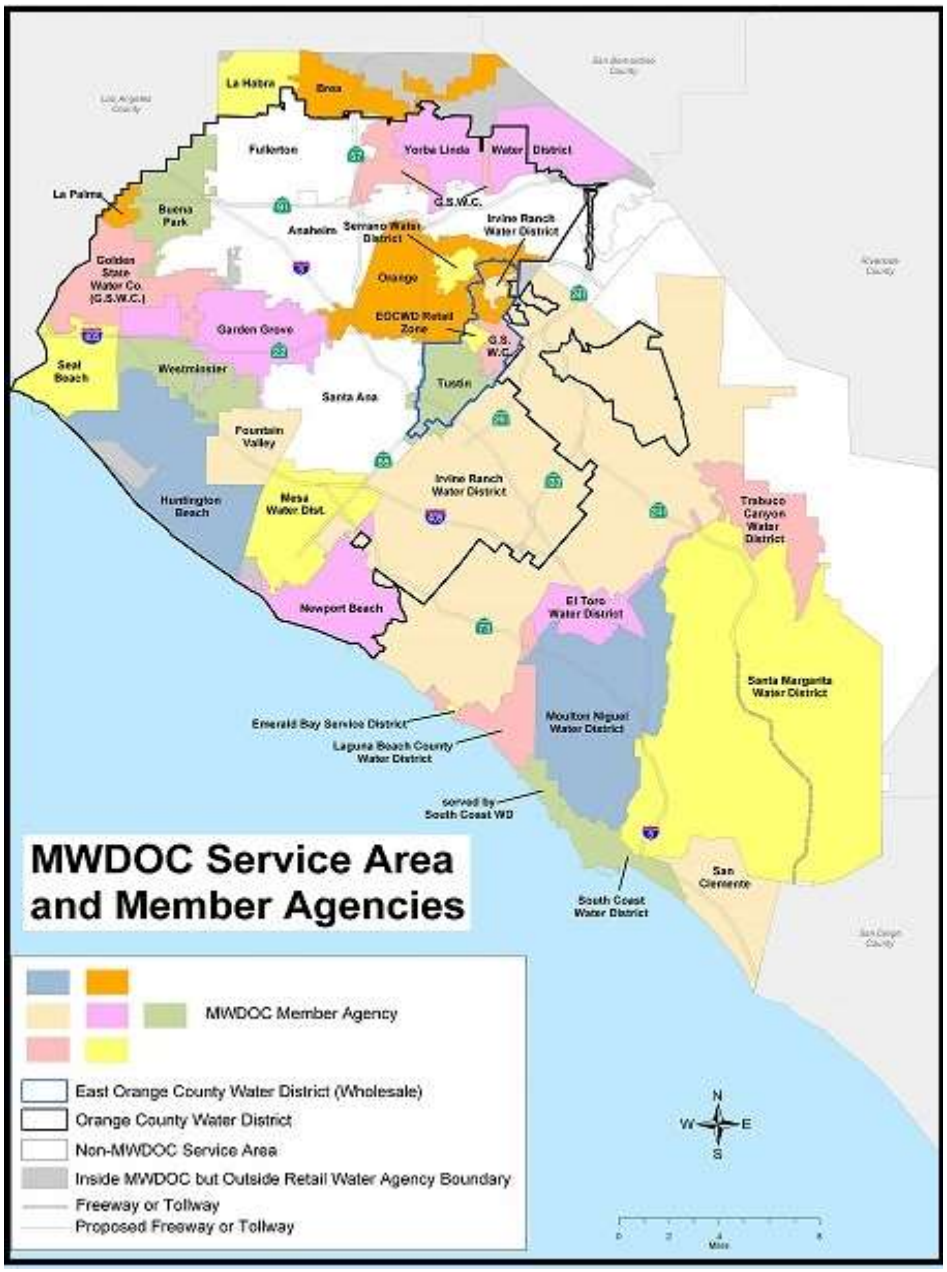
Metropolitan Water District of Southern California

MET provides water from the Colorado River and the State Water Project from Northern California to Southern California. It wholesales this imported water to its Orange County member agencies, MWDOC and the independent cities of Anaheim, Fullerton, and Santa Ana.

MET provides most of the water imported into Orange County. MET currently delivers an average of 1.7 billion gallons of water per day to a 5,200 square mile service area. MET is a group of 26 cities and water districts providing drinking water to over 19 million people in Los Angeles, Orange, San Diego, Riverside, San Bernardino, and Ventura counties.

Municipal Water District of Orange County

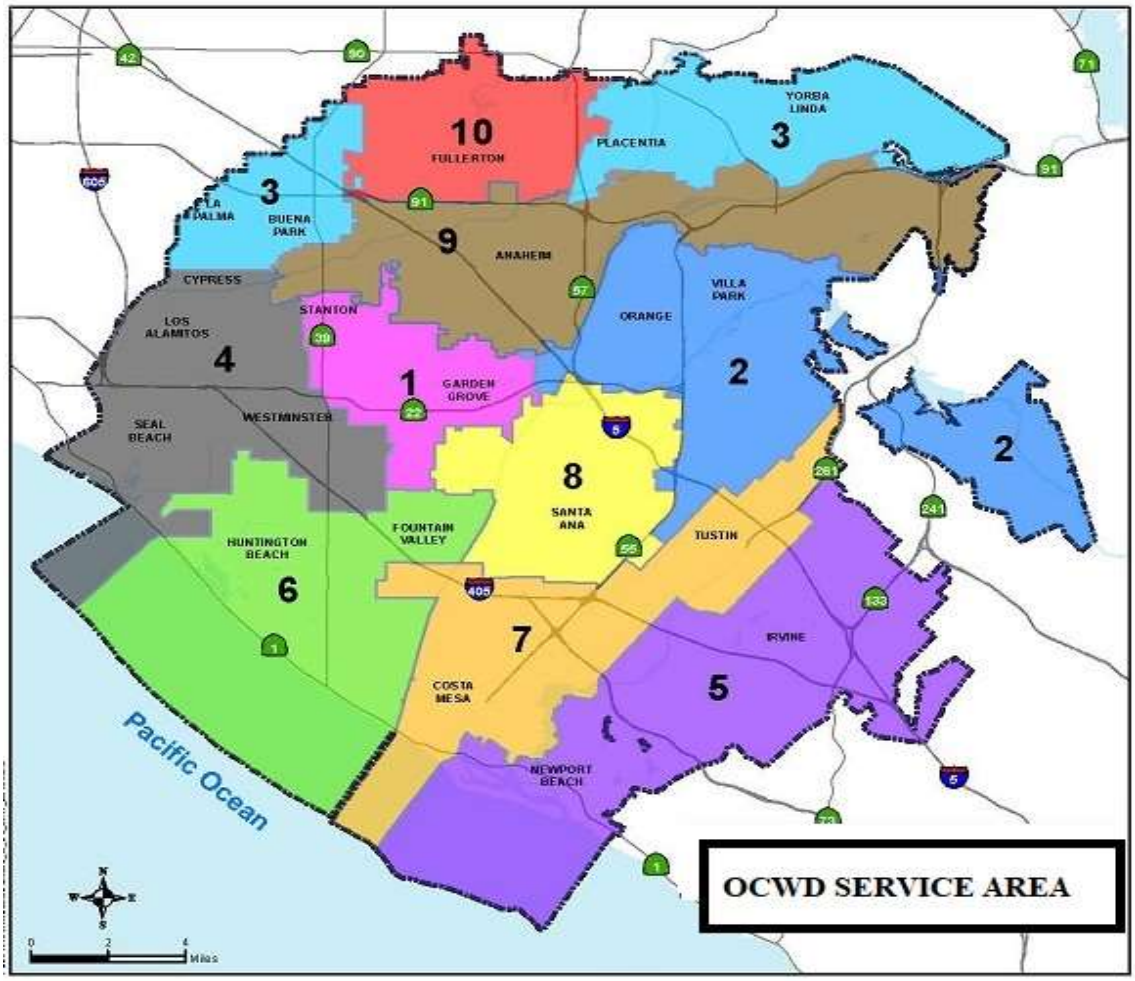
MWDOC acts as a pass-through agency for MET's imported water. This imported water is sold to MWDOC's 27 member agencies which, except for Fullerton, Anaheim and Santa Ana, covers the entire County. MWDOC also sell untreated water to OCWD for ground water discharge. MWDOC does not own or operate any water infrastructure.



Orange County Water District

OCWD manages the groundwater basin in the north and central part of the County. OCWD does not directly provide water to any residents or businesses, except treated wastewater for irrigation in the Green Acres Project. The Green Acres Project is a water reuse effort that provides recycled water for landscape irrigation at parks, schools and golf courses and some industrial

uses.[4] OCWD's primary role is to manage the basin and provide local water retailers with a reliable, adequate, and high-quality supply of water.[5] In addition, OCWD operates the Groundwater Replenishment System (GWRS) in partnership with the Orange County Sanitation District (OCSAN). This state-of-the-art water purification project can produce over 100 million gallons of high-quality potable water per day for aquifer recharge. OCWD provides groundwater to 19 municipal and special water districts and supplies approximately 77 percent of the water

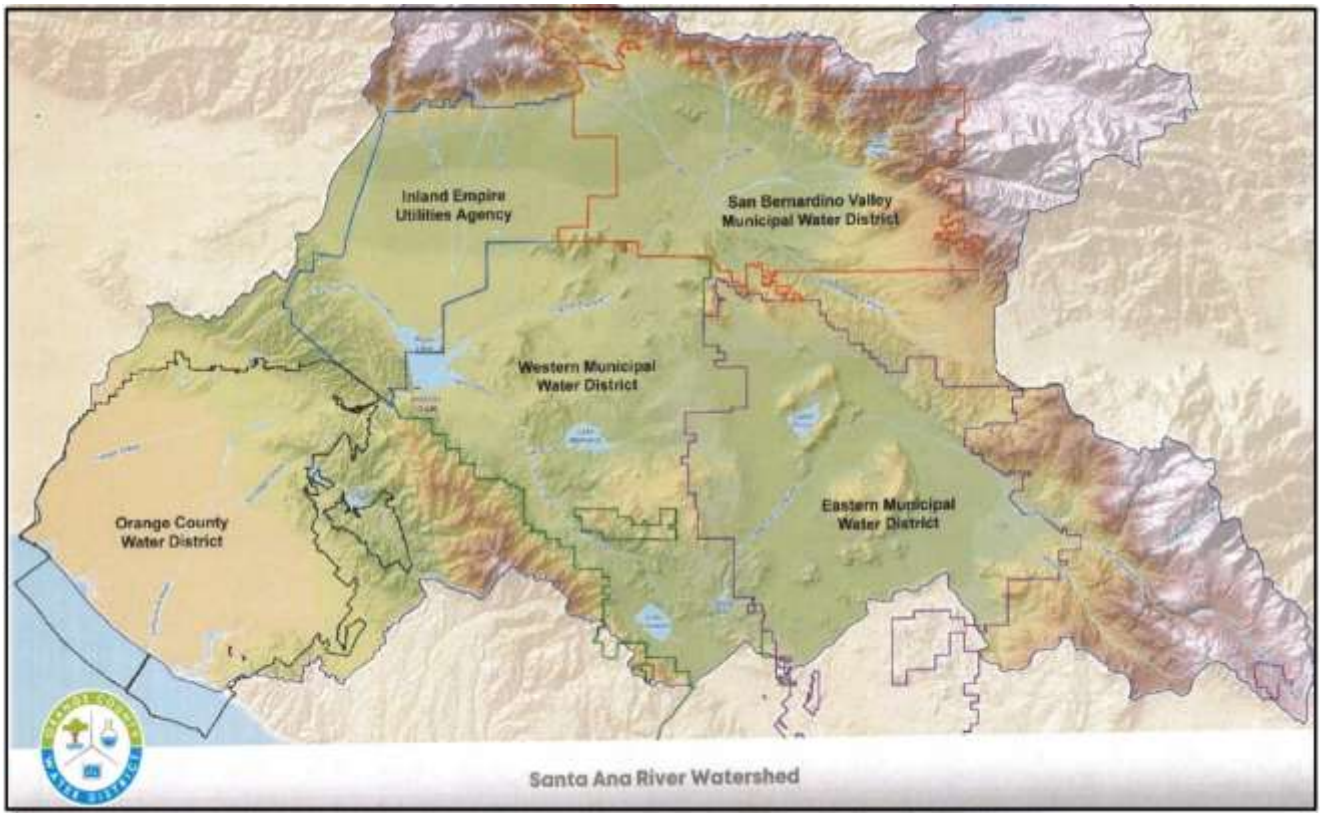


supply for North and Central Orange County. OCWD is the only wholesale groundwater agency for Orange County and is a customer of MWDOC for imported needs to supplement the aquifer recharge serving North/Central County. OCWD currently has $1.5 billion in capital infrastructure assets.

[4] www.ocwd.com/about/
[5] *Ibid*.

Additional Supply for OCWD

The Santa Ana River is the largest coastal stream in Southern California. Flowing west from the San Bernardino Mountains, the river winds through San Bernardino and Riverside Counties before reaching Orange County at Prado Dam, then traveling through the OCWD aquifer to supplement recharge, before terminating at the Pacific Ocean. The river is joined by Santiago Creek and flows to the ocean between Huntington Beach and Newport Beach.[6]



Retail Water Districts

Retail water organizations are the direct connection of supplying water to residential and commercial consumers. There are 29 retail water providers throughout Orange County. These water providers include cities, special water districts/agencies and one private water company.

[6] www.ocwd.com/what-we-do/

Differences in Supply Sources

South Orange County's approximate 600,000 residents rely primarily on imported water (70-100 percent of needed supply depending on location) from hundreds of miles away. The imported water is purchased through the Municipal Water District of Orange County (MWDOC).[7]

North and Central County's roughly 2.8 million residents rely primarily (19-99 percent depending on location) on groundwater supplied OCWD, which refills the Orange County Groundwater Basin with many different water supplies: water from the Santa Ana River; local rainfall; treated and purified wastewater through the Groundwater Replenishment System (GWRS); and imported water from the Colorado River and Northern California.[8]

[7] www.ocwd.com/about & www.mwdoc.com/wp-content/uploads/2017/05/Water-Supply.pdf
[8] www.mwdoc.com/wp-content/uploads/2017/05/Water-Supply.pdf

History, Governance and Authorizing Legislation

MET

In 1928, the Metropolitan Water District Act was established by the California Legislature. The original purpose was to construct and operate the 242-mile Colorado River Aqueduct, which runs from an intake at Lake Havasu on the California-Arizona border to an endpoint at Lake Mathews reservoir in Riverside County. MET has a 38-member board of directors representing the district's 26 agencies. Orange County is represented on the MET Board by seven Board members. MET has imported water from the Colorado River since 1941 and from Northern California since the early 1970s.[9]

MWDOC

MWDOC is a wholesale water supplier and resource planning agency that was established in 1951. Governed by a seven-member Board of Directors,[10] MWDOC is MET's third largest member agency and appoints four representatives to advocate the interests of Orange County on the Metropolitan Water District Board.[11]

OCWD

The Orange County Water District was formed in 1933 by a special act of the California Legislature to protect Orange County's rights to water in the Santa Ana River. OCWD is governed by a 10-member Board of Directors, seven of whom are elected, and three are appointed by the city councils of Anaheim, Fullerton, and Santa Ana.[12]

Retail Water Districts

Each retail water district was established throughout Orange County's history and provides water directly to consumers. They are each governed by an elected board of directors, respective city councils, or private investors.

Local Agency Formation Commission (LAFCO)

As part of California's water governance, LAFCO oversees geographic boundaries, evaluates cost-effective and efficient public service delivery, and explores potential alternatives to meet the service demands of the existing and future County population. Orange County LAFCO was founded in 1963 and strives to ensure the delivery of effective and efficient public services, including water, by local governments to the County's residents.[13] Orange County water

[9] www.mwdoc.com/about-mwdoc; www.mwdh2o.com/who-we-are/our-story/
[10] www.mwdoc/about-us/about-mwdoc
[11] www.mwdoc.com com/wp-content/uploads/2017/06/So-Cal-Water-Wholesale-Retailers.pdf
[12] www.ocwd.com/about/
[13] www.oclafco.org/about-us/agency/

professionals believe the process of creating one wholesale water agency would first go through LAFCO formation before moving on to State legislation and approval.

Services Provided by Wholesalers & Retailers

The following water services are currently in operation for Orange County.

MET

- Delivering wholesale water supplies from the Colorado River and State Water Project.
- Managing water resources including water storage programs (groundwater banking and reservoir), transfers and exchanges, groundwater recovery, recycling, stormwater capture, and potential seawater desalination.
- Operating water system including treatment, quality monitoring, conveyance, distribution, and support.
- Engineering, safety, and regulatory services such as infrastructure protection, maintenance, and improvement programs.
- Managing energy operations.
- Planning for emergency water supply interruption due to earthquake, fire, power failure, public health, and other unexpected crises.
- Planning for capital investment.

MWDOC

- Purchases wholesale water from MET, approximately 70.2 billion gallons of water annually, and delivers to its 27 member agencies.
- Provides studies, analysis and programs related to water supply development, including desalination, and system reliability and use efficiency.
- Offers planning assistance and local resource development in areas of water recycling, groundwater recharge, and conservation.
- Offers residential and commercial rebate programs.
- Offers leak detection services to its members.
- Develops and administrates disaster preparedness, response, and recovery strategies through the Water Emergency Response Organization of Orange County (WEROC). This organization involves both water and wastewater agencies.
- Provides public education and community outreach.

OCWD

- Manages Orange County's wholesale groundwater supplies: the basin consisting of a large underground aquifer to ensure a reliable supply, the Santa Ana River watershed, and the Groundwater Replenishment System (GWRS).

- Replaces groundwater that is pumped out of the basin every year with Santa Ana River watershed, recycled, imported, storm and natural incidental water recharge.
- Ensures groundwater supply safety and quality through monitoring and testing.
- Recycles water primarily through the GWRS which takes treated wastewater that otherwise would be sent to the Pacific Ocean and purifies it for aquifer recharge.
- Participates in legislative and community engagement and education.
- Develops additional innovative programs such as Forecast Informed Reservoir Operations (FIRO) at Prado Dam, capturing and recharging stormwater in the Santa Ana River, and anticipating and optimizing stormwater runoff.
- Coordinates contaminant treatment, financial resource needs, and policy such as for Per- and polyfluoroalkyl substances (PFAS) which enter the aquifer and wells primarily through the Santa Ana River flows. Additionally, organizes litigation and accountability for the contaminant sources.

Retail Water Districts

In addition to being the direct link to consumers, retail agencies provide several additional services beyond those provided by wholesalers. Those services include maintaining water quality and testing throughout their distribution systems, repair and replacement of critical infrastructure, regulatory compliance, customer service, water use conservation, recycled water for irrigation or other non-potable uses, and public outreach and health-related services.

Where Do We Go from Here?

Assessment of Current State

Reliable sources shared opinions with the OCGJ that the current OC wholesale structure is "dysfunctional", "prevents speaking with one voice for all of Orange County water interests" involving the aquifer and imported water sources, and "currently provides redundant services with redundant costs." Also, multiple member agencies of MWDOC have expressed dissatisfaction with MWDOC's operating effectiveness related to MET board and legislative representation, member charges for provided services, and the scope of emergency preparedness.[14]

In addition, this dual structure of MWDOC and OCWD has resulted in missed opportunities for the County in the form of more extensive multiple agency collaboration, increased operating efficiency, decreased reliance on imported water, and the creation of a more reliable water

[14] Information based on multiple interviews, past agreements between MWDOC and MWDOC member agencies, and LAFCO Municipal Service Reviews.

supply.[15] Currently, many projects are undertaken by individual or small groups of retail agencies that could be more expansive if guided by a single wholesale water supplier providing diverse water sources.

Another missed opportunity is a lack of coordinated County analysis about the benefits and drawbacks related to potential desalination projects. Even though desalination projects potentially impact the water supply for all of Orange County, OCWD and MWDOC independently consider these desalination projects and their impact.

Furthermore, many water experts believe that this fragmentation results in less than optimum legislative lobbying effectiveness. This affects programs such as water conservation, related water consumption standards such as State storage projects to capture more water supply during wet years, contamination treatment standards, and the Delta Conveyance System, which is a proposed more efficient and effective system to move water from Northern California to the central and southern part of the State.

Benefits of a Single County Agency - "One Voice"

The Orange County Grand Jury found that creation of a single County wholesale water agency to serve as a conduit for both imported and groundwater would be most effective in coordinating water supply diversification, major infrastructure investments, and developing forward-thinking policies and practices. This single agency would also help facilitate fiscal and environmental responsibility.

Orange County water agencies have earned a tremendous reputation for innovative projects and strategies related to increasing a reliable water supply, even in drought conditions. How do we leverage what already is exemplary and collaborative in Orange Counter water operations?

- Groundwater Replenishment System (GWRS)
- Santa Ana River Conservation and Conjunctive Use program (SARCCUP)[16]
- Inter-county perspective with neighboring jurisdictions of the Inland Empire, San Diego, and Los Angeles Counties.
- Purple water recycling for irrigation coming from treated waste and stormwater capture.
- Burris Basin conversion to Anaheim Coves Trail (OCWD / City partnership).[17]

Water experts believe "One Voice" would result in increased influence on the MET Board. The OCJG concluded that having all types (groundwater and imported water) of wholesale water

[15] Information based on multiple water professional interviews.
[16] www.ieua.org/read-our-reports/santa-ana-river-conservation-and-conjunctive-use-program/
[17] http://www.santa-ana-river-trail.com/trail/burris_basin.asp

providers occupy "seats at the table" would be beneficial to Orange County as a whole and for MET. Additional benefits of a one wholesale water entity include:

- Increased coordination of financial support and capital resources from local, State, and federal sources. An example is in the funding for well contamination remediation utilizing an ionization process.
- More influence at the local, State, and federal levels. Examples include the Delta Conveyance[18] system, additional storage capacity, and preservation of imported supplies from the State Water Project.
- Increased collaboration leading to additional infrastructure shared by wholesale and retail, both for emergency and longer-term everyday use, to move water around as needed.
- Centralized planning for emergency water supply interruptions rather than independent efforts of wholesale and retail water organizations.
- Increased coordination between North and South County for matters such as water banking in Central County for use in South County.
- Cost savings by eliminating duplication of administrative, professional, consultant, lobbying and other expenses currently existing at OCWD and MWDOC.
- Singular County leadership in forming conservation strategies, public outreach, and education.

Concerns related to creating "One Voice"

The Orange County Grand Jury recognizes that with any governance or business model change obstacles will exist to forming a consolidated or new wholesale water agency. Overall, proponents of this change are concerned that there is a lack of political will and that "protecting my own turf" philosophies will get in the way of doing the right thing for reliable water supply in the future. Some additional hesitation exists from some Orange County water board and management professionals that believe:

- Imported versus groundwater requires specialized knowledge and a unique operational approach and should not be combined.
- Staff reductions will occur.
- Merging of retirement pension and benefit liabilities will be complicated and expensive.
- Development of a new Board of Directors structure may cause a loss of representation of the unique water needs of different parts of the County.

[18] www.mwdoc.com/wp-content/uploads/2020/06/Delta-Conveyance-Project-and-EcoRestore.pdf

- Consolidation of the existing two wholesale water districts, OCWD and MWDOC, or the forming of a new agency would be complicated. The process would likely begin through Orange County LAFCO before moving to State legislative level, both of which would be divisive and risk political influence and interference when revising local and State water acts.

Despite these complications and challenges, the OCGJ concluded that the County will be better served by creating a "one voice" agency to lead and represent all aspects of wholesale water operations in Orange County.

FINDINGS

F1 A singular water authority for Orange County's wholesale water supply likely would result in further opportunities at the local, State, and federal levels in legislation, policy making and receiving subsidies and grants.

F2 The current fragmented water system structure and operations provides challenges as it relates to development of new interconnected infrastructure as well as maintenance of existing systems.

F3 There is a great disparity between the North/Central and South Orange County water sources, management, and operations carried out by OCWD and MWDOC.

F4 South Orange County has many smaller retail water districts that lack a formal centralized leadership. Notwithstanding this lack of structure, South Orange County retail water districts have displayed effective collaboration when dealing with one another.

F5 Orange County Water District is a recognized worldwide leader in groundwater resource management and reclamation. Its leadership, innovation, and expertise can be further utilized to serve all of Orange County in developing additional innovative and beneficial programs.

F6 Orange County currently does not have a countywide coordinated policy regarding water conservation, which results in difficulty when complying with any new State-mandated conservation regulations.

RECOMMENDATIONS

R1 By January 2023, Orange County wholesale water agencies should formally begin analysis and collaboration towards forming a single wholesale water authority or comparable agency to operate and represent wholesale water operations and interests of all imported and ground water supplies. (F1, F2, F3, F4, F6)

R2 Any future "One Voice" consolidated Orange County wholesale water authority should have Directors that examine and vote on issues considering the unique needs of all water districts. (F1, F2, F3, F4, F6)

COMMENDATIONS

- Orange County Water District (OCWD) commitment to sound planning and state-of-the-art technology to provide water to the people of Orange County. Highly recognized, OCWD, along with Orange County Sanitation District, has the world's largest Groundwater Replenishment System (GWRS).
- Municipal Water District of Orange County (MWDOC) for many provided services related to emergency planning, public education, water reliability and delivery reports, leak detection service, rebate and conservation programs and many other "choice" services.
- All the current wholesale and retail water districts in Orange County for their efforts to collaborate and strategize to better serve Orange County Citizens despite the lack of a centralized administration.

RESPONSES

The following excerpts from the California Penal Code provide the requirements for public agencies to respond to the Findings and Recommendations of this Grand Jury report:

California Penal Code Section 933 requires the governing body of any public agency which the Grand Jury has reviewed, and about which it has issued a final report, to comment to the Presiding Judge of the Superior Court on the findings and recommendations pertaining to matters under the control of the governing body. Such comment shall be made *no later than 90 days* after the Grand Jury publishes its report (filed with the Clerk of the Court). Additionally, in the case of a report containing findings and recommendations pertaining to a department or agency headed by an elected County official (e.g. District Attorney, Sheriff, etc.), such elected County official shall comment on the findings and recommendations pertaining to the matters under that elected official's control *within 60 days* to the Presiding Judge with an information copy sent to the Board of Supervisors.

Furthermore, California Penal Code Section 933.05 specifies the manner in which such comment(s) are to be made as follows:

(a) As to each Grand Jury finding, the responding person or entity shall indicate one of the following:

(1) The respondent agrees with the finding.

(2) The respondent disagrees wholly or partially with the finding, in which case the response shall specify the portion of the finding that is disputed and shall include an explanation of the reasons therefor.

(b) As to each Grand Jury recommendation, the responding person or entity shall report one of the following actions:

(1) The recommendation has been implemented, with a summary regarding the implemented action.

(2) The recommendation has not yet been implemented, but will be implemented in the future, with a time frame for implementation.

(3) The recommendation requires further analysis, with an explanation and the scope and parameters of an analysis or study, and a time frame for the matter to be prepared for discussion by the officer or head of the agency or department being investigated or reviewed, including the governing body of the public agency when applicable. This time frame shall not exceed six months from the date of publication of the Grand Jury report.

(4) The recommendation will not be implemented because it is not warranted or is not reasonable, with an explanation therefor.

(c) If a finding or recommendation of the Grand Jury addresses budgetary or personnel matters of a county agency or department headed by an elected officer, both the agency or department head and the Board of Supervisors shall respond if requested by the Grand Jury, but the response of the Board of Supervisors shall address only those budgetary /or personnel matters over which it has some decision making authority. The response of the elected agency or department head shall address all aspects of the findings or recommendations affecting his or her agency or department.

Responses Required

Comments to the Presiding Judge of the Superior Court in compliance with Penal Code §933.05 are required from:

90 Day Response Required	F1	F2	F3	F4	F5	F6
OCWD Board of Directors	X	X	X		X	X

90 Day Response Required	R1	R2
OCWD Board of Directors	X	X

90 Day Response Required	F1	F2	F3	F4	F5	F6
MWDOC Board of Directors	X	X	X	X	X	X

90 Day Response Required	R1	R2
MWDOC Board of Directors	X	X

Responses Requested

90 Day Response Requested	F1	F2	F3	F4	F5	F6
East Orange County Water District	X	X	X		X	X

90 Day Response Requested	R1	R2
East Orange County Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
El Toro Water District	X	X	X		X	X

90 Day Response Requested	R1	R2
El Toro Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Emerald Bay Service District	X	X	X		X	X

90 Day Response Requested	R1	R2
Emerald Bay Service District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Golden State Water Co	X	X	X		X	X

90 Day Response Requested	R1	R2
Golden State Water Co	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Irvine Ranch Water District	X	X	X	X	X	X

90 Day Response Requested	R1	R2
Irvine Ranch Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Laguna Beach County Water District	X	X	X	X	X	X

90 Day Response Requested	R1	R2
Laguna Beach County Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Mesa Water District	X	X	X		X	X

90 Day Response Requested	R1	R2
Mesa Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Moulton Niguel Water District	X	X	X	X	X	X

90 Day Response Requested	R1	R2
Moulton Niguel Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Santa Margarita Water District	X	X	X	X	X	X

90 Day Response Requested	R1	R2
Santa Margarita Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Serrano Water District	X	X	X	X	X	X

90 Day Response Requested	R1	R2
Serrano Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
South Coast Water District	X	X	X		X	X

90 Day Response Requested	R1	R2
South Coast Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Trabuco Canyon Water District	X	X	X	X	X	X

90 Day Response Requested	R1	R2
Trabuco Canyon Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Yorba Linda Water District	X	X	X		X	X

90 Day Response Requested	R1	R2
Yorba Linda Water District	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
City of Anaheim	X	X	X		X	X

90 Day Response Requested	R1	R2
City of Anaheim	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
City of Fullerton	X	X	X		X	X

90 Day Response Requested	R1	R2
City of Fullerton	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
City of Santa Ana	X	X	X		X	X

90 Day Response Requested	R1	R2
City of Santa Ana	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
City of Brea	X	X	X		X	X

90 Day Response Requested	R1	R2
City of Brea	X	X

90 Day Response Requested	F1	F2	F3	F4	F5	F6
Metropolitan Water District	X	X				X

90 Day Response Requested	R1	R2
Metropolitan Water District	X	X

GLOSSARY

AQUEDUCT	A structure for transporting water from one place to another by means of a pipeline, canal, conduit, tunnel, or a combination of these things.
AQUIFER	A geologic formation of sand, rock and gravel through which water can pass and which can store, transmit and yield significant quantities of water to wells and springs.
DELTA CONVEYANCE SYSTEM	Refers to State Water Project (SWP) infrastructure in the vast network of waterways comprising the Sacramento-San Joaquin Delta (Delta) that collects and moves fresh, clean, and affordable water to homes, farms, and businesses throughout major regions of the State from the Bay Area to Southern California.
FIRO	Forecast Informed Reservoir Operations is a flexible water management approach that uses data from watershed monitoring and improved weather forecasting to help water managers selectively retain or release water from reservoirs for increased resilience to droughts and floods.
GWRS	Groundwater Replenishment System. A process where water is replaced in the aquifer.
GREEN ACRES PROJECT	OCWD's Green Acres Project (GAP) is a water reuse effort that provides recycled water for landscape irrigation at parks, schools, and golf courses; industrial uses, such as carpet dying; toilet flushing; and power generation cooling.
GROUNDWATER BANKING	A process of diverting surface water into an aquifer where it can be stored until needed
JPA	Joint Power Authority. two or more public agencies to join together, under a joint powers authority (JPA), to provide more effective or efficient government services or to solve a service delivery problem.

LAFCO	Local Agency Formation Commission. Governed by State law, the Commission oversees proposed changes to local agency and county unincorporated boundaries and prepares special studies to encourage the orderly and efficient delivery of public services to Orange County residential and business communities.
MET	Metropolitan Water District, provides water from the Colorado River and the State Water Project from northern California to Southern California.
MWDOC	Municipal Water District of Orange County represents all of Orange County, excluding the three independent city members of MET, and acts as a pass-through agency for MET water sold to its constituent members and sells additional untreated water to OCWD for groundwater recharge.
OCSAN	Orange County Sanitation District treats and recycles sewer and grey water.
OCWD	Orange County Water District manages the groundwater basin of the north and central part of the County.
ONE VOICE	Orange County needs to have a central entity to speak for water and legislative matters.
PAPER WATER	Transfer water via paper, not physically.
PFAS	Per and polyfluoroalkyl substances chemical by product of past aerospace manufacturing in Orange County.
PURPLE WATER	Recycled water that has been treated for reuse in landscaping, agriculture, and commerce.
SAR	Santa Ana River.
SARCCUP	Santa Ana River Conservation and Conjunctive Use program. Guides the use and conservation of the Santa Ana River basin.
SPECIAL DISTRICTS	Special districts are public agencies created to provide one or more specific services to a community, such as water service, sewer service, and parks.

WATER TRANSFERS	A water transfer is a voluntary sale of water proposed and initiated by willing sellers who have legal rights to a supply of water to an interested buyer.
WEROC	Water Emergency Response Organization of Orange County, administered through MWDOC, develops disaster preparedness, response, and recovery strategies.

MEMORANDUM

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors

FROM: Tracy E. Manning, Water Operations Manager

DATE: June 28, 2022

SUBJECT: 2022 Public Health Goals Report

RECOMMENDATION

Recommend that the Board of Directors accepts the Report on Mesa Water District's Water Quality relative to the 2022 Public Health Goals and receives comments at the Public Hearing scheduled for the July 13, 2022 Board meeting.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.

PRIOR BOARD ACTION/DISCUSSION

None.

DISCUSSION

Mesa Water's 2022 Public Health Goals Report shows that our system complies with all health-based drinking water standards and maximum contaminant levels. No additional measures are recommended to achieve compliance.

Drinking water compliance is based upon state and federal Maximum Contaminant Levels (MCLs) developed and adopted by the United States Environmental Protection Agency (USEPA) or California State Water Resources Control Board Division of Drinking Water (DDW). Mesa Water District (Mesa Water®) is in full compliance with all drinking water regulations.

Senate Bill (SB) 1307 (Calderon-Sher; effective 01/01/97) added new provisions to the California Health and Safety Code which mandate that a Public Health Goals (PHG) report be prepared by July 1, 1998, and every three years thereafter. The attached 2022 PHG Report is intended to provide information to the public in addition to the annual Consumer Confidence Report that is made available online to customers each year.

California Health and Safety Code Section 116365 requires the State to develop a PHG for every contaminant with a primary drinking water standard or for any contaminant California is proposing to regulate with a primary drinking water standard. A PHG is the level which poses no significant health risk if consumed for a lifetime. A PHG is developed using a risk assessment based strictly on human health considerations.

The 2022 PHG Report compares Mesa Water's drinking water quality with PHGs adopted by California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) and with the maximum contaminant level goals (MCLGs) adopted by the USEPA. The report also provides a cost estimate to treat each constituent to below the PHG. PHGs and MCLGs are not enforceable standards and no action to meet them is mandated.

The law requires that a public hearing be held for the purpose of accepting and responding to public comment on the report. The Public Hearing is scheduled for the July 13, 2022 Board meeting.

FINANCIAL IMPACT

In Fiscal Year 2022, $30,000 is budgeted for Water Quality Support Services; $9,850 has been spent to date.

ATTACHMENTS

Attachment A: Mesa Water District 2022 Public Health Goals Report

MesaWater DISTRICT©

2022 Public Health Goals Report

June 2022

Prepared by: Trussell
CREATING THE FUTURE OF WATER

2022 Public Health Goals Report

Mesa Water District

About Mesa Water District

Mesa Water District (Mesa Water®) is an independent special district governed by a publicly elected five-member Board of Directors, that provides water service to 110,000 residents in an 18-square-mile service area that includes most of Costa Mesa, a portion of Newport Beach and John Wayne Airport.

This year, Mesa Water is celebrating its 10th anniversary of providing 100% local, reliable, clean, safe water – the only water district in Orange County to fulfill water demand entirely from local groundwater supplies.

Mesa Water is committed to efficiency, transparency and fiscal responsibility. It is one of Orange County's most efficient water agencies, based on expenditures per capita according to an annual study by Raftelis Financial Consultants. An award-winning agency, Mesa Water holds AAA credit ratings from both Fitch and S&P Global Ratings – the highest achievable by an organization.

1 Introduction

California Health and Safety Code §116470(b) requires California public water systems with more than 10,000 service connections to prepare a publicly available report every three years addressing the following:

(a) detection of any contaminant in drinking water at a level exceeding its respective public heath goal (PHG),
(b) discussion of public health risks associated with the detected PHG contaminants,
(c) description of best available technology for reducing the concentration of the detected contaminants, and
(d) aggregate cost estimates for using the technologies identified in part (c) to bring drinking water levels below the PHG.

Mesa Water has approximately 24,406 service connections serving 110,000 people. This document serves as the 2022 PHG Report for Mesa Water and has been prepared to address the requirements from the California Health and Safety Code (§116470), based on water quality analyses for samples collected during calendar years 2019 through 2021.

2 Background Information

2.1 Public Health Goals, Maximum Contaminant Levels, and Maximum Contaminant Level Goals

Public Health Goals (PHGs) are developed by the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) for every contaminant with a primary drinking water standard or any contaminant the State is proposing to regulate with a primary drinking water standard, as required under California Health and Safety Code §116365. Each PHG is defined as the level where the drinking water contaminant does not pose any significant risk to human health. This level is based on risk assessments prepared by OEHHA that consider the most current principles, practices, and methods used by experienced public health professionals. PHGs are recommended, non-enforceable targets and public water systems are not required to achieve these levels in the drinking water supplied to customers. Where OEHHA has not adopted a PHG for a constituent, the established maximum contaminant level goal (MCLG) adopted by the United States Environmental Protection Agency (USEPA) is reported instead.

The State Water Resources Control Board Division of Drinking Water (DDW) considers PHGs when revising or developing a maximum contaminant level (MCL) for drinking water contaminants. The MCL is an enforceable regulatory limit defined as the highest level of a contaminant that is allowed in drinking water. MCLs are set as closely as is technically and economically feasible to the PHGs. DDW is required to take treatment technologies and the cost of compliance into account when establishing an MCL. Each MCL is reviewed at least once every five years.

2.2 Water Quality Data

Mesa Water uses local groundwater as the primary source of drinking water, which is pumped from the Orange County groundwater basin via Mesa Water's seven wells. Five wells pump water from the local clear-water basin. An additional two wells, that are part of the Mesa Water Reliability Facility (MWRF), pull from a deeper, amber-colored water basin. The water has an amber tint which comes from ancient redwood trees that grew along the Orange County coast more than 100,000 years ago. The trees decayed under the surface of the earth and colored the water in the deep aquifer. Using state-of-the-art nanofiltration technology at the MWRF, the amber organic color is removed and the clear water is added to our water supply. This water meets all water quality standards. If needed, imported water from the Metropolitan Water District of Southern California (Metropolitan) is used as an emergency backup water supply for Mesa Water.

This report is based on water quality analyses performed during calendar years 2019, 2020, and 2021 for Mesa Water's source waters and drinking water system. The water quality data is also summarized in Mesa Water's Water Quality Reports (also known as Consumer Confidence Reports) for 2020 through 2022, which are made available to customers by July 1 of each year.

2.3 Best Available Technologies (BATs) and Cost Estimates

USEPA and DDW adopt what are known as best available technologies, or BATs, which are the best-known methods of reducing contaminant levels to the MCL. Since PHGs and MCLGs are typically set much lower than the MCL, determining the type of treatment that is needed to further reduce a contaminant to the PHG or MCLG is not always possible or feasible. For example, if the PHG or MCLG are below the existing detection limit for the purpose of reporting (DLR), which is the statutory level at which a constituent can be measured for a drinking water. Estimating costs to further reduce a constituent below an unknown level is difficult, if not impossible, because it is not possible to verify this reduction by analytical means. Installing treatment technologies to further reduce low levels of one constituent may in some cases have adverse effects on other aspects of water quality. As such, the cost estimates used in this report do not account for these unintended consequence and are highly speculative and theoretical.

2.4 Reporting Guidelines

The Association of California Water Agencies (ACWA) formed a workgroup to prepare suggested guidelines for water utilities to use in preparing PHG reports. The 2022 ACWA guidelines, which include annualized capital and operational and maintenance (O&M) treatment cost estimates for BATs indexed to 2021 costs, were used in preparation of this report. OEHHA has provided health risk information for PHG reports, which includes health risk categories and numerical health risks based on lifetime exposure for each contaminant with a PHG.

3 Contaminants Exceeding PHGs or MCLGs

This section covers the requirements set forth by Sections 116470(b)(1) through 116470(b)(5) of the California Health and Safety Code. This includes a discussion of the following:

(1) Identification of each contaminant detected in drinking water that exceeds the PHG,
(2) Disclosure of the numerical public health risks determined by OEHHA associated with the MCL and PHG of each detected contaminant,
(3) Identification of the category of risk to public health for each detected contaminant,
(4) Description of any commercially available BATs to remove or reduce the concentration of the contaminants to a level at or below the PHG or MCLG,
(5) Estimate of the aggregate cost and cost per customer of utilizing the BATs.

The following subsections discuss contaminants that were detected at one or more locations within the Mesa Water drinking water system at levels that exceeded the applicable PHGs or MCLGs. This information is summarized in Table A at the end of this report.

3.1 Arsenic

Arsenic is a naturally occurring element present in rocks and sediments. It can enter drinking water through natural deposits or as a result of industrial activities. The PHG for arsenic is 0.004 µg/L (micrograms per liter), which is significantly below the current DLR defined by DDW for arsenic at 2 µg/L. Arsenic was measured above the PHG at two of Mesa Water's groundwater wells. The concentration of arsenic from all wells ranged from non-detect (ND) to 2.3 µg/L. These values are well below the MCL of 10 µg/L.

The health risk category for arsenic is carcinogenicity, meaning it is a substance capable of causing cancer. The numerical health risk associated with the PHG is 1 excess case of cancer in 1,000,000 people (1×10^{-6}). The risk associated with the MCL is 2.5 excess cases of cancer in 1,000 people (2.5×10^{-3}).

The BATs for removal of arsenic in water for large water systems include activated alumina, coagulation/filtration, ion exchange, lime softening, oxidation/filtration, and reverse osmosis. Ion exchange was used to estimate the cost to reduce arsenic concentrations to below the PHG (effectively, below the DLR of 2 µg/L based on DDW-approved methods) in the two local groundwater wells with detections above the PHG, however there is no information available to indicate that any of the BAT methods can reduce arsenic concentrations to this level. Numerous factors may influence the actual cost of reducing arsenic to the PHG. The total estimated cost to reduce arsenic levels, based on the average well water production during 2019 through 2021, is $3,940,000 per year, or $162 per service connection per year.

3.2 Bromate

Bromate is a byproduct of drinking water disinfection processes, formed when water containing naturally occurring bromide ions react with ozone. The PHG for bromate is 0.1 µg/L, and the DLR is 1 µg/L. Bromate was measured above the PHG in treated surface water purchased from Metropolitan. The bromate concentration in the purchased water ranged from below the DLR (ND) to 8.1 µg/L, with a highest running annual average of 2 µg/L. This is well below the 10 µg/L MCL for bromate.

The health risk category for bromate is carcinogenicity. The numerical health risk associated with the PHG is 1 excess case of cancer in 1,000,000 people (1×10^{-6}). The risk associated with the MCL is 1 excess case of cancer in 10,000 people (1×10^{-4}).

Bromate is a disinfection byproduct that can be formed with ozonation of water containing bromide. The imported water supplied from Metropolitan is treated with ozonation, and the most cost-effective means of reducing the bromate levels below the PHG (effectively, below the DLR of 1 µg/L based on DDW-approved methods) is likely through improved control of the ozone treatment process to further limit bromate formation. Once formed, the BAT for removal of bromate in water is reverse osmosis. Although Mesa Water maintains several emergency connections for accessing imported

water, the high costs of reverse osmosis treatment make it more effective to limit this treatment option to a single imported water location. The total estimated cost to reduce bromate levels in purchased Metropolitan water, based on the maximum annual imported volume for the 2019-2021 period, ranges from $2,370,000 to $3,840,000 per year, or $97 to $157 per service connection per year. Numerous factors may influence the actual cost of reducing bromate levels to the PHG, particularly the need to provide on-demand treatment for multiple emergency imported water connections.

3.3 Gross Alpha Particle Activity (Gross Alpha)

Radionuclides are naturally occurring elements that can be found in natural deposits and have unstable nuclei that spontaneously decay, releasing radiation. Gross alpha is a measure of the overall radioactivity in water attributed to alpha particles. OEHHA has not established a PHG for gross alpha, concluding in its 2003 review that a PHG was not practical. The MCLG is zero, the DLR is 3, and the MCL is 15 pCi/L (picocuries per liter). Of eight measurements analyzed from 2019 through 2021 and representing six Mesa Water groundwater wells, seven were below the DLR (ND) for gross alpha, and there was only one detection at a concentration of 3.8 pCi/L, which is well below the MCL.

The health risk category for gross alpha is carcinogenicity. The numerical health risk associated with an MCLG of zero is zero. The health risk associated with the MCL is 1 excess case of cancer in 1,000 people (1×10^{-3}).

The BAT to treat gross alpha is reverse osmosis, but this will be expensive to implement at a single groundwater well location. Since reverse osmosis will also remove other radionuclides and contaminants, the cost of implementing this treatment in a centralized facility is discussed in Section 3.6.

3.4 Gross Beta Particle Activity (Gross Beta)

Gross beta is a measure of the overall radioactivity in water attributed to a total 168 individual beta particles and photon emitters. OEHHA has not established a PHG for gross beta, concluding in its 2003 review that a PHG was not practical. The MCLG is zero, the DLR is 4 pCi/L, and the MCL is 4 mrem/year (millirem per year). OEHHA has judged a level of 50 pCi/L to be equivalent to the MCL. Gross beta was measured above the PHG in treated surface water purchased from Metropolitan. The gross beta concentration in the purchased water ranged from below the DLR (ND) to 7 pCi/L, with all values well below the MCL.

The health risk category for gross beta is carcinogenicity. The numerical health risk associated with an MCLG of zero is zero. The health risk associated with the MCL is 2 excess cases of cancer in 1,000 people (2×10^{-3}).

The BATs for removal of gross beta in water are ion exchange and reverse osmosis. Numerous factors may influence the actual costs of reducing gross beta levels to the

MCLG of zero (effectively, below the DLR of 4 pCi/L based on DDW-approved methods). The total estimated cost of reducing gross beta levels using ion exchange is $1,920,000 per year or $79 per service connection per year. As discussed in Section 3.2, this treatment is assumed to be limited to a single location and would thus require limiting the use of emergency imported water supplies to a single turnout. The costs to reduce gross beta using reverse osmosis in a centralized facility, which will also reduce other contaminant concentrations, is discussed in Section 3.6.

3.5 Combined Radium

Radium is a naturally occurring radionuclide that enters drinking water through runoff and leaching of natural deposits. The most common isotopes of radium are radium-226 and radium-228. Although radium-226 and radium-228 have individual PHGs, they do not have individual MCLs, instead having a combined radium-226/228 MCL of 5 pCi/L. Radium-228, which has a PHG of 0.019 pCi/L, was detected in treated surface water purchased from Metropolitan. Radium-226 was not detected. The combined radium concentration in the purchased water ranged from below the DLR (ND) to 2 pCi/L.

The health risk category for radium-228 is carcinogenicity. The numerical health risk associated with the PHG is 1 excess case of cancer in 1,000,000 people (1×10^{-6}). The health risk associated with the MCL is 3 excess cases of cancer in 10,000 people (3×10^{-4}).

The BATs for removal of radium in water are ion exchange, reverse osmosis, and lime softening. The total estimated cost of reducing radium levels using ion exchange is $1,920,000 per year or $79 per service connection per year. Numerous factors may influence the actual costs of reducing radium-228 levels to the PHG (effectively, below the DLR of 1 pCi/L based on DDW-approved methods), including the type of ion exchange resin required. As discussed in Sections 3.2 and 3.4, this treatment is assumed to be limited to a single location and would thus require limiting the use of emergency imported water supplies to a single turnout. The costs to reduce combined radium using reverse osmosis in a centralized facility is discussed in Section 3.6.

3.6 Uranium

Uranium is a naturally occurring radionuclide in natural deposits that is introduced into drinking water through erosion. The PHG for uranium is 0.43 pCi/L, and the DLR is 1 pCi/L. Uranium was measured above the PHG at four of Mesa Water's groundwater wells, including one of the wells that supplies the MWRF. The concentration of uranium at these wells ranged from below the DLR (ND) to 2.8 pCi/L. Uranium was also detected in treated surface water purchased from Metropolitan at a range of ND to 3 pCi/L. These values are well below the MCL of 20 pCi/L.

The health risk category for uranium is carcinogenicity. The theoretical health risk associated with the PHG is 1 excess case of cancer in 1,000,000 (1×10^{-6}). The health risk associated with the MCL is 5 excess cases of cancer in 100,000 people (5×10^{-5}).

The BAT for removal of uranium in water is reverse osmosis. Since uranium is present in both local groundwater and purchased water, centralized treatment would likely be required. This form of treatment would also reduce the concentrations of contaminants identified in Sections 3.1 to 3.5. The estimated cost to reduce all identified contaminant levels using reverse osmosis, based on the average annual total water production, ranges from $13,000,000 to $20,400,000 per year, or $534 to $837 per service connection per year. This cost estimate does not include construction of pipelines that would be necessary to connect the impacted sources (wells and imported water connections) supplying a centralized facility.

4 Recommendations for Further Action

Drinking water delivered by Mesa Water is safe and meets or exceeds all state and federal drinking water standards set to protect public health. Mesa Water conducts over 30,000 water quality annually to ensure our water meets rigorous drinking water standards.

To further reduce the levels of the constituents identified in this report, all of which are well below the health-based MCL, additional costly treatment processes would be required. The effectiveness of the identified best-available treatment processes to provide any significant reductions in constituent levels at these already low values is uncertain and may not realistically be possible. The health protection benefits of these hypothetical reductions are unclear and may not be quantifiable. Therefore, no further action is proposed.

For additional information, please contact Kaying Lee, Mesa Water District Water Quality and Compliance Supervisor at 949.207.5491, or write to Mesa Water District, 1965 Placentia Ave, Costa Mesa, California 92627.

Table A. Summary of information related to contaminants exceeding PHGs in water delivered by Mesa Water, including concentration levels, health risk information, and estimated treatment costs

Parameter	Unit	PHG or (MCLG)	MCL	DLR	Concentration Groundwater	Concentration Surface Water	Category of Risk	Cancer Risk at PHG or MCLG	Cancer Risk at MCL	Best Available Technologies	Aggregate Cost Per Year	Cost Per Connection Per Year
INORGANIC CHEMICALS												
Arsenic	µg/L	0.004	10	2	ND - 2.3	NA	Carcinogen	1×10^{-6}	2.5×10^{-3}	AA, C/F, IX, LS, O/F, RO	$3,940,000 (IX)	$162 (IX)
Bromate	µg/L	0.1	10	1	NA	ND - 8.1	Carcinogen	1×10^{-6}	1×10^{-4}	RO	$2,370,000 - $3,840,000	$97 - $157
RADIOACTIVITY												
Gross Alpha Particle Activity	pCi/L	(0)	15	3	ND – 3.8	NA	Carcinogen	0	1×10^{-3}	RO	Note 1	Note 1
Gross Beta Particle Activity	pCi/L	(0)	50[2]	4	NA	ND - 7	Carcinogen	0	2×10^{-3}	IX, RO	$1,920,000 (IX)	$79 (IX)
Combined Radium-226/228	pCi/L	0.019[3]	5	NA[4]	NA	ND - 2	Carcinogen	1×10^{-6} [3]	3×10^{-4} [3]	IX, RO, LS	$1,920,000 (IX)	$79 (IX)
Uranium	pCi/L	0.43	20	1	ND - 2.8	ND - 3	Carcinogen	1×10^{-6}	5×10^{-5}	RO	Note 1	Note 1
ALL CONTAMINANTS[1]	--	--	--	--	--	--	--	--	--	**RO**	**$13,000,000 - $20,400,000**	**$534 - $837**

1 – Estimated cost to remove all contaminants by RO, assuming entire production volume is treated in a centralized facility.
2 – Judged equivalent to 4 mrem/year per OEHHA 2022 Health Risk Information for PHG Exceedance Reports.
3 – Based on the PHG for Radium-228. Combined radium-226/228 does not have a PHG but has an MCLG of zero. The cancer risk at an MCLG of zero is zero.
4 – Combined radium does not have a DLR but radium 226 and radium 228 have individual DLR of 1 pCi/L.

NOTES
PHG = Public Health Goal
MCLG = Maximum Contaminant Level Goal
MCL = Maximum Contaminant Level
DLR = Detection Limit for Purposes of Reporting
NA = Not Applicable
µg/L = micrograms per liter or parts per billion
pCi/L = picocuries per liter
mrem = millirem

TREATMENT/CONTROL TECHNOLOGIES
AA = activated alumna
C/F = coagulation/filtration
IX = ion exchange
LS = lime softening
O/F = oxidation/filtration
RO = reverse osmosis

REPORTS:

15. REPORT OF THE GENERAL MANAGER

REPORTS:

16. DIRECTORS' REPORTS AND COMMENTS

MEMORANDUM

Mesa Water District®

Dedicated to Satisfying our Community's Water Needs

TO: Board of Directors
FROM: Tracy E. Manning, Water Operations Manager
DATE: June 28, 2022
SUBJECT: Well No. 7 Pump Rehabilitation

RECOMMENDATION

This item is provided for information.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #2: Practice perpetual infrastructure renewal and improvement.

PRIOR BOARD ACTION/DISCUSSION

None.

BACKGROUND

The William K. Patrick Well (Well No. 7) was drilled in November 1986 to an original depth of 753 feet below ground surface. In 2000, the lower portion of the well was sealed to a depth of 575 feet below ground surface to reduce the impact of amber water. In October 2017, the Well Automation Project substantially completed work related to Well No. 7, including the installation of a new pump. The Well No. 7 pump has been in operation since 2017 and typically produces between 1,200 and 1,300 gallons per minute (gpm).

On Sunday, May 1, 2022, the Well No. 7 Pump experienced a mechanical failure and shutdown. The following week, the pump was removed from Well No. 7 and sent for inspection. Additionally, a video of the well shaft was taken to check for potential damage to the well. The well pump inspection report and well video are currently being reviewed to help determine the cause of the mechanical failure.

DISCUSSION

The initial findings of the well pump inspection indicate that the well pump experienced a failure of a mechanical bearing and is in need of repair. The well video indicates that the well itself remains intact and is not in need of repair. However, a minor cleaning of the screened intervals could be beneficial. Mesa Water staff is currently conducting a root cause analysis to identify the cause of the failure and make recommendations for repairs. Preliminary estimates indicate that it will take approximately 16 weeks and $250,000 to bring Well No. 7 back online. The extended schedule is due to procurement times for parts needed for the well pump repairs. Following the completion of the root cause analysis, an action item regarding Well No. 7 will be agendized at a future Board meeting.

FINANCIAL IMPACT

In Fiscal Year 2023, no funds are budgeted for Well No. 7 Pump Rehabilitation; funding will come from Cash on Hand.

ATTACHMENTS

None.

There are no support materials for this item.

CLOSED SESSION:

19. CONFERENCE WITH GENERAL LEGAL COUNSEL – ANTICIPATED LITIGATION: Initiation of litigation pursuant to California Government Code Section 54956.9 (d) (4). Number of Cases: 1