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Water Needs*

**AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Thursday, October 8, 2020
1965 Placentia Avenue, Costa Mesa, CA 92627
6:00 p.m. Regular Board Meeting**

**IN AN EFFORT TO MITIGATE THE SPREAD OF COVID-19 (CORONAVIRUS), AND IN ACCORDANCE WITH THE GOVERNOR'S EXECUTIVE ORDER N-29-20, THERE WILL BE NO PUBLIC LOCATION FOR ATTENDING THIS BOARD MEETING IN PERSON. MEMBERS OF THE PUBLIC MAY LISTEN AND PROVIDE PUBLIC COMMENT TELEPHONICALLY BY CALLING THE FOLLOWING NUMBER:
DIAL: (949) 207-5455
CONFERENCE ID: 130371#**

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 on the agenda. Each speaker is limited to three minutes. The Board will set aside 30 minutes for public comments.

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

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. Approve minutes of regular Board meeting of September 10, 2020.
2. Approve minutes of adjourned regular Board meeting of September 22, 2020.
3. Approve attendance considerations (additions, changes, deletions).
4. Board Schedule:
 - Conferences, Seminars, and Meetings
 - Board Calendar
 - Upcoming Community Outreach Events
5. Approve support of El Toro Water District Director Mark Monin for the position of President for the Independent Special Districts of Orange County Executive Committee election, and authorize President Shawn Dewane to be the District's voting delegate.



ACTION ITEMS:

6. MAINLINE VALVE SPACING POLICY:

Recommendation: Adopt Resolution No. 1534 Establishing a Mainline Valve Spacing Policy.

PRESENTATION AND DISCUSSION ITEMS:

None

REPORTS:

7. REPORT OF THE GENERAL MANAGER:
- September Key Indicators Report
 - Other (no enclosure)
8. DIRECTORS' REPORTS AND COMMENTS

INFORMATION ITEMS:

9. WATER CONSUMPTION FOR FISCAL YEARS 2019 & 2020
10. DIRECTORS' REPORTS (AB 1234) PER CA GOVERNMENT CODE SECTION 53232.3 (D)
11. OTHER (NO ENCLOSURE)

CLOSED SESSION:

12. CONFERENCE WITH GENERAL LEGAL COUNSEL – EXISTING LITIGATION:
Pursuant to California Government Code Section 54956.9(d)(1)
Reporting Issue: Department of Drinking Water

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 contact the District Secretary at (949) 631-1206. 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 utilizing 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 AN ADJOURNED REGULAR BOARD MEETING SCHEDULED FOR TUESDAY, OCTOBER 27, 2020 AT 3:30 P.M.



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**MINUTES OF THE BOARD OF DIRECTORS
MESA WATER DISTRICT
Thursday, September 10, 2020
1965 Placentia Avenue, Costa Mesa, CA 92627
6:00 p.m. Regular Board Meeting**

CALL TO ORDER	The meeting of the Board of Directors was called to order at 6:05 p.m. by President Dewane.
PLEDGE OF ALLEGIANCE	Director Fisler led the Pledge of Allegiance.
Directors Present	Shawn Dewane, President <i>(teleconference)</i> Marice H. DePasquale, Vice President <i>(teleconference)</i> Jim Atkinson, Director <i>(teleconference)</i> Fred R. Bockmiller, P.E., Director <i>(teleconference)</i> James R. Fisler, Director <i>(teleconference)</i>
Directors Absent	None
Staff Present	Paul E. Shoenberger, P.E., General Manager <i>(teleconference)</i> Phil Lauri, P.E., Assistant General Manager <i>(teleconference)</i> Denise Garcia, Administrative Services Manager/ District Secretary Wendy Duncan, Records Management Specialist/ Assistant District Secretary Marwan Khalifa, CPA, MBA, Chief Financial Officer/ District Treasurer Stacie Sheek, Customer Services Manager <i>(teleconference)</i> Tracy Manning, Water Operations Manager <i>(teleconference)</i> Rob Anslow, Partner, Atkinson, Andelson, Loya, Ruud & Romo <i>(teleconference)</i>
Others Present	Jonathan Aparicio, IT Support Engineer, T2 Technology Group

President Dewane stated that the Board of Directors was attending the meeting via teleconference per Governor Newsom's Executive Order N-29-20 which suspended certain provisions of the Ralph M. Brown Act.

President Dewane stated that for each action, a roll call vote was taken in accordance with California Government Code Section 54953(b)(2), which states, "all votes taken during a teleconferenced meeting shall be by roll call."

President Dewane proceeded with the meeting.

PUBLIC COMMENTS

President Dewane asked for comments on items not on the agenda.

There were no comments on non-agendized topics and President Dewane proceeded with the meeting.

ITEMS TO BE ADDED, REMOVED, OR REORDERED ON THE AGENDA

General Manager Shoenberger offered there were no items to be added, removed, or reordered on the agenda.

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. Approve minutes of regular Board meeting of August 13, 2020.
2. Approve minutes of adjourned regular Board meeting of August 25, 2020.
3. Approve attendance considerations (additions, changes, deletions).
4. Board Schedule:
 - Conferences, Seminars, and Meetings
 - Board Calendar
 - Upcoming Community Outreach Events

President Dewane asked for comments from the Board. There were no comments.

President Dewane asked for comments from the public. There were no comments.

MOTION

Motion by Director Fisler, second by Director Atkinson, to approve Items 1 – 4 of the Consent Calendar. Motion passed 5-0, by the following roll call vote:

AYES:	DIRECTORS	Atkinson, Bockmiller, Fisler, DePasquale, Dewane
NOES:	DIRECTORS	None
ABSENT:	DIRECTORS	None
ABSTAIN:	DIRECTORS	None

ACTION ITEMS:

None.

PRESENTATION AND DISCUSSION ITEMS:

None.

REPORTS:

5. REPORT OF THE GENERAL MANAGER:

- August Key Indicators Report
- Other (no enclosure)

6. DIRECTORS' REPORTS AND COMMENTS

Director Bockmiller asked about the procedure regarding posting notices for Board meetings.

District Secretary Garcia reported that notices of the Board meetings are posted on Mesa Water's website, and in hard copy at city locations designated for the posting of general notices. In addition, a call-in number for the meetings is provided on the agenda.

Director Bockmiller offered that the candidate running for Mesa Water District's Board of Directors for Division 2 has not attended any Mesa Water Board meetings.

INFORMATION ITEMS:

7. DIRECTORS' REPORTS (AB 1234) PER CA GOVERNMENT CODE SECTION 53232.3 (D)

8. OTHER (NO ENCLOSURE)

RECESS

President Dewane declared a recess at 6:26 p.m.

The Board meeting reconvened at 6:28 p.m.

GM Shoenberger reported that a Closed Session matter arose after the agenda was posted.

MOTION

Motion by Director Bockmiller, second by Director Atkinson, to add to the agenda a Closed Session item pursuant to California Government Code Section 54954.2(d)(1) based upon information provided by the General Manager as the matter arose after the agenda was posted and action is required prior to the next Board meeting. Motion passed 5-0, by the following roll call vote:

AYES:	DIRECTORS	Atkinson, Bockmiller, Fisler, DePasquale, Dewane
NOES:	DIRECTORS	None
ABSENT:	DIRECTORS	None
ABSTAIN:	DIRECTORS	None

President Dewane announced that the Board was going into Closed Session at 6:30 p.m.

CLOSED SESSION:

ITEM 9A - CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION:

Government Code Section 54956.9(d)(1)
Reporting Issue – Department of Drinking Water

The Board returned to Open Session at 7:02 p.m.

Attorney Anslow announced that the Board conducted one Closed Session with the General Manager, District Secretary, District Treasurer, and General Legal Counsel, pursuant to California Government Code Section 54956.9(d)(1), and, during the Closed Session, the Board took the following action:

MOTION

Motion by Director Atkinson, second by Vice President DePasquale, with respect to the Department of Drinking Water reporting issue, the Board authorized staff and General Legal Counsel to engage with, and respond to, this issue. Motion was approved by a roll call vote of 5-0.

President Dewane announced that the Board was going into Closed Session at 7:03 p.m.

9. CONFERENCE WITH LABOR NEGOTIATOR PURSUANT TO GOVERNMENT CODE 54957.6:
District Negotiator: General Manager
Employee Organization: District Employees

The Board returned to Open Session at 7:33 p.m.

District Secretary Garcia announced that the Board conducted one Closed Session with the General Manager, District Secretary, and District Treasurer pursuant to California Government Code Section 54957.6. The Board received information and there was no further announcement.

President Dewane adjourned the meeting at 7:35 p.m., in memory of retired United States Air Force and United States Coast Guard Captain Fred R. Bockmiller, to an Adjourned Regular Board Meeting scheduled for Tuesday, September 22, 2020 at 3:30 p.m.

Approved:

Shawn Dewane, President

Denise Garcia, District Secretary



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**MINUTES OF THE BOARD OF DIRECTORS
MESA WATER DISTRICT
Tuesday, September 22, 2020
1965 Placentia Avenue, Costa Mesa, CA 92627
3:30 p.m. Adjourned Regular Board Meeting**

BOARD OF DIRECTORS COMMITTEE MEETING

CALL TO ORDER	The meeting of the Board of Directors was called to order at 3:31 p.m. by President Dewane.
PLEDGE OF ALLEGIANCE	Director Atkinson led the Pledge of Allegiance.
Directors Present	Shawn Dewane, President <i>(teleconference)</i> Marice H. DePasquale, Vice President <i>(teleconference)</i> Jim Atkinson, Director <i>(teleconference)</i> Fred R. Bockmiller, P.E., Director <i>(teleconference)</i> James R. Fisler, Director <i>(teleconference)</i>
Directors Absent	None
Staff Present	Paul E. Shoenberger, P.E., General Manager <i>(teleconference)</i> Phil Lauri, P.E., Assistant General Manager <i>(teleconference)</i> Denise Garcia, Administrative Services Manager/ District Secretary Wendy Duncan, Records Management Specialist/ Assistant District Secretary <i>(teleconference)</i> Marwan Khalifa, CPA, MBA, Chief Financial Officer/ District Treasurer <i>(teleconference)</i> Stacie Sheek, Customer Services Manager <i>(teleconference)</i> Tracy Manning, Water Operations Manager <i>(teleconference)</i> Stacy Taylor, Water Policy Manager <i>(teleconference)</i> Celeste Carrillo, Public Affairs Coordinator <i>(teleconference)</i> Rob Anslow, Partner, Atkinson, Andelson, Loya, Ruud & Romo <i>(teleconference)</i>
Others Present	John Hamas, IT Project Manager, T2 Technology Group Dennis Albiani, Vice President, California Advocates, Inc. <i>(teleconference)</i> Anthony Molina, Legislative Advocate, California Advocates, Inc. <i>(teleconference)</i> Mark Monin, Director, El Toro Water District <i>(teleconference)</i>

President Dewane stated that the Board of Directors was attending the meeting via teleconference per Governor Newsom's Executive Order N-29-20 which suspended certain provisions of the Ralph M. Brown Act.

President Dewane stated that for each action, a roll call vote was taken in accordance with California Government Code Section 54953(b)(2), which states, "all votes taken during a teleconferenced meeting shall be by roll call."

President Dewane proceeded with the meeting.

PUBLIC COMMENTS

President Dewane asked for comments on items not on the agenda.

There were no comments on non-agendized topics and President Dewane proceeded with the meeting.

ITEMS TO BE ADDED, REMOVED, OR REORDERED ON THE AGENDA

General Manager Shoenberger pulled Item 8 and recommended the agenda be reordered to take Item 11 before Item 8 of the Consent Calendar. There were no objections.

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.

President Dewane asked for comments from the public. There were no comments.

MOTION

Motion by Vice President DePasquale, second by Director Fisler, to approve Items 1 – 7 and 9 – 10 of the Consent Calendar. Motion passed 5–0, by the following roll call vote:

AYES:	DIRECTORS	Atkinson, Bockmiller, Fisler, DePasquale, Dewane
NOES:	DIRECTORS	None
ABSENT:	DIRECTORS	None
ABSTAIN:	DIRECTORS	None

ACTION ITEMS:

11. INDEPENDENT SPECIAL DISTRICTS OF ORANGE COUNTY EXECUTIVE COMMITTEE ELECTION:

Water Policy Manager Taylor reviewed the topic and introduced El Toro Water District Director Monin who provided a brief statement regarding his candidacy for President of Independent Special Districts of Orange County (ISDOC).

Discussion ensued amongst the Board.

The Board thanked Director Monin for his statement.

President Dewane asked for comments from the public. There were no comments.

MOTION

Motion by Vice President DePasquale, second by Director Bockmiller, to approve support for El Toro Water District Director Mark Monin for the position of President for the Independent Special Districts of Orange County Executive Committee election, and authorize President Dewane to be the District's voting delegate. Motion passed 5-0, by the following roll call vote:

AYES:	DIRECTORS	Atkinson, Bockmiller, Fisler, DePasquale, Dewane
NOES:	DIRECTORS	None
ABSENT:	DIRECTORS	None
ABSTAIN:	DIRECTORS	None

ITEM 8 – Receive and file the State Advocacy Update.

Water Policy Manager Taylor introduced California Advocates, Inc. Vice President Dennis Albiani who proceeded with the State Advocacy update. Mr. Albiani introduced California Advocates, Inc. Legislative Advocate Anthony Molina who provided a brief budget update.

Mr. Albiani responded to questions from the Board and they thanked him for the update.

President Dewane asked for comments from the public. There were no comments.

MOTION

Motion by Vice President DePasquale, second by Director Fisler, to approve Item 8 of the Consent Calendar. Motion passed 5-0, by the following roll call vote:

AYES:	DIRECTORS	Atkinson, Bockmiller, Fisler, DePasquale, Dewane
NOES:	DIRECTORS	None
ABSENT:	DIRECTORS	None
ABSTAIN:	DIRECTORS	None

PRESENTATION AND DISCUSSION ITEMS:

None.

REPORTS:

- 12. REPORT OF THE GENERAL MANAGER
- 13. DIRECTORS' REPORTS AND COMMENTS

Director Bockmiller offered that the candidate running for Mesa Water District's Board of Directors for Division 2 has still not attended any Mesa Water Board or Committee meetings.

INFORMATION ITEMS:

- 14. OTHER (NO ENCLOSURE)

President Dewane adjourned the meeting at 4:03 p.m. to a Regular Board Meeting scheduled for Thursday, October 8, 2020 at 6:00 p.m.

Approved:

Shawn Dewane, President

Denise Garcia, District Secretary



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MEMORANDUM

TO: Board of Directors
FROM: Paul E. Shoenberger, P.E., General Manager
DATE: October 8, 2020
SUBJECT: Attendance at Conferences, Seminars, Meetings, and Events

RECOMMENDATION

In accordance with Ordinance No. 29, adopted February 14, 2019, authorize attendance at conferences, seminars, meetings, and events.

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 water issues.

PRIOR BOARD ACTION

At its June 11, 2020 meeting, the Board of Directors (Board) approved Fiscal Year 2021 attendance at Conferences, Seminars, Meetings, and Events.

DISCUSSION

During the discussion of this item, if any, the Board may choose to delete any item from the list and/or may choose to add additional conferences, seminars, meetings, or events for approval, subject to available budget or additional appropriation.

FINANCIAL IMPACT

None.

ATTACHMENTS

None.

2020 CONFERENCES, SEMINARS, AND MEETINGS:

October 5 - 9, 2020	
WEFTEC 2020 Conference	
Virtual	
October 14 - 15, 2020	
CAJPA Conference - "Pooling Today"	<i>Bockmiller</i>
Virtual	
October 14 - 15, 2020	
WaterNow Alliance 5th Annual Summit Philadelphia, PA	<i>Rescheduled to April 2021</i>
October 26 - 29, 2020	
AWWA CA-NV Annual Fall Conference	
Virtual	
October 29 - 30, 2020	
California H2O Women Conference Santa Barbara, CA	<i>Canceled</i>
December 2 - 3, 2020	
ACWA Fall Conference	<i>DePasquale</i>
Virtual	
December 14 - 16, 2020	
Colorado River Water Users Association Conference Las Vegas, NV	<i>Canceled</i>

October 2020

October 2020							November 2020						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	4	5	6	7	8	9	1	2	3	4	5	6	7
11	12	13	14	15	16	17	8	9	10	11	12	13	14
18	19	20	21	22	23	24	15	16	17	18	19	20	21
25	26	27	28	29	30	31	22	23	24	25	26	27	28
							29	30					

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Sep 27	28	29	30	Oct 1	2 7:30am WACO Meeting (MWDOC/OCWD Boardroom)	3
4	5 8:30am MWDOC Planning & Operations Committee Meeting (ZOOM)	6 7:30am ISDOC Executive Committee Meeting (ZOOM) 5:30pm Costa Mesa City Council Meeting (ZOOM)	7 WEFTEC 2020 Conference (VIRTUAL) 8:30am Jt. MWDOC/MWD Workshop (ZOOM) 12:00pm Ad Hoc Meeting (Virtual) 5:30pm OCWD Board Meeting (ZOOM)	8 8:30am SAWPA Virtual Summit (1st of 3 days) 6:00pm Mesa Water Board Meeting (ZOOM (Details in Body of Invite))	9 Pay Period Ends	10
11	12 5:00pm IRWD Board Meeting (ZOOM)	13 7:30am CANCELED OCBC Infrastructure Committee Meeting (2 Park Plaza, Suite 125 Irvine, 92614; OCBC Conference Room) 8:30am SAWPA Virtual Summit (2nd of 3 days)	14 R/S from 9/15-9/18 CAJPA Conference (VIRTUAL) Payday 8:00am LAFCO Meeting (ZOOM) 8:30am SAWPA Virtual Event (3rd of 3 days) 8:30am MWDOC Admin and Finance Committee (ZOOM)	15 8:30am R/S to 10/22 MWDOC Executive Committee Meeting (Conference Room 102) 11:30am CANCELED CM Chamber Event	16 3:00pm CalDesal - A Virtual Townhall (ZOOM)	17
18	19 8:30am MWDOC Public Affairs & Legislation (ZOOM)	20 7:30am WACO Planning Committee (ZOOM) 5:30pm Costa Mesa City Council Meeting (ZOOM)	21 8:30am MWDOC Board Meeting (ZOOM) 9:30am UWI Webinar w/ Jeffrey Kightlinger (ZOOM) 5:30pm OCWD Board Meeting (ZOOM)	22 8:30am R/S from 10/15 MWDOC Executive Committee Meeting (ZOOM)	23 Pay Period Ends	24
25	26 5:00pm IRWD Board Meeting (ZOOM)	27 AWWA CA-NV Annual Fall Conference (Virtual)	28 Payday 8:30am Jt. MWDOC/OCWD Meeting (ZOOM)	29 8:00am CANCELED H2O Women Conference (MD) (Ritz-Carlton Bacara, San Diego) 11:30am ISDOC Quarterly (MWDOC/OCWD BOARDROOM)	30	31

November 2020

November 2020							December 2020						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7			1	2	3	4	5
8	9	10	11	12	13	14	6	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26
29	30						27	28	29	30	31		

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Nov 1	2 8:30am MWDOC Planning & Operations Committee Meeting (Conference Room 101)	3 7:30am ISDOC Executive Committee Meeting (Conference Room 101) 12:00pm Executive Committee Meeting (Panian Conference Room) 5:30pm Costa Mesa City Council Meeting (Council Chambers)	4 8:30am Jt. MWDOC/MWD Workshop (MWDOC/OCWD Boardroom) 5:30pm OCWD Board Meeting (OCWD Boardroom)	5	6 Pay Period Ends 7:30am WACO Meeting (MWDOC/OCWD Boardroom)	7
8	9 5:00pm IRWD Board Meeting (15600 Sand Canyon Avenue in Irvine)	10 7:30am OCBC Infrastructure Committee Meeting (2 Park Plaza, Suite 125 Irvine, 92614; OCBC Conference Room)	11 District Holiday Payday 8:00am LAFCO Meeting (Hall of Administration 10 Civic Center Plaza Santa Ana, CA 92701) 8:30am R/S to 11/12 MWDOC Admin and Finance Committee (Conference Room 101)	12 8:30am R/S from 11/11 MWDOC Admin and Finance Committee (Conference Room 101) 6:00pm Mesa Water Board Meeting (Boardroom)	13	14
15	16 8:30am MWDOC Public Affairs & Legislation (Conference Room 101) 5:30pm Costa Mesa City Council Meeting	17 7:30am WACO Planning Committee Meeting 5:30pm Costa Mesa City Council Meeting	18 8:30am MWDOC Board Meeting (MWDOC/OCWD Boardroom) 5:30pm OCWD Board Meeting (OCWD Boardroom)	19 8:30am MWDOC Executive Committee (Conference Room 102) 11:30am CM Chamber Event	20 Pay Period Ends	21
22	23 5:00pm IRWD Board Meeting (15600 Sand Canyon Avenue in Irvine)	24	25 Payday	26 District Holiday	27 District Holiday	28
29	30 10:15am ACWA/JPIA Executive Committee Meeting (Indian Wells) 1:30pm ACWA/JPIA Board of Directors Meeting (Indian Wells) 4:00pm ACWA/JPIA Town Hall Meeting (Indian Wells) - Bobbette Wells	Dec 1	2	3	4	5

December 2020

December 2020							January 2021						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5						1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28	29	30
							31						

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Nov 29	30	Dec 1 7:30am ISDOC Executive Committee Meeting (Conference Room 101) 3:00pm ACWA Communications Committee Meeting (MD) (Indian Wells) 5:30pm Costa Mesa City Council Meeting (Council Chambers)	2 ACWA Fall Conference (Virtual) 8:30am CANCELED Jt. MWDOC/MWD Workshop (MWDOC/OCWD Boardroom) 5:30pm OCWD Board Meeting (OCWD Boardroom)	3	4 Pay Period Ends 7:30am R/S TO 12/11 WACO Meeting (MWDOC/OCWD Boardroom)	5
6	7 8:30am R/S to 12/14 MWDOC Planning & Operations Committee Meeting (Conference Room 101)	8 7:30am OCBC Infrastructure Committee Meeting (2 Park Plaza, Suite 125 Irvine, 92614; OCBC Conference Room) 12:00pm Executive Committee Meeting (Panian Conference Room)	9 Payday 8:00am LAFCO Meeting (Hall of Administration 10 Civic Center Plaza Santa Ana, CA 92701) 8:30am MWDOC Admin and Finance Committee (Conference Room 101)	10 6:00pm Mesa Water Board Meeting (Boardroom)	11 7:30am R/S from 12/4 WACO Meeting (MWDOC/OCWD Boardroom)	12
13	14 8:30am R/S from 12/7 MWDOC Planning & Operations Committee Meeting (Conference Room 101) 5:00pm IRWD Board Meeting (15600 Sand Canyon Avenue in Irvine)	15 Colorado River Water Users Association Conference 7:30am WACO Planning Committee 5:30pm Costa Mesa City Council Meeting	16 8:30am MWDOC Board Meeting (MWDOC/OCWD Boardroom) 5:30pm OCWD Board Meeting (OCWD Boardroom)	17 8:30am MWDOC Executive Committee (Conference Room 102) 11:30am CM Chamber Event	18 Pay Period Ends	19
20	21 8:30am MWDOC Public Affairs & Legislation (Conference Room 101)	22	23 Payday	24 District Holiday	25 District Holiday	26
27	28 5:00pm IRWD Board Meeting (15600 Sand Canyon Avenue in Irvine)	29	30	31 District Holiday	Jan 1, 21	2



MesaWater
DISTRICT®

UPCOMING COMMUNITY OUTREACH EVENTS

<p>Mesa Water Video Contest</p>	<p>Contest Starts Tuesday, September 1, 2020 And Contest Ends Saturday, October 31, 2020 at 5:00 p.m.</p>	<p>Online at MesaWater.org/VideoContest</p>
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MEMORANDUM

TO: Board of Directors
FROM: Paul E. Shoenberger, P.E., General Manager
DATE: October 8, 2020
SUBJECT: Independent Special Districts of Orange County Executive Committee Election

RECOMMENDATION

Approve support of El Toro Water District Director Mark Monin for the position of President for the Independent Special Districts of Orange County Executive Committee election, and authorize President Shawn Dewane to be the District's voting delegate.

The Board of Directors reviewed this item at its September 22, 2020 Board of Directors Committee Meeting and recommends approval.

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 water issues.

PRIOR BOARD ACTION/DISCUSSION

At its August 13 and August 25, 2020 meetings, the Board of Directors (Board) received discussion items in order to discuss the possible nomination of a candidate from Mesa Water District (Mesa Water®) for the Independent Special Districts of Orange County Executive Committee election; no candidate was put forth.

At its September 22, 2020 meeting, the Board discussed the candidates for the position of President for the Independent Special Districts of Orange County Executive Committee election. They voted to support the candidacy of El Toro Water District Director Mark Monin for the position of President, and authorized Shawn Dewane to be the District's voting delegate.

DISCUSSION

The Independent Special Districts of Orange County (ISDOC) will elect the members of their Executive Committee by ballot during the month of October; new officers will be announced at ISDOC's quarterly meeting on October 29, 2020. The elected Executive Committee members will serve a two-year term that begins January 1, 2021 and ends December 31, 2022. Meetings of ISDOC's Executive Committee occur on the first Tuesday of every month at 7:30 a.m. at the offices of the Municipal Water District of Orange County (MWDOC) in Fountain Valley, CA.

In order to have been considered, a candidate must be an elected or appointed official of a regular member district and be endorsed by his/her district in the form of a Board resolution. The nomination period for Executive Committee officer positions closed on September 11, 2020. All



candidates nominated by their respective Boards were placed on the ballot for the full membership to vote.

Each regular member District in good standing shall be entitled to one vote per position. In accordance with current bylaws, the votes must be cast (signed) by the District's presiding officer or an alternate selected by the District's Board. The ballots were sent out – via U.S mail and email - on September 15, 2020 with a deadline to be returned no later than 5 p.m. on October 23, 2020.

The responsibilities of each Executive Committee position nominated are as follows:

President – The President is the chief executive officer of ISDOC. He or she presides at all meetings of the Board of Directors and the Executive Committee, appoints all committees, and represents ISDOC as its official spokesperson.

First Vice President – The First Vice President chairs the Program Committee. Duties include planning the Quarterly Luncheon program, inviting and coordinating with the invited speaker, and in the absence of the President, shall perform all duties of the President.

Second Vice President – The Second Vice President chairs the Membership Committee. Duties include maintaining a list of current regular and associate members, follow up with any outstanding membership dues as needed, and in the absence of the President and First Vice President, shall perform all duties of the President.

Third Vice President – The Third Vice President chairs the Legislative Committee. Duties include providing a legislative update, making legislative position recommendations to the Executive Committee, and in the absence of the President, First Vice President, and Second Vice President, shall perform all duties of the President.

Secretary – The Secretary is responsible for all correspondence and the dissemination of information to members. Duties include preparing and distributing agendas and minutes for the Executive Committee meetings, and editing and publishing the quarterly newsletter. All official correspondence to the members will be approved in advance by the President or President's designee.

Treasurer – The Treasurer maintains the complete financial records and bank accounts in the name of the Organization, and pays all bills duly approved by the, Executive Committee, with a report to be presented to the membership at the Organization's next membership meeting.

The current Executive Committee members are as follows:

President – Sandra F. Jacobs, Santa Margarita Water District

1st Vice President – Mark Monin, El Toro Water District

2nd Vice President – Arlene Schafer, Costa Mesa Sanitary District

3rd Vice President – Mary Aileen Matheis, Irvine Ranch Water District

Secretary – Bill Green, South Coast Water District

Treasurer – Joan C. Finnegan, Municipal Water District of Orange County

Immediate Past President – James R. Fisler, Mesa Water District



The ISDOC bylaws indicate that, “at the end of the nomination period if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected”. This is the case for the First Vice President, Second Vice President, Third Vice President, Secretary, and Treasurer positions; therefore, they are not on the ballot. Arlene Schafer from Costa Mesa Sanitary District, Larry Dick from the Municipal Water District of Orange County, Mary Aileen Matheis from Irvine Ranch Water District, Greg Mills from Serrano Water District, and Bill Green from South Coast Water District, respectfully, have been selected to these seats.

Following are the list of ballot candidates and the respective seats they are pursuing:

President

Mark Monin, El Toro Water District

Lucille Kring, Orange County Mosquito & Vector Control District

FINANCIAL IMPACT

None; the annual membership dues to ISDOC are estimated at \$50.

ATTACHMENTS

Attachment A: ISDOC Election Correspondence

Attachment B: ISDOC Election of Officers Ballot

Attachment C: Candidate Correspondence from Mark Monin

Attachment D: Candidate Correspondences from Lucille Kring



Mailing Address

P.O. Box 20895
Fountain Valley, CA 92728

Meeting Location

MWDOC/OCWD
18700 Ward Street
Fountain Valley, CA 92708

(714) 963-3058
(714) 964-5930 fax

www.mwdoc.com/isdoc

Executive Committee

President
Hon. Sandra F. Jacobs
Santa Margarita Water District

1st Vice President
Hon. Mark Monin
El Toro Water District

2nd Vice President
Hon. Arlene Schafer
Costa Mesa Sanitary District

3rd Vice President
Hon. Mary Aileen Mathews
Irvine Ranch Water District

Secretary
Hon. Bill Green
South Coast Water District

Treasurer
Hon. Joan C. Finnegan
Municipal Water District of Orange County

Immediate Past President
Hon. James R. Fisler
Mesa Water District

Staff Administration

Heather Baez
Municipal Water District of Orange County

Christina Hernandez
Municipal Water District of Orange County

September 15, 2020

RE: Election of Independent Special Districts of Orange County (ISDOC) Officers

Dear Member Districts,

The nomination period for Executive Committee officer positions closed on September 11th, 2020. At this time, ISDOC is conducting a vote of Regular Special District Members for the election of officers. This letter serves as official notice of the election.

The names of nominated candidates are printed on the ballot. Please vote for one candidate per seat.

The Executive Committee meets at 7:30 am on the first Tuesday of the month. Meetings are open to the public. Duties of Executive Committee members are contained in the ISDOC bylaws, which may be found at the ISDOC website - <http://www.mwdoc.com/ISDOC>.

Each Regular Member District in good standing shall be entitled to one vote. In accordance with current bylaws, the district's presiding officer or an alternate must cast (signed) select the vote by the district board.

You may submit your ballot via mail or email to Heather Baez: P.O. Box 20895, Fountain Valley, CA 92728 (mail) or hbaez@mwdoc.com (email). **Ballots must be received by 5:00 p.m. on Friday, October 23, 2020 in order to be counted. Even if positions are uncontested, it is important to submit a ballot since a quorum of voting members is required for the election of officers.**

The names of officers elected will be announced at the October 29th quarterly meeting.

If you have any questions or wish to discuss the election process further, please contact Heather Baez (MWDOC) at hbaez@mwdoc.com or (714) 593-5012.

Sincerely,

Sandra F. Jacobs

Sandra F. Jacobs, President
Independent Special Districts of Orange County

Enclosed: Ballot for ISDOC Election of Officers
Candidates' Statements

INDEPENDENT SPECIAL DISTRICTS OF ORANGE COUNTY ELECTION OF OFFICERS

The ISDOC Executive Committee consists of the President, First Vice President, Second Vice President, Third Vice President, Secretary, Treasurer and Immediate Past President. Officers are elected in October of even numbered years for two-year terms. Please vote for one candidate per seat.

The ISDOC bylaws indicate, "At the end of the nominating period if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected." This is the case for the First Vice President, Second Vice President, Third Vice President, Secretary, and Treasurer positions; therefore they are not on the ballot. Arlene Schafer from Costa Mesa Sanitary District, Larry Dick from the Municipal Water District of Orange County, Mary Aileen Matheis from Irvine Ranch Water District, Greg Mills from Serrano Water District, and Bill Green from South Coast Water District, respectfully, have been selected to these seats.

Cast your Vote: Please cast your vote for the remaining seats by placing an "X" on the line next to the individual for which you wish to vote in each position. If you are writing in a candidate, please include their district affiliation and position.

President

_____ Mark Monin, Director
El Toro Water District

_____ Lucille Kring, President
Orange County Mosquito & Vector Control District

DISTRICT NAME

SIGNATURE OF VOTING REPRESENTATIVE

Ballots must be received no later than 5 p.m. October 23, 2020.

You may return your ballot by mail or email to:

Heather Baez
P.O. Box 20895
Fountain Valley, CA 92728
Attention: ISDOC Executive Committee Election
OR Email: hbaez@mwdoc.com



El Toro Water District

"A District of Distinction"

Serving the Public - Respecting the Environment

Board of Directors

Mark L. Monin
President

Mike Gaskins
Vice President

Jose F. Vergara
Director

Kathryn Freshley
Director

Kay Havens
Director

General Manager

Dennis P. Cafferty

Treasurer

Neely Shahbakhti



Re: Mark Monin for ISDOC Executive Committee, President

I would be honored to serve as President for the Independent Special Districts of Orange County. I have been an active participant in ISDOC for 5 years and firmly believe in the benefits it brings to the Special Districts in Orange County. ISDOC's achievements were recently recognized by CSDA in awarding ISDOC the CSDA Chapter of the Year Award. I would be proud to help guide the continued success of this critical collaboration of agencies with similar interests and needs.

I currently serve on the ISDOC Executive Committee as the 1st Vice President, chairing the Program Committee. Duties include planning the Quarterly Luncheon Program and inviting and coordinating with the invited speakers. I arranged speakers such as Supervisor Lisa Bartlett and recently Supervisor Donald Wagner. Even though it was not my duty, I brought in a new associate member to ISDOC this year.

In the past I served on the ISDOC Executive Committee as the 2nd Vice President chairing the Membership Committee. Duties included maintaining a list of current regular and associate members and follow up with any outstanding membership dues as needed.

I am a Director on the El Toro Water District Board of Directors and currently serve as President. In addition, I am a Commissioner on the Orange County Airport Land Use Commission, currently serving as Vice Chairman. I was also a PCF Fire Fighter with the Orange County Fire Authority. I have proven to be a fiscally responsible individual with a "think out of the box mentality" and I look forward to working with the other ISDOC Board members to achieve greatness. I love Orange County and want to work hard here and in Sacramento to help Special Districts progress into the future. With the exception of one meeting, I have attended every ISDOC Executive Committee meeting in the last 4 years and I know the issues that have affected ISDOC in the past and what is important to propel this fine organization in the future. My qualifications for this position include:

**>EXPERIENCED LEADER >COMMITTED TO SPECIAL DISTRICTS >FISCALLY RESPONSIBLE
>DEDICATED**

As you know ISDOC is a membership association that was formed more than 30 years ago to serve the needs of Orange County's independent special districts. I want to continue to build on that fine tradition, work hard with others to achieve a higher degree of member satisfaction and make ISDOC even stronger. I feel I can collaborate with the Executive Committee and the membership to provide valuable information and presentations on issues that affect Special Districts which can help you with important discussions in the future.

Please see the accompanying resume outlining my experience and education. I would love to hear your thoughts on how we can make ISDOC even better and please contact me with your input, ideas or questions on my experience or platform. I can be reached at (949) 939-6612 or markmonin@msn.com.

Sincerely,

Mark L. Monin
El Toro Water District
President

Mark L. Monin
1 Orchard, Suite 130
Lake Forest, CA 92630
(949) 939-6612
Mark.Monin@raymondjames.com



Mark Monin serves as President, Board of Directors at the EL Toro Water District. Senior Vice President at Raymond James, with over 39 years in the securities industry. Mark is also a former firefighter and has experience in the aviation industry, with pilot FAA Licenses private, commercial, instrument and multi engine FAA licenses and has over 2000 total hours PIC.

Professional Experience

Water District

- El Toro Water District, President Board of Directors, Lake Forest, CA 2015 -Present
- ISDOC 1st Vice President 2016- Present
- ACWA Chair of Education Sub Committee 2019-Present
- ACWA Finance Committee 2016 – Present
- ACWA Energy Committee 2017 – 2020
- ACWA Business Development Committee 2017-2020
- ACWA monitored many Breakout sessions at the ACWA conferences 2016 – Present

Financial Investment/Securities Industry (39 Years)

- Raymond James Financial Services, Newport Beach 2009-current
- Oppenheimer & Co. Newport Beach, California 2005-2009
- Morgan Stanley, Sales Manager / Financial Advisor, Los Angeles / Orange County 1998 - 2005
- Merrill Lynch, Manager / Financial Advisor, Los Angeles / Orange County 1994 - 1998
- Prudential Securities, Assistant Manager, Anaheim 1991 – 1994

Aviation Experience / Aviation Organizations / Community Involvement

- Pilot Data & FAA Licenses
 - Private
 - Commercial
 - Instrument
 - Multi engine
 - Over 2000 total hours PIC since 1977
- Vice Chairman of the Orange County Airport Commission (Land Use) 2015-present
- Adjunct Professor at California Baptist University, Riverside, CA 2015- 2016
 - Teaches Aviation Law and Aviation Finance
- Civil Air Patrol (Auxiliary United States Air Force) from 1992-1996
 - *Aerial and ground search & rescue,*
- *Civil Air Patrol Aerial Disaster inspection, Orange County, CA*
 - *DEA and Customs assistance in aerial surveillance, air transport from 1992-1996*
- Flying Samaritans/ Liga
 - Free medical clinics; fly physicians/medical professionals to Mexico 1995-present
- Angel Flight Pilot
 - Provides transportation to medical treatment for those who cannot afford/tolerate public transportation, 1998-present
- Southern California Pilots Association
 - To provide a collective voice for General Aviation at our So CA Airports.
 - Develop a positive working relationship with the airport administration.
 - Foster camaraderie amongst So CA Pilots with aviation related
 - Enhance safety and education in the So CA Pilot community.
- Orange County Pilots Association (OCPA)
 - OCPA is an association of aviation enthusiasts with the purpose of promoting aviation at the Orange County Airport
- Experimental Aviation Association (EAA)

- **Experimental Aircraft Association** based in Oshkosh, Wisconsin, encourages and supports recreational aviation.

Security Experience

- Saddleback Church
 - *Supervisor Irvine South Campus* 2014-2018

Firefighter Experience

- Orange County Fire Authority
 - *PCF/ Firefighter/Engineer/ search & rescue/ medical training* (first responder) 1988-1995
- Twin District Fire Department, Lancaster, NY
 - *Firefighter/ Engineer/ search & rescue/ medical training* (first responder) 2005-2006
- Lancaster Fire Department, Lancaster, NY
 - *Firefighter/ Engineer/ search & rescue/ medical training* (first responder) 1982-1984
- Egypt Fire Department, Rochester/Perrington, NY
 - *Firefighting/ Engineer/ search & rescue/ medical training* (first responder) 1985-1987

Boards/Committees/Community Involvement

- El Toro Water District, Board of Directors 2015 – Present
- Vice Chairman of the Orange County Airport Land Use Commission 2015 – Present
- Finance Committee of The Association of California Water Agencies and its Education Subcommittee, Investment Subcommittee 2015 – Present
- South Orange County Watershed Management Area Executive Committee
- Independent Special Districts of Orange County (ISDOC)
- Water Advisory Committee of Orange County (WACO)
- Orange County Water Association (OCWA)
- City of Laguna Woods Public Safety Committee Chairman 2012-2015 Past Chairman
- City of Laguna Woods Landscape Committee, Past Member
- Newport Beach Chamber of Commerce, Past Member
- Irvine Chamber of Commerce, Past Member

Education/Licensure

- Pepperdine University, Malibu California, Masters in Business Administration, 2002
- The Wharton School, University Of Pennsylvania, Senior Financial Advisor
- The Wharton School, University Of Pennsylvania, Management Training Program
- Institute of Investment Management Consulting, Investment Management Consultant
- The Institute of Business & Finance: Certified Annuity & Fund Specialist
- Board Certified in Asset Allocation
- Canisius College, Buffalo New York, BS/Finance, 1981
- University of Buffalo, Aeronautical Engineering, 1978
- Federal Aviation Administration, Multi Engine, 2000
- New York Stock Exchange, Series 8, Branch Manager, 1990
- National Association of Securities Dealers, Series 65, Financial Planning, since 1989
- California Department of Real Estate, since 1988
- National Association of Securities Dealers, Series 3, Futures, since 1988
- National Association of Securities Dealers, Series, Options Principal, since 1983
- National Association of Securities Dealers, Series 24, Principal Supervisor, since 1983
- National Association of Securities Dealers, Series 63, State Licensing, since 1981
- Securities Licensed in California, Colorado, Connecticut, Delaware, Georgia, Iowa, Illinois, Indiana, Louisiana, Maryland, New Jersey, New York, Ohio, Pennsylvania
- National Association of Securities Dealers, Series 7, 1981, Financial Advisor
- Federal Aviation Administration, Commercial, 1979
- Federal Aviation Administration, Instrument, 1978
- Federal Aviation Administration, Private, 1977

September 10, 2020

Honorable Sandra Jacobs

Dear Ms. President,

My name is Lucille Kring, Councilwoman Anaheim and am applying for the position of President of ISDOC.

I am completing 16 years on City Council. and during that time was very active in the OC League of Cities.

I was on the following committees: Employee Relations, Energy, Environment and Natural Resources, Legislative and Public Affairs, Community Services, Conference Delegate and attended their Councilmember Academy.

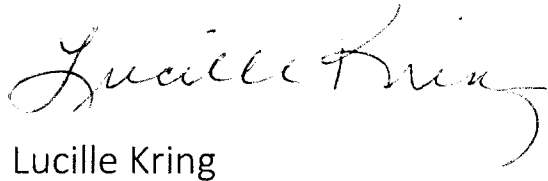
I currently sit on these boards: Transportation Corridor Agencies, OC Sanitation District, OC Mosquito and Vector Control, where I was President twice, Anaheim Regional Medical Center and Palm Lane Charter School.

Anaheim is a member city with Association of California Cities-OC Division, and I am on the executive board.

I am very active in non-profits: currently on boards: Cops 4 Kids and Anaheim Family YMCA.

I believe I bring a wealth of elected and appointed experience to this board. I think I would well suited to be President.

Sincerely

A handwritten signature in cursive script that reads "Lucille Kring". The signature is written in black ink and is positioned above the printed name.

Lucille Kring



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Board of Directors
FROM: Phil Lauri, P.E., Assistant General Manager
DATE: October 8, 2020
SUBJECT: Mainline Valve Spacing Policy

RECOMMENDATION

Adopt Resolution No. 1534 Establishing a Mainline Valve Spacing Policy.

STRATEGIC PLAN

Goal #2: Practice perpetual infrastructure renewal and improvement.
Goal #6: Provide outstanding customer service.

PRIOR BOARD ACTION/DISCUSSION

At its August 25, 2020 meeting, the Board of Directors (Board) provided direction to staff to further develop the Mainline Valve Spacing Policy to clarify the policy regarding the abandonment of existing valves.

BACKGROUND

Mesa Water District (Mesa Water®) has 5,400 total valves and 4,400 mainline valves throughout its distribution system. Mainline valves are traditionally installed along mainlines to facilitate maintenance and repair activities. The District's valves are of varying age as they were progressively installed over the last several decades as the City of Costa Mesa was developed and built out.

To maintain the mainline valves, Mesa Water routinely exercises its mainline valves every two years. Mesa Water's disciplined approach to maintenance has enhanced the life span of the valves within the distribution system. The average life span of a mainline valve is 30 to 40 years depending on several external and environmental factors (e.g., maintenance, installation conditions, aggressive soil and water, etc.). In addition to exercising valves, Mesa Water's routine maintenance activities help to identify valves that are in need of repair or replacement.

Functional mainline valves are a critical component to operating a quality distribution system to minimize impacts to customers when mainline repairs or maintenance occur. In the event of pipeline repairs or maintenance, the system valves on either side of the pipe segment requiring repair or maintenance must be closed to isolate the pipe segment. Thus, all customer services between the closed valves will experience a water service outage. Customer services include single family residences, multifamily residential buildings, multifamily residential complexes, schools, and commercial/industrial businesses.

While Mesa Water does an excellent job at minimizing impacts to customers during mainline repair activities, many of the District's valves were installed prior to the existence of a specific industry spacing standard being available. There is a potential that some areas within Mesa Water's service area will be disproportionately affected due to the development density mixture and how the City of Costa Mesa was developed through the years. Therefore, a standard valve



spacing and population service standard are essential to limit impacts to Mesa Water's customers during mainline repairs.

DISCUSSION

Mesa Water's routine maintenance activities have identified 168 mainline valves that are in need of replacement as part of its Capital Improvement Program Renewal (CIPR) effort. Prior to replacing the proposed 168 mainline valves, Mesa Water performed a Valve Optimization Assessment (VOA) that evaluated the existing valve spacing throughout the District against the American Water Works Association (AWWA) standard for valve spacing. The VOA is included as Attachment B. The assessment also took into account the various population densities throughout Mesa Water's service area based on the most current Census population update. The VOA focused on four main criteria for its assessment:

- Residential Spacing: 800 feet (in accordance with AWWA Standard)
- Commercial Spacing: 500 feet (in accordance with AWWA Standard)
- Low Density Residential (LDR): 80 People
- High Density Residential (HDR): 200 People

Mesa Water's service area encompasses land uses zoned for low density residential, medium density residential (MDR), high density residential, public, commercial and industrial land uses. For the purpose of the VOA, MDR and HDR were evaluated in accordance with the HDR criteria, and commercial and industrial land uses were evaluated in accordance with the commercial criteria. The VOA findings and recommendations include the following:

- 511 Existing Valves to be Abandoned in Place
- 422 New Valves to be Added

The abandonment of the existing 511 valves are considered to be redundant valves that were originally installed close to other valves and are not considered essential to the operations of the distribution system. The addition of the 422 valves will be strategically added to address the key assessment criteria outlined above to minimize customer impacts. Additionally, the 422 valves were recommended for addition based on the following criteria:

- Two Valves Minimum Installed at Main T-Intersections
- Three Valves Minimum Installed at Main Cross-Intersections
- Three Valves Installed at All School Service Connections
- Three Valves Installed at All Single Service High Density Developments

Based on the aforementioned criteria and VOA, a Mainline Valve Spacing Policy (Attachment A) has been drafted for the Board's consideration and potential adoption. The Mainline Valve Spacing Policy is summarized in the following section.



Summary of Mainline Valve Spacing Policy

1. Valve Placement at Pipeline Intersections

- a. **Major Pipeline Intersections:** For pipelines 8 inches in diameter and larger in major streets, valves shall be placed at all pipeline intersections to allow for isolation of each branch. Cross intersections shall have a minimum of three valves. Tee intersections shall have a minimum of two valves.
- b. **Neighborhood Intersections:** Isolation valves are not required at residential neighborhood intersections.

2. Valve Spacing in Residential Zoning

- a. **Low Density Residential (LDR)** valve spacing shall be a maximum of 800 feet and shall cause no more than 80 persons to be without water service when adjacent valves are closed.
- b. **Medium and High Density Residential (MHDR)** valve spacing shall be a maximum of 800 feet and shall cause no more than 200 persons to be without water service when adjacent valves are closed.
 - i. Where a single domestic water service connection serves more than 200 persons, the main pipeline serving the connection shall have isolation valves on each side of the connection.

3. Valve Spacing in Commercial Zoning

- a. **Commercial zoning**, which for the purposes of this policy includes commercial, industrial, and public land uses (excluding parks), shall have maximum valve spacing of 500 feet.
 - i. Where a single domestic service connection serves a school building, the main pipeline serving the connection shall have three isolation valves at the point of connection.

4. Valve Abandonments and Additions

- a. Valves slated for abandonment shall be maintained bi-annually until they reach the end of their useful life. At that time, the new valve, located in accordance with this policy, will be installed.
- b. The valves will be opened and abandoned in place. The valve cans will be removed to 30 inches below ground surface. The remaining portions of the valve cans will be slurry filled and the surface repaired. The valves will be monitored through the leak detection program every 5 years once the valve body age reaches 75 years on the age of the abandoned valve. Valve bodies found to be leaking prior to pipeline replacement or rehabilitation will be removed from the system. Otherwise, the valves will be removed through pipeline rehabilitation and replacement projects.



- c. Valves to be added shall be installed as part of routine capital improvements for valves and pipelines.
 - i. As pipelines are replaced, valves shall be located on the new pipeline in accordance with this policy.
- d. If a change in land use classification is made, the more stringent requirements of this policy shall apply.

Cost Savings

Application of this policy to the existing system of 5,400 total valves and 4,400 mainline valves allows for the abandonment of 511 existing valves and 23 valves not needing replacement as identified through the routine valve maintenance activities with an estimated cost savings of \$4.35 MM over the life of the valves (30 – 40 years), as summarized in Table 1 and detailed in Attachment B. Application of this policy also includes the addition of 422 new valves. This policy will be implemented as existing valves reach the end of their useful life and will be replaced in the optimized location through the Routine Operations Capital Replacement Program or as pipelines reach the end of their useful life and are replaced. Valves on the new pipeline will be located in accordance with the valve spacing policy.

Table 1. Cost Savings

	Simple Replacement (\$6,500/valve)	Complex Replacement (\$20,000/valve)	Total Valves Abandoned	Cost Savings
CIPR Program Valves to Abandon	14	9	23	\$270,000
System-wide Valves to Abandon	421	67	488	\$4,080,000
Total	435	76	511	\$4,350,000

Continuous Improvement

The valve spacing policy shall be re-assessed every five years. Valves may be abandoned or added at the discretion of the District Engineer or Water Operations Manager. Such abandonments or additions shall be reported to the Board at the next policy review and more often as the General Manager may see fit.

FINANCIAL IMPACT

In Fiscal Year 2021, the financial impact from the recommendation to adopt Resolution No. 1534 is a savings of approximately \$70,000 in valves that will not be replaced.

ATTACHMENTS

- Attachment A: Draft Resolution No. 1534
- Attachment B. Valve Spacing GIS Methodology White Paper

RESOLUTION NO. 1534

RESOLUTION OF THE MESA WATER DISTRICT BOARD OF DIRECTORS ESTABLISHING A MAINLINE VALVE SPACING POLICY

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, Mesa Water has assets that will eventually need to be replaced, abandoned or discarded because they have a finite life; and

WHEREAS, currently the most valuable asset is the water distribution system, which shall therefore be the scope of this resolution; and

WHEREAS, the water distribution system includes over 5,400 valves that require regular maintenance, repair or replacement; and

WHEREAS, in the event of pipeline maintenance, repair or replacement activities, the valves on either side of the pipe segment must be closed to isolate the pipe segment requiring maintenance, repair or replacement and all customers located between the closed valves experience water service outages; and

WHEREAS, the Board of Directors desires to establish a policy that will create valve spacing and population service standards to reduce water service outages during mainline maintenance, repair and replacement activities, and enhance the life span of the valves within the water distribution system.

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

- Section 1.** The Board of Directors of Mesa Water District does hereby approve and adopt the Mainline Valve Spacing Policy (Policy) (Appendix A).
- Section 2.** The Board hereby authorizes and directs the General Manager to take such actions as may be deemed necessary or advisable to affect the intent of the forgoing resolution.
- Section 3.** This Resolution shall be re-assessed every five years.
- Section 4.** This Policy shall take effect immediately upon adoption.

ADOPTED, SIGNED, and APPROVED this 8th day of October 2020 by a roll call vote.

AYES: DIRECTORS:
NOES: DIRECTORS:
ABSENT: DIRECTORS:
ABSTAIN: DIRECTORS:

Shawn Dewane
President, Board of Directors

Denise Garcia
District Secretary

DRAFT

RESOLUTION NO. 1534

APPENDIX A

**RESOLUTION OF THE
MESA WATER DISTRICT BOARD OF DIRECTORS
ESTABLISHING A MAINLINE VALVE SPACING POLICY**

Mesa Water District
Mainline Valve Spacing Policy

Effective: October 8, 2020

MESA WATER DISTRICT MAINLINE VALVE SPACING POLICY

1. Valve Placement

a. **Main Valve Intersections:** Mainline isolation valves shall be placed at all main pipeline intersections as follows:

- i. **Cross Intersection:** A minimum of three valves shall be placed at all main pipeline intersections. Valves should generally be located within 50-feet of the point of intersection.
- ii. **T-Intersection:** A minimum of two valves shall be placed at all main pipeline T-intersections in accordance with Mesa Water District Standard Plan No. 14. Valves should generally be located within 50-feet of the point of intersection.
- iii. **Neighborhood Intersections:** Isolation valves are not required at residential neighborhood intersections unless:
 - 1) An operational need is identified by the District Engineer or Operations Manager.
 - 2) Pipe Segment Length and Population served criteria dictate the need for a valve.

b. **Terms:** Terms are defined as follows:

- i. **Cross Intersection:** A Cross-Intersection is defined as the intersection of two pipelines 8-inch diameter and greater, where:
 - 1) after intersecting, the pipes continue in separate directions, and
 - 2) where the intersection occurs in a street where there are two or more marked lanes in both of the streets, and/or a center divider or median.
- ii. **T-Intersection:** A T-Intersection is defined as the intersection of two pipelines 8-inch diameter and greater, where:
 - 1) one pipe dead ends into the other and the second continues, and
 - 2) where the intersection occurs in a street where there are two or more marked lanes in both of the streets, and/or center dividers or medians.

2. **Residential:** Valve spacing within Low and High-Density Residential Land Use Classifications shall be determined based on the following priority and criteria:

- a. **Pipe Segment Length:** Pipe segments between mainline valves shall be no more than 800 feet and shall meet the population definition for the defined land use types.
 - b. **Population:** The population impacted by a pipe segment removed from service shall not be greater than 80 people for low density residential and 200 people for high density residential.
 - c. **Single Water Sources:** High density developments with only one main domestic water connection and more than 200 people shall have a minimum of a three-way valve assembly installed at the point of connection to the mainline to maintain services during repairs or maintenance to the adjacent water distribution system.
 - d. **Terms:** Terms are defined as follows:
 - i. **Neighborhood Intersection:** A Neighborhood-Intersection is defined as an intersection of pipelines 6-inch diameter and smaller where the intersection occurs in an interior residential street that does not include marked lanes or a center divider or median.
 - ii. **Pipe Segment:** A Pipe Segment is the length of pipe(s) that can be isolated by closure of existing valves or other appurtenances.
 - iii. **Low-Density Residential:** Low Density Residential is defined as less than eight dwelling units per acre as defined by the City of Costa Mesa's General Zoning Plan.
 - iv. **High-Density Residential:** Medium Density and High Density are characterized as High Density under this policy and as such, High Density Residential is defined as up to 20 dwelling units per acre as defined by the City of Costa Mesa's General Zoning Plan.
3. **Commercial:** Valve spacing within Commercial Land Use Classifications shall be determined based on the following priority and criteria:
- a. **Pipe Segment Lengths:** Pipe segments between main-line valves shall be no more than 500 feet.
 - b. **Terms:** Terms are defined as follows:
 - i. **Commercial:** Commercial Density includes businesses, light industrial, higher education, institutional, government, and other classifications as defined by the City of Costa Mesa's General Zoning Plan.
4. **Schools:** Valve spacing within School Land Use Classifications shall be determined based on the following priority and criteria:

- a. **Pipe Segment Lengths:** Pipe segments between mainline valves shall be no more than 500 feet.
- b. **Single Water Sources:** All elementary and secondary schools fed by only one main domestic water connection shall have a minimum of a three-way valve assembly installed at the point of connection to the mainline to maintain services during repairs or maintenance to the adjacent water distribution system.
- c. **Terms:** Terms are defined as follows:
 - i. **Schools:** Schools include all private and public primary, middle, and high schools within Mesa Water's service area.

5. Existing Valves

- a. **Non-Essential Valves:** Where valve assets are no longer required based on criteria herein, Mesa Water will evaluate such valve locations to confirm validity. If an existing valve is determined to be non-essential and at the end of its useful life, the valve will be abandoned in accordance with this policy. At the time of abandonment, a new valve will be installed at a location in compliance with this policy.
- b. **Maintenance:** Valve assets that are confirmed to be no longer required based on the criteria herein shall remain part of the ongoing valve exercising and maintenance program until they are deemed to have reached the end of their useful life, at which time they will be removed from the exercising and maintenance program.

6. New Valves

- a. **New Assets:** Existing pipe segments that are not in compliance with the most current version of this Policy and require additional valves, will be modified to meet the most current version of this Policy through pipeline rehabilitation and replacement projects.

7. Abandoned Valves

- a. **Abandonment:** Valves will be opened and abandoned in place. The valve cans will be removed to 30 inches below ground surface. The remaining portions of the valve cans will be slurry filled and the surface repaired.
- b. **Monitoring:** Abandoned valves will be monitored through the leak detection program every 5 years once the abandoned valve body age reaches 75 years. Valve bodies found to be leaking prior to pipeline replacement or rehabilitation will be removed from the system.

- c. **Removal:** Abandoned valves will be removed through pipeline rehabilitation and replacement projects. Valve bodies found to be leaking prior to pipeline replacement or rehabilitation will be removed from the system.

8. Policy Evaluation

- a. **Existing Assets:** All existing mainline valve assets shall be evaluated every five years to determine compliance with the policy; or
- b. **New Developments:** All new high-density and commercial developments shall be evaluated for the possible addition of valves based upon the criteria herein.
- c. **Land Use Classifications:** If a change in land use classification is made, the more stringent requirements of this policy shall apply.
- d. **Engineering & Operational Judgement:** Valves may be added or removed as necessary where there is operational benefit outside of the aforementioned criteria as directed by the District Engineer or Operations Manager. Such additions shall be reported to the Board during the next policy evaluation and more often as the General Manager may see fit.

MESA WATER CIPR DESIGN SERVICES

Date: August 19, 2020

Project No.: 12028A.10 Task 1

Mesa Water District

Subject: Valve Spacing GIS Methodology White Paper

Introduction

As requested by Mesa Water District (Mesa Water), Carollo Engineers, Inc. (Carollo) developed a valve spacing Policy for the replacement, addition, or abandonment of system valves. Using a GIS-based evaluation of population, land use, and existing facilities, this white paper outlines the methodology used in developing the policy.

Population and Land Use

Land use zoning data was obtained from the Southern California Association of Governments (SCAG) and compared to the most recent City of Costa Mesa and City of Newport Beach's zoning maps. The detailed land use map was then simplified to four zoning categories, as shown in Figure 1:

- **High-Density Residential (HDR)** includes zoning codes PDR-HD (Planned Development Residential – High Density), R3 (Multiple Family Residential), R2-HD (Multiple-Family Residential High Density), PDR-MD (Planned Development Residential – Medium Density), R2-MD (Multiple-Family Residential Medium Density), PDR-NCM (Planned Development Residential – North Costa Mesa), PC-16 (Planned Community – Newport Beach), RM (Multi-Unit Residential – Newport Beach)
- **Low-Density Residential (LDR)** includes R1 (Single-Family Residential) and PDR-LD (Planned Development Residential – Low Density)
- **Commercial** includes C1 (Local Business), C2 (General Business), C1-S (Shopping Center), TC (Town Center), CL (Commercial Limited), PDC (Planned Development Commercial), PDI (Planned Development Industrial), MG (General Industrial), MP (Industrial Park), and IG (Industrial – Newport Beach), Public Facilities, and higher education (Vanguard University and Orange Coast College).
- **Schools** includes pre-school and K-12 based on the I&R (Institutional and Recreation) land use designation and cross-checked against the Newport-Mesa school directory.

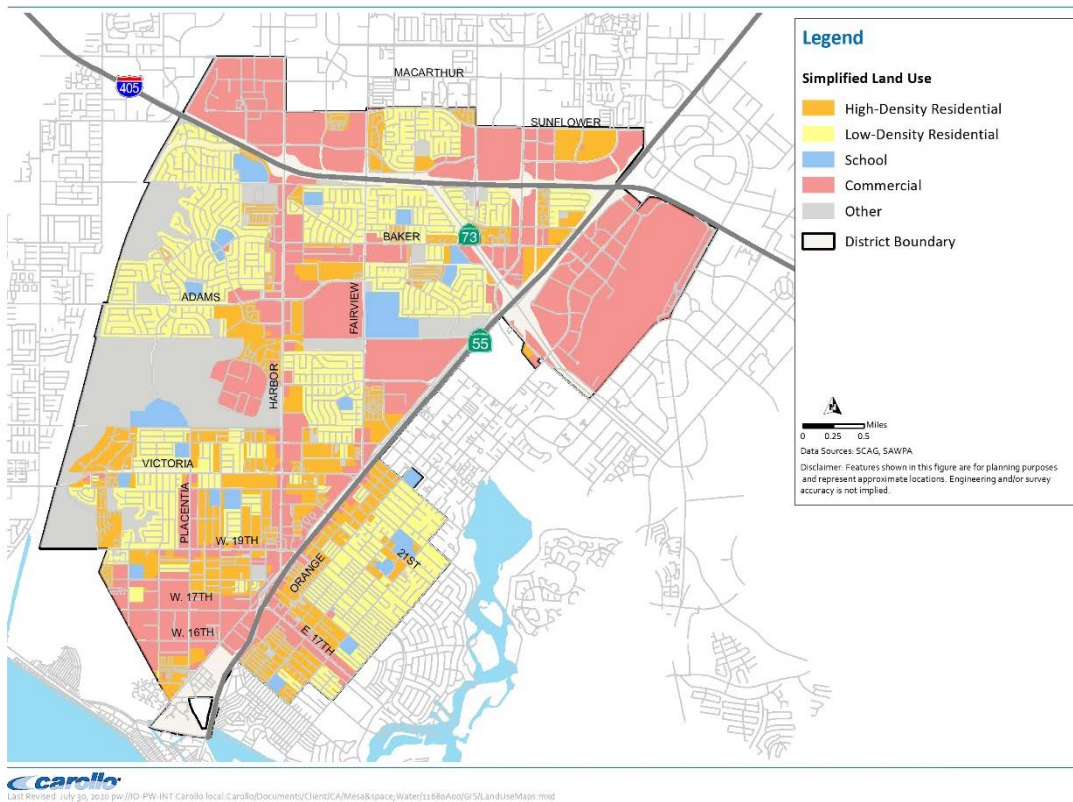


Figure 1 – Mesa Water District Simplified Land Use Map

Population Estimation

Population data was obtained from the US Census American Community Survey’s 2018 population estimates at the Census block group level. Note that although the census block is the smallest geography, mid-decade population estimates were not available at that level. The population was then disaggregated to the parcel level for residential land use areas.

For each residential land use type, the dwelling units per acre were obtained from the City of Costa Mesa’s planning department and multiplied by the total number of acres for each detailed land use type within each block group. The sum of the dwelling units per zoning type was then multiplied by the number of people per household. An average of 2.71 people per household was used per the Census’s calculations for the City of Costa Mesa. Next, the percentage of each residential zoning area was calculated for each block group. That percentage was then multiplied by the number of parcels for each zoning type to determine the number of people per parcel based on the zoning type within each block group. Using this method the number of people per parcel could be disaggregated based on the block group population estimates.

For commercial and school land use parcels the number of service connections served as a proxy for the number of businesses. If a parcel did not have a service connection, one service connection per parcel was assumed.

Counts of residential populations and service connections were then assigned to the nearest active, Mesa Water-owned distribution or transmission mainline pipeline via the connection lateral. Within Mesa Water, there are several major streets with laterals that cross over other mainlines. The population and/or service connections were assigned to the correct mainline pipeline by performing a multi-tiered join by first joining the parcels to the laterals and then joining the laterals to the mainline pipelines. The result is a pipeline

shapefile that contains the sum of HDR and LDR residents and commercial and school service connections for each pipeline.

Valve Spacing Analysis

The InfoMaster Valve Criticality Tool (VCM) from Innovzye, is a GIS-based tool that calculates pounded (isolated) areas to identify the valves and pipe segments that would need to be isolated should a pipe fail. Carollo used the VCM tool to determine the location and total length of the isolatable pipe segments for each of the four simplified land use categories.

Mesa Water maintains approximately 5,400 system valves. For this analysis, approximately 4,400 divisional valves were used. Divisional valves are active mainline valves that do not include hydrant, service lateral, or blow off valves.

Using the pipe segments for each land use category, a valve spacing policy was developed based on AWWA standards and the average number of residents and service connections per pipe segment. Below are the recommendations set forth in the policy for distribution pipe segments:

- HDR land use, a maximum of 200 or fewer residents per 800 feet or less of pipe segment
- LDR land use, a maximum of 80 or fewer residents per 800 feet or less of pipe segment
- Commercial, a maximum of 500 feet or less of pipe segment
- Schools, a maximum of 500 feet of pipe segment

Residents, commercial and school service connections located along transmission mains (defined as 16 inches or greater) were excluded from the analysis.

In addition to the pipe segment length and population/ service connection criteria, valve spacing in relation to major cross and "T" intersections were analyzed and defined as follows:

- Cross Intersection: A Cross-Intersection is defined as the intersection of two pipelines 8-inch diameter and greater, where:
 - o after intersecting, the pipes continue in separate directions, and
 - o where the intersection occurs in a street where there are two or more marked lanes in both of the streets, and/or center dividers or medians.
- T-Intersection: A T-Intersection is defined as the intersection of two pipelines 8-inch diameter and greater, where:
 - o one pipe dead ends into the other and the second continues, and
 - o where the intersection occurs in a street where there are two or more marked lanes in both of the streets, and/or center dividers or medians.
- Neighborhood Intersection: A Neighborhood-Intersection is defined as an intersection of pipelines 6-inch diameter and smaller where the intersection occurs in an interior residential street that does not include marked lanes or a center divider or median.

The road centerline GIS layer was obtained from the Orange County Public Works Department. Major roads are defined as street codes 2 or 3 and represent major arterials. Marked lanes are not listed in the GIS and were determined from aerial imagery inspection. Recommendations for additional isolation valves in major intersections were based on a general spacing of 50 ft from the intersection. In some instances, isolation valves in major roads exceed the 50ft buffer in which case, the nearest isolation valve to the street intersection was reviewed.

In addition, an engineering-level review was performed to confirm valves recommended for removal do not negatively impact the District's well-looped system.

Valve Spacing Analysis Results

The District maintains a list of valves identified for replacement through Mesa Water’s on-going valve exercising and maintenance program. As of August 10, 2020, this list includes 168 divisional valves that still need to be replaced. These valves are shown on Figure 2. There are currently three categories of valves as indicated in the figure.

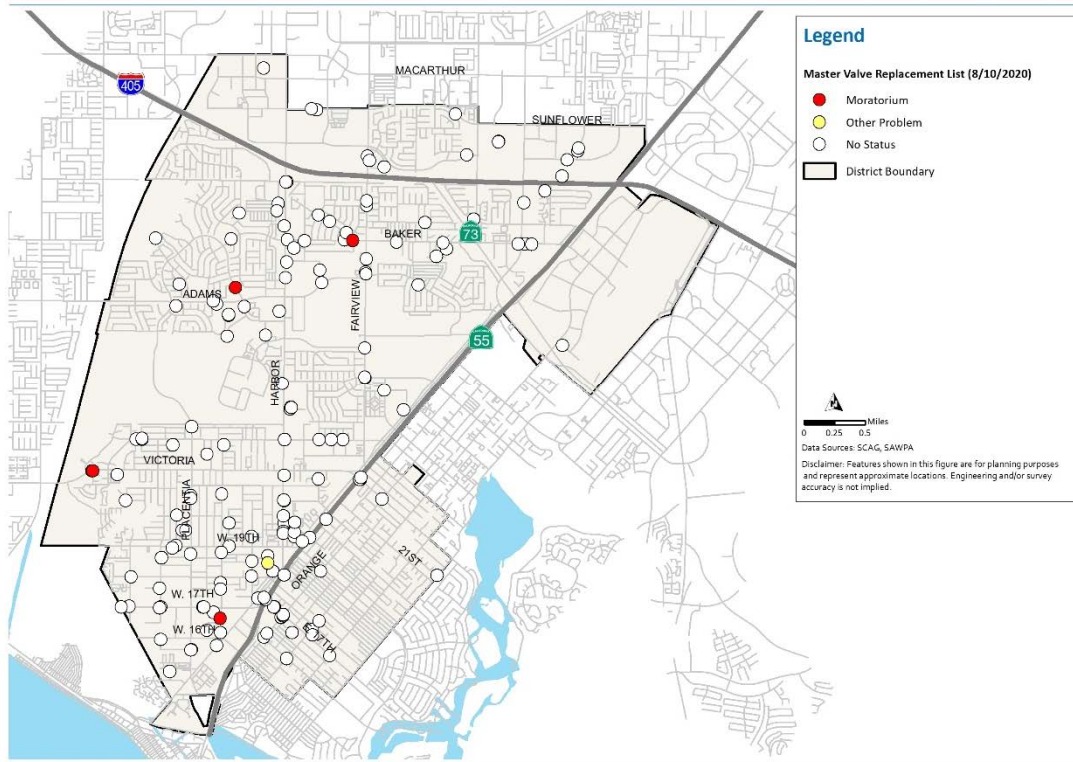


Figure 2 – Mesa Water’s Master Valve Replacement List

Using the Valve Spacing Policy criteria described above, a list of 511 valves were identified for potential removal from the system. Valves recommended for removal (or to be abandoned-in-place) were cross checked with the District’s list of 168 mainline valves on the replacement list (Figure 2). Twenty-three valves from Mesa Water’s master replacement list matched those identified by Carollo and could be ear-marked for potential removal from the list. The majority would still need to be replaced; total of 145. Figure 3, shows valves recommended for removal including the 23 valves that match valves listed in Mesa Water’s valve replacement list, indicated by the blue triangles.

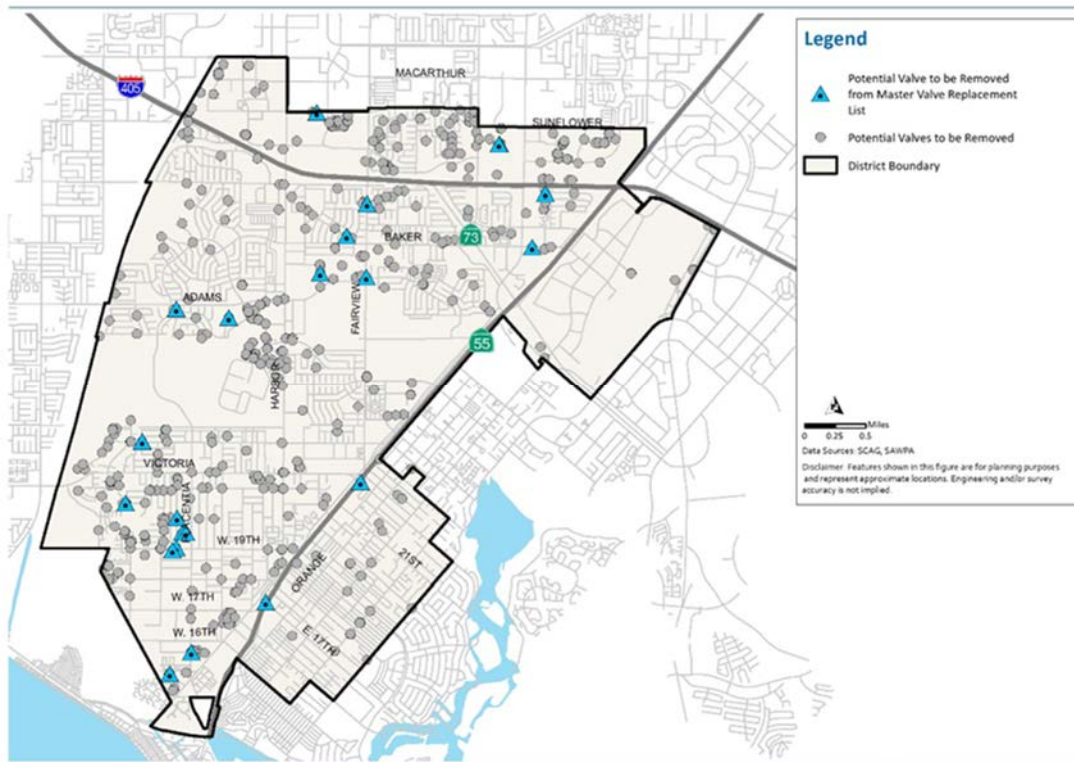


Figure 3 – Potential Valves for Removal/Abandonment Based on Valve Spacing Policy (23 of the 511 valves recommended for removal are on the District’s valve replacement list.)

The Policy also resulted in the need for some new valves. A total of 422 new isolation valves are recommended to meet the residential and service connection valve spacing criteria, as shown in Figure 4.

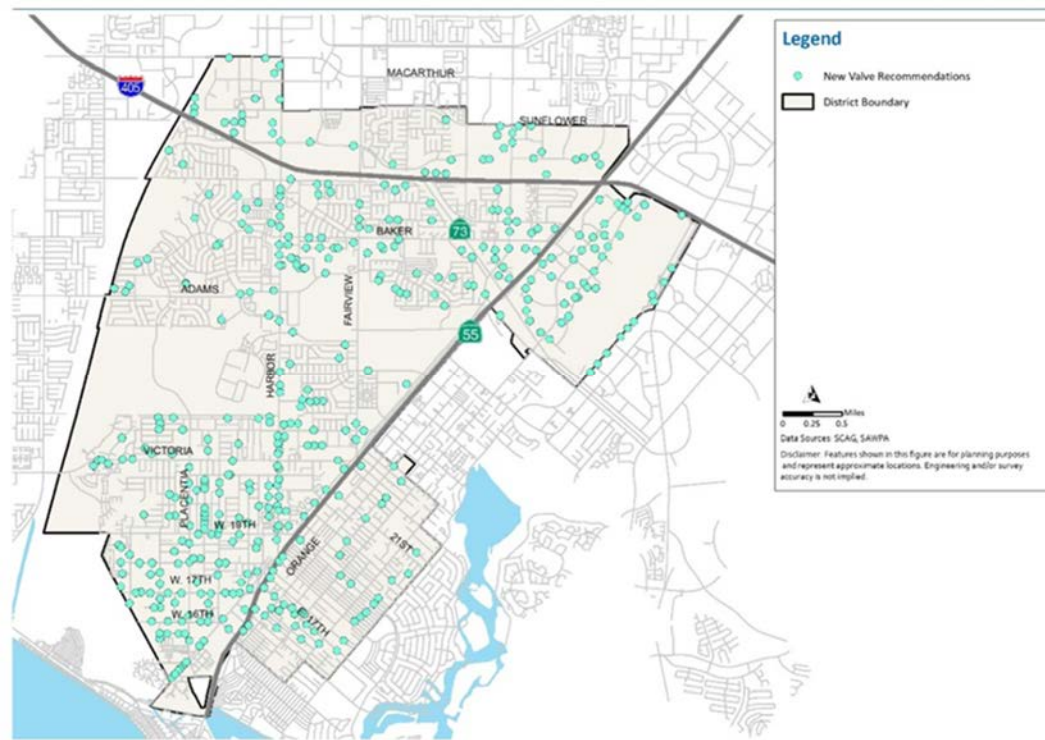


Figure 4 – Potential Additional Valves based on Valve Spacing Policy (422 valves)

Cost Impacts

The expected cost for replacement of valves was obtained from Mesa Water based on their experience. Two categories of valve replacement cost were assumed: "simple" replacement and "complex" replacement. Simple replacement refers to valves to be replaced in neighborhood street areas, while "complex" replacement refers to replacing valves in main roads with multiple lanes. The assumed total cost for the two categories was \$6,500 and \$20,000 for "simple" and "complex", respectively.

Table 1 shows a summary of the number of valves and cost impacts (savings) for valves that would not require replacement and can be removed from Mesa Water's valve exercising and maintenance program. These would represent a savings to Mesa Water.

As shown, the anticipated savings to Mesa Water would be about \$4.3 million.

Table 1: Summary of Cost Impacts

Description	Simple Replacement	Complex Replacement	Total/Savings / (Cost)
Valves Removed/Abandoned from System			
Number of Valves	435	76	511
Savings for Valves Removed/Abandoned from the System	\$2,827,500	\$1,520,000	\$4,347,500

Per the Valve Spacing Policy, existing valves that are no longer required under this Policy will be maintained until they are determined to be at the end of their useful life. At that time, the valve(s) will be abandoned in place. Existing pipe segments that are not in compliance with the current valve spacing policy and require additional valves will be modified to meet the current valve spacing policy through routine capital improvement and pipeline rehabilitation and replacement projects. This approach will not overburden the valve replacement CIP.

List of Valves with Potential for Removal/Abandonment

The attached table lists the 511 valves with potential for removal. Those valves highlighted are the ones that correspond to Mesa Water's valve replacement list.

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**Valves Identified for Removal/Abandonment per Valve Policy
(Total 511)**

FACILITYID	Grid_ID	NUMBER	LOCATION DESCRIPTION	DIAMETER
4500610114	61	114	500 ANTON BLVD	8
4500650063	65	63	475 ANTON	12
4500650067	65	67	ANTON & SAKIOKA	12
4500650117	65	117	N/ 3350 SAKIOKA	12
4500470010	47	10	3462 SANTA CLARA CIR	8
4500470024	47	24	1033 DAMASCUS	6
4500470028	47	28	1033 DAMASCUS	6
4500470021	47	21	WIMBLEDON & KINGSTON	8
4500480075	48	75	1111 SOUTH COAST DR	8
4500480076	48	76	1111 SOUTH COAST DR	4
4500480077	48	77	1111 SOUTH COAST DR	4
4500480078	48	78	1111 SOUTH COAST DR	4
4500480061	48	61	1111 SOUTH COAST DR	4
4500480135	48	135	1111 SOUTH COAST DR	4
4500480136	48	136	1111 SOUTH COAST DR	4
4500480121	48	121	WIMBLEDON & DANIELLE	8
4500480093	48	93	WIMBLEDON & SALINAS	8
4500480085	48	85	WIMBLEDON & SALINAS	8
4500480095	48	95	3401 SUMMERSET	8
4500480097	48	97	WIMBLEDON & SUMMERSET	8
4500470015	47	15	3448 KINGS CT	8
4500480159	48	159	1127 BUCKINGHAM DR	8
4500480160	48	160	1114 BUCKINGHAM DR	8
4500480012	48	12	1108 BUCKINGHAM	8
4500480161	48	161	1108 BUCKINGHAM	8
4500480016	48	16	POPPY & GERANIUM	8
4500490036	49	36	3100 MC KINLEY	6
4500490002	49	2	CONCORD & PIERCE	8
4500490007	49	7	3140 COOLIDGE	8
4500490013	49	13	3124 ROOSEVELT	6
4500490091	49	91	3124 TAFT	6
4500490025	49	25	1164 BOISE	8
4500490047	49	47	VAN BUREN & AUSTIN	6
4500480138	48	138	1111 SOUTH COAST DR	4
4500480024	48	24	1111 SOUTH COAST DR	4
4500490043	49	43	BRAY & MC CORMACK	8
4500490027	49	27	BRAY & MC CORMACK	6
4500490028	49	28	MC CORMACK & FAIRVIEW	8
4500550002	55	2	FUCHSIA & AZALEA	8
4500550049	55	49	TIMBER LAKE & DEEP CREEK	6
4500550029	55	29	TIMBER LAKE & DEEP CREEK	8
4500550008	55	8	VILLAGE CREEK & TIMBER LAKE	6
4500550046	55	46	MEADOW BROOK & VILLAGE CREEK	8
4500550030	55	30	BEAR CREEK & MEADOWBROOK	8
4500550033	55	33	MEADOW BROOK & DEEP CREEK	8
4500550035	55	35	HOLLOWBROOK	8

4500550037	55	37	941 AZALEA DR	6
4500560052	56	52	977 BEGONIA	8
4500560047	56	47	3400 LANTANA	8
4500560110	56	110	958 DAHLIA	8
4500560089	56	89	949 DAHLIA	6
4500560090	56	90	924 DAHLIA	6
4500560065	56	65	948 CARNATION	8
4500560084	56	84	3383 LARKSPUR	6
4500560063	56	63	3367 LARKSPUR	6
4500560039	56	39	BEAR S/O SUNFLOWER	6
4500560040	56	40	3333 BEAR ST	8
4500560081	56	81	901 SO COAST DR BLDG F	8
4500560088	56	88	952 DAHLIA	8
4500560005	56	5	901 SO COAST DR BLDG B	6
4500570067	57	67	METRO POINTE BUILDING F	8
4500570021	57	21	883 PROSPECT	8
4500570033	57	33	885 LIARD	6
4500610171	61	171	580 ANTON	8
4500610138	61	138	580 ANTON BLVD	8
4500610117	61	117	600 TOWN CENTER DR	8
4500610088	61	88	3350 AVE OF THE ARTS	8
4500610089	61	89	3350 AVE OF THE ARTS	8
4500610149	61	149	3400 SAKIOKA	8
4500610151	61	151	3400 SAKIOKA	8
4500610039	61	39	ANTON BLVD & PARK CENTER	12
4500550016	55	16	SUNFLOWER W/ BRISTOL	8
4500560008	56	8	3333 BRISTOL	8
4500550062	55	62	SUNFLOWER W/ BRISTOL	8
4500560031	56	31	SOUTH COAST PLAZA	12
4500560010	56	10	SOUTH COAST PLAZA	12
4500560011	56	11	3333 BRISTOL ST	12
4500610040	61	40	580 ANTON BLVD	6
4500620037	62	37	621 DANUBE & RHINE	6
4500620038	62	38	RHINE & DANUBE	6
4500620025	62	25	WHITNEY LANE	6
4500620041	62	41	WHITNEY & LASSEN LANE	8
4500620042	62	42	LASSEN LANE & WHITNEY	6
4500620052	62	52	665 ANTON BLVD	12
4500620053	62	53	318 PARK CENTER DR	12
4500620021	62	21	3070 BRISTOL ST	8
4500560157	56	157	3333 BRISTOL	6
4500610139	61	139	580 ANTON	8
4500620004	62	4	3201 AVE OF THE ARTS	12
4500560020	56	20	3333 BRISTOL ST	10
4500560060	56	60	3333 BRISTOL ST	12
4500480037	48	37	1101 SALINAS AVE	8
4500480177	48	177	3301 FAIRVIEW	8

4500620153	62	153	535 ANTON	12
4500620130	62	130	587 ANTON	12
4500620014	62	14	546 PIERPOINT DR	6
4500620131	62	131	534 TRAVERSE	6
4500290114	29	114	PONDEROSA @ ANDROS	6
4500290115	29	115	ANDROS @ PONDEROSA	8
4500290021	29	21	HARBOR & ADAMS	12
4500290056	29	56	1555 ADAMS	4
4500290012	29	12	1565 ADAMS AVE	8
4500290013	29	13	1565 ADAMS AVE	8
4500290002	29	2	1545 ADAMS	6
4500290007	29	7	1570 AMBERLEAF	8
4500290058	29	58	1570 AMBERLEAF	8
4500400082	40	82	WATSON & LOREN	8
4500400088	40	88	WATSON & DONNYBROOK	6
4500400105	40	105	1256 WATSON	4
4500400061	40	61	COLLEGE & GALWAY	4
4500400129	40	129	1304 LOGAN AVE	6
4500400130	40	130	1304 LOGAN AVE	6
4500410038	41	38	1300 ADAMS	6
4500410013	41	13	1370 ADAMS AVE	12
4500410044	41	44	2855 PINECREEK	8
4500410054	41	54	1300 ADAMS ON PINECREEK	6
4500410055	41	55	2855 PINECREEK	8
4500400072	40	72	1300 ADAMS REAR OF	10
4500410004	41	4	1215 CITRUS PL	8
4500410011	41	11	1215 CITRUS PL	8
4500400118	40	118	VILLAGE WAY & PINECREEK	8
4500400128	40	128	VILLAGE WAY & PINECREEK	10
4500500092	50	92	1138 DORSET	6
4500500077	50	77	1127 BAKER	6
4500500076	50	76	1127 BAKER	6
4500400045	40	45	2959 FAIRVIEW	8
4500400046	40	46	2959 FAIRVIEW	8
4500500109	50	109	2949 FAIRVIEW RD	6
4500500064	50	64	BAKER ST & COOLIDGE AVE	6
4500850002	85	2	366 PAULARINO AVE	8
4500850003	85	3	PAULARINO GATE IMPROVEMENT	8
4500510059	51	59	2879 MENDOZA	12
4500510061	51	61	1010 VALENCIA	6
4500510076	51	76	SALVADOR & CORONA	6
4500500015	50	15	1106 MISSION	6
4500510064	51	64	FAIRVIEW & EL CAMINO	10
4500510092	51	92	2806 CITRUS PL	8
4500590073	59	73	2726 DRAKE AVE	12
4500590046	59	46	2830 LORETO	6
4500590042	59	42	VELASCO & SANTIAGO	6

4500590078	59	78	954 JUNIPERO DR	6
4500500152	50	152	998 MISSION	8
4500630043	63	43	735 PAULARINO AVE	8
4500580162	58	162	KITTENDALE BAY	8
4500630112	63	112	655 BAKER ST	10
4500630132	63	132	635 BAKER	6
4500630083	63	83	635 BAKER	6
4500630114	63	114	555 PAULARINO & BAKER	8
4500830005	83	5	O.C. AIRPORT	12
4500830001	83	1	O.C. AIRPORT	12
4500830003	83	3	O.C. AIRPORT	12
4500580006	58	6	801 PAULARINO	8
4500580137	58	137	HYDE & LOMBARD	6
4500580139	58	139	922 LOMBARD	6
4500580140	58	140	POWELL & LOMBARD	6
4500580107	58	107	914 VAN NESS	6
4500580083	58	83	RANDOLPH AVE	8
4500580118	58	118	POWELL & LOMBARD	6
4500030015	3	15	2034 BALTRA PL	6
4500030019	3	19	2812 SOUTH CAPELLA CT	6
4500140062	14	62	3061 CLUB HOUSE CIR	6
4500140010	14	10	JAVA @ TAHITI DR	6
4500140077	14	77	MESA VERDE & CAPRI LANE	12
4500140039	14	39	2978 CEYLON DR	6
4500140042	14	42	3046 CAPRI LANE	6
4500150097	15	97	1814 PITCARIN DR	6
4500150006	15	6	2782 LONGWOOD CT	8
4500270073	27	73	3088 SAMOA PL	6
4500430012	43	12	WESTBROOK & FORDHAM	6
4500530051	53	51	131 CLEARBROOK LN	6
4500530017	53	17	2525 NEWPORT BLVD	10
4500530020	53	20	2599 NEWPORT VANGUARD UNIVERSITY	6
4500590028	59	28	2701 SAN LUCAS	6
4500710018	71	18	270 S.E. BRISTOL	6
4500710062	71	62	BRISTOL ST	12
4500030001	3	1	ALBATROSS & PELICAN	6
4500840027	84	27	AIRPORT WAY JOHN WAYNE AIRPORT	12
4500840024	84	24	AIRPORT WAY JOHN WAYNE AIRPORT	6
4500040006	4	6	2082 MANDARIN DR	6
4500040001	4	1	OCFCD	6
4500040033	4	33	2010 SWAN DR	8
4500160065	16	65	1831 TANAGER	8
4500160047	16	47	157' W/CL ORIOLE ON TANAGEL	8
4500160048	16	48	1772 ORIOLE	8
4500160050	16	50	1806 ORIOLE DR	6
4500160011	16	11	1701 GOLF COURSE RD	8
4500150085	15	85	2754 LONGWOOD CT	8

4500150088	15	88	2791 PLACENTIA AVE	8
4500300050	30	50	HIBISCUS & AMBERLEAF	8
4500300122	30	122	HIBISCUS & AMERLEAF	8
4500300133	30	133	AMBERLEAF & ASHWOOD	8
4500300134	30	134	AMBERLEAF & ASHWOOD	8
4500290079	29	79	BOUGAINVILLE & BRIAR ROSE	8
4500290137	29	137	BRIAR ROSE & AMBERLEAF	8
4500290139	29	139	BRIAR ROSE & AMBERLEAF	8
4500300055	30	55	2775 MESA VERDE DR	6
4500300066	30	66	SANTA BARBARA & RINCAID DR	6
4500300068	30	68	SAN CLEMENTE FR	8
4500300095	30	95	HARLA AVE & MESA VERDE	6
4500300059	30	59	SANTA BARBARA & DOUGLAS	8
4500300062	30	62	RINCAID & LUKUP	8
4500300063	30	63	DOUGLAS & MERRIMAC	8
4500300159	30	159	MERRIMAC & DOUGLAS	8
4500300161	30	161	2545 SANTA CATALINA	8
4500300162	30	162	2545 SANTA CATALINA	8
4500300023	30	23	2543 ANACAPA	12
4500300155	30	155	2501 HARBOR	8
4500300025	30	25	2500 HARBOR	12
4500300144	30	144	KINCAID & LUKUP	8
4500300143	30	143	END OF HARLA	8
4500300014	30	14	2534 ANACAPA	8
4500300117	30	117	SANTA CATALINA & ANACAPA	8
4500310023	31	23	2526 SANTA CATALINA DR	8
4500310018	31	18	2500 MARK	8
4500300130	30	130	MERRIMAC & LUKUP	8
4500300131	30	131	MERRIMAC & LUKUP	8
4500300121	30	121	461 SWARTHMORE	6
4500310043	31	43	463 ELMHURST LN	6
4500310039	31	39	1701 GOLF COURSE ON HARBOR	6
4500420028	42	28	392 PRINCETON	8
4500420003	42	3	3333 MERRIMAC	8
4500550007	55	7	LUPINE CIR & GOLDENROD	6
4500090111	9	111	CATAMARAN CT & NANTUCKET	6
4500090023	9	23	1065 SPINNAKER RUN	8
4500090013	9	13	1065 SPINNAKER RUN	8
4500090032	9	32	SPINNAKER & BOWSPRITE LN	6
4500090033	9	33	PENINSULA PL & WEST 18TH ST	8
4500090053	9	53	CAPETOWN CIR & NANTUCKET	8
4500090031	9	31	18TH & WHITTIER	8
4500090090	9	90	1850 WHITTIER #20	6
4500080017	8	17	ARBOR & WHITTIER	4
4500080036	8	36	1919 REPUBLIC	6
4500080090	8	90	1010 ARBOR ST	4
4500090024	9	24	19TH & WHITTIER	12

4500080041	8	41	1009 ARBOR ST & WHITTIER	6
4500100012	10	12	1750 WHITTIER AVE	6
4500180010	18	10	890 DARRELL	6
4500180018	18	18	726 W WILSON ST	8
4500180040	18	40	726 WILSON	12
4500180068	18	68	878 W WILSON	6
4500190001	19	1	2130 FEDERAL AVE	6
4500190002	19	2	PLUM @ FEDERAL	4
4500190103	19	103	PINE & FEDERAL	4
4500190008	19	8	2094 CONTINENTAL AVE	8
4500190010	19	10	890OAK	8
4500190086	19	86	913 OAK	8
4500190084	19	84	924 OAK STREET	8
4500190016	19	16	NATIONAL & VICTORIA	12
4500190061	19	61	2163 NATIONAL	6
4500190128	19	128	2190 NATIONAL	8
4500190063	19	63	SENATE & NATIONAL	6
4500190089	19	89	RALEIGH & VICTORIA	8
4500190065	19	65	WALLACE & HAMILTON	12
4500190068	19	68	WALLACE & HAMILTON	12
4500190111	19	111	PLACENTIA & VICTORIA	8
4500190098	19	98	720 VICTORIA	8
4500320005	32	5	684 DARRELL	6
4500320055	32	55	WILSON ST & HARBOR BLVD	12
4500330001	33	1	2182 POMONA	6
4500330131	33	131	543 VICTORIA	6
4500330088	33	88	HAMILTON & MAPLE	12
4500330017	33	17	530 HAMILTON & MEYER	12
4500330006	33	6	HARBOR & VICTORIA	12
4500330010	33	10	HARBOR & VICTORIA	12
4500330015	33	15	HARBOR & HAMILTON	12
4500330096	33	96	HARBOR & HAMILTON	12
4500320090	32	90	621 WILSON ST	8
4500330037	33	37	POMONA & HAMILTON	12
4500440040	44	40	286 JOANN	6
4500440076	44	76	2314 COLGATE	10
4500440092	44	92	2358 HARBOR	8
4500450029	45	29	408 HAMILTON	12
4500450083	45	83	BISCAYNE & BRIGHTON SPRINGS	6
4500450084	45	84	BISCAYNE & BRIGHTON SPRINGS	6
4500450087	45	87	419 BRYSON SPRINGS	6
4500430088	43	88	208 DARTMOUTH	6
4500540085	54	85	2330 VANGUARD WY	8
4500540087	54	87	2330 VANGUARD WAY	8
4500540088	54	88	2330 VANGUARD WY	8
4500070158	7	158	1175 GLENEAGLES	4
4500070047	7	47	2157 PACIFIC AVE	6

4500450021	45	21	NEWPORT & 22ND ST	6
45054A0083	54A	83	NEWPORT & 23RD ST	8
4500750021	75	21	NONE	12
4500760097	76	97	CECIL PL & CATHERINE PL	6
4500760009	76	9	2240 JEANETTE	6
4500760056	76	56	ASTER & LILAC	6
4500760003	76	3	COTTAGE & WESTMINSTER	6
4500060006	6	6	WILSON & REPUBLIC AVE	6
4500060060	6	60	WILSON & REPUBLIC AVE	8
4500060015	6	15	2277 PACIFIC AVE	6
4500060002	6	2	2295 PACIFIC	6
4500060021	6	21	REAR 2243 PACIFIC	6
4500060075	6	75	2231 PACIFIC AVE	6
4500060030	6	30	WILSON & CANYON	12
4500060067	6	67	WILSON & CANYON DR	12
4500060017	6	17	2350 CANYON DR	6
4500190034	19	34	930 OAK ST	8
4500070017	7	17	PACIFIC AVE	12
4500070021	7	21	1209 LAS ARENAS WAY	6
4500060019	6	19	2210 PACIFIC AVE	6
4500070050	7	50	NONE	6
4500070024	7	24	NONE	6
4500070025	7	25	NONE	6
4500070026	7	26	NONE	6
4500070002	7	2	WESTWARD WY & WESTWARD LN	8
4500080020	8	20	BALBOA & DISCOVERY	12
4500080004	8	4	GROVE PL & STATE AVE	6
4500080005	8	5	1020 GROVE PL & STATE AVE	6
4500080045	8	45	2050 REPUBLIC AVE	6
4500070117	7	117	SEA COVE & STONE BROOK LN	8
4500080051	8	51	1933 REPUBLIC	6
4500080052	8	52	1933 REPUBLIC AVE	6
4500080001	8	1	1935 SUNDANCE LN	8
4500080027	8	27	1935 SUNDANCE LN & SUNDANCE	8
4500080028	8	28	SUNDANCE LN	6
4500080029	8	29	1939 SUNDANCE LN	8
4500080011	8	11	1010 GROVEPL	4
4500080070	8	70	END OF STARBURST COURT	8
4500200103	20	103	1965 PLACENTIA IN YARD	8
45023B0052	23B	52	1433 SUPERIOR	6
45023B0053	23B	53	1421 SUPERIOR AVE	6
4500210052	21	52	867 19TH ST	8
4500210060	21	60	1903 FEDERAL	8
4500210062	21	62	19TH & MONROVIA	8
4500210078	21	78	19TH & FEDERAL	8
4500210132	21	132	19TH & MONROVIA	8
4500200099	20	99	1924 MONROVIA	8

4500200007	20	7	2000 CONTINENTAL ON W. 20TH	6
4500200045	20	45	2000 FEDERAL	6
4500200046	20	46	1990 FEDERAL	6
4500200011	20	11	2000 CONTINENTAL	6
4500200070	20	70	2000 MONROVIA	6
4500200071	20	71	900 W 20TH	4
4500200072	20	72	883 20TH ON MONROVIA	8
4500200001	20	1	1983 MONROVIA	6
4500200075	20	75	1954 MONROVIA AVE	8
4500230046	23	46	BLUE FIN & NAUTICAL MILE	6
4500230085	23	85	BLUE FIN AND NAUTICAL MILE	6
4500230086	23	86	SHELL PRINT CT @ NAUTICAL MILE	6
4500230016	23	16	SHELL PRINT CT @ NAUTICAL MILE	6
4500790002	79	2	WESTMINSTER & SPARKS ST	8
4500950003	95	3	1725 TUSTIN AVE	6
4500950004	95	4	ABBIE WY & IRVINE AVE	6
4500940042	94	42	BROADWAY & TUSTIN	6
4500940022	94	22	TUSTIN & BROADWAY	6
4500940051	94	51	TUSTIN AVE & BROADWAY	10
4500950053	95	53	18TH & TUSTIN	6
4500950034	95	34	TUSTIN AVE & 18TH ST	10
4500940015	94	15	TUSTIN & 19TH	10
4500930010	93	10	IRVINE & 20TH ST	8
4500780089	78	89	SANTA ANA & 19TH ST	10
4500780031	78	31	COSTA MESA & FULLERTON	6
4500770016	77	16	2020 SANTA ANA AVE	6
4500770042	77	42	WESTMINSTER & ESTHER	6
4500770064	77	64	WESTMINSTER & ESTHER	6
4500780092	78	92	IN ALLEY AT 115 FLOWER ST	4
45046A0012	46A	12	1901 NEWPORT BLVD	8
4500450001	45	1	324 GULF STREAM WAY	6
4500460025	46	25	GULF STREAM & CANAL WAY	6
4500350076	35	76	1782 CRESTMONT PL	6
4500790023	79	23	1702 NWPT ON 17TH	12
4500350042	35	42	REAR OF 665 PARK	6
4500350125	35	125	644 SHALIMAR	6
4500350043	35	43	POMONA & W 18TH ST	8
4500220037	22	37	711 W 17TH ST	8
4500210107	21	107	1837 WALLACE	6
4500200104	20	104	1965 PLACENTIA IN YARD	8
4500190119	19	119	2965 PLACENTIA AVE	8
4500200094	20	94	721 20TH ST	6
4500200093	20	93	20TH ST & PALACE AVE	6
4500350029	35	29	18TH & VIOLA PL	6
4500350100	35	100	WEST 18TH ST & ANAHEIM	8
4500350065	35	65	1835 NEWPORT BLVD	6
4500350066	35	66	1835 NEWPORT BLVD	6

4500350033	35	33	1835 HARBOR BLVD & NEWPORT BLVD	10
4500350176	35	176	19TH & HARBOR	6
4500350035	35	35	652 CENTER ST	10
4500340042	34	42	2000 HARBOR BLVD	6
4500230120	23	120	15TH & PLACENTIA	6
4500210081	21	81	SHALIMAR AND PLACENTIA AVE	6
4500220140	22	140	17TH & 1700 PLACENTIA AVE	10
4500080043	8	43	SEA TERRACE & MEADOW VIEW LN	6
4500070138	7	138	1027 WESTWARD WAY	6
4500310002	31	2	NONE	8
4500310004	31	4	NONE	8
4500310044	31	44	NONE	8
4500310045	31	45	NONE	8
4500650157	65	157	NONE	8
4500650159	65	159	NONE	8
4500650160	65	160	NONE	8
4500650166	65	166	NONE	8
4500650167	65	167	NONE	8
4500650168	65	168	NONE	8
4500650173	65	173	NONE	8
4500650174	65	174	NONE	8
4500120036	12	36	1812 ALASKA AVE	6
4500120086	12	86	CALIFORNIA & NEW HAMPSHIRE	12
4500120087	12	87	CALIFORNIA & HAWAII	6
4500130052	13	52	3096 BALI CIR	6
4500130012	13	12	1766 HAITI CIR	6
45011A0009	11A	9	3595 CADILLAC AVE	6
4500130002	13	2	3197 CAPE VERDE PL	6
45011A0023	11A	23	3580 CADILLAC AVE	6
4500110012	11	12	SUBURBIA PARK	8
4500110015	11	15	SUBURBIA PARK	10
4500110017	11	17	3505 SUNFLOWER	8
4500110018	11	18	SUNFLOWER	8
4500110021	11	21	3540 CADILLAC AVE	6
4500110066	11	66	CADILLAC IN COMPLEX BEHIND G1	8
4500110070	11	70	3505 CADILLAC H-4	8
4500060077	6	77	NONE	6
4500060072	6	72	NONE	6
4500060073	6	73	NONE	6
4500270012	27	12	GISLER E OF CINNAMON	12
4500270039	27	39	NONE	12
4500270005	27	5	3146 BARBADOS	6
4500270010	27	10	3129 CINNAMON	8
4500380027	38	27	3330 HARBOR REAR OF	8
4500370056	37	56	3350 CORTE VENOSA	8
4500370024	37	24	3350 CORTE VENOSA	8
4500370025	37	25	VIA TRENTINO & CORTE VENOSA	8

4500370026	37	26	VIA TRENINO & CORTE VENOSA	8
4500370028	37	28	VIA TIVOLI & CORTE VENOSA	8
4500370029	37	29	VIA TIVOLI & CORTE VENOSA	2
4500370039	37	39	VIA MERANO & CORTE VENOSA	8
4500370005	37	5	VIA MERCADO & CORTE VENOSA	8
4500370058	37	58	VIA MERANO & CORTE VENOSA	2
4500370063	37	63	VIA LUCA	8
4500370009	37	9	NONE	8
4500370043	37	43	CORTE ALEMANO	8
4500370044	37	44	VIA FONTENAY & CORTE ALEMANO	8
4500370031	37	31	VIA FONTENAY & CORTE ALEMANO	8
4500370032	37	32	3376 CORTE CASSIS	8
4500370045	37	45	3376 CORTE CASSIS	8
4500370011	37	11	3386 CORTE CASSIS	8
4500370033	37	33	3386 CORTE CASSIS	8
4500370034	37	34	SUSAN @ VIA LUCA	8
4500370036	37	36	1375 SUNFLOWER	12
4500370047	37	47	1301 SUNFLOWER AVE	12
4500260024	26	24	NONE	10
4500260025	26	25	NONE	10
4500260026	26	26	NONE	10
4500260091	26	91	1503 SOUTH COAST DR	8
4500260061	26	61	1515 SOUTH COAST DR	12
4500260069	26	69	1634 IOWA	12
4500260057	26	57	3268 MISSOURI & DAKOTA	6
4500240078	24	78	3585 HARBOR GATEWAY N	8
4500240049	24	49	3585 HARBOR GATEWAY N	8
4500240052	24	52	1695 MAC ARTHUR BLVD	6
4500390032	39	32	COLLEGE & WATSON	6
4500390080	39	80	CHEMIN DE FER & DEAUVILLE	6
4500390089	39	89	1288 LONDONDERRRY	6
4500390093	39	93	1370 WATSON	4
4500390003	39	3	WATSON & SHAMROCK	6
4500250128	25	128	3555 HARBOR GATEWAY SOUTH	6
4500250104	25	104	1580 CORPORATE DR	6
4500470020	47	20	KING ST	8
4500500164	50	164	1175 BAKER ST B	2
4500350028	35	28	HARBOR & 19TH	12
45011A0051	11A	51	3590 CADILLAC AVE	8
4500350129	35	129	19TH & PARK	6
4500530035	53	35	FAIR & FAIRVIEW	12
4500530033	53	33	FAIR & FAIRVIEW	12
4500530089	53	89	FAIR & FAIRVIEW	6
4500510013	51	13	1023 PALMETTO	8
4500510014	51	14	1026 PALMETTO	8
4500510015	51	15	1028 PALMETTO	8
4500940084	94	84		6

4500840008	84	8	JOHN WAYNE AIRPORT	10
4500090007	9	7	1036-1042 W 18TH ST	8
4500090004	9	4	1036-1042 W 18TH ST	8
4500530109	53	109	55 FAIR DR	8
4500850029	85	29	PAULARINO GATE IMPROVEMENT	12
4500330147	33	147	AVERY LANE	8
4500330150	33	150	DONOVAN LANE	8
4500330153	33	153	DONOVAN LANE	8
4500330149	33	149	BELLA COURT	8
4500220162	22	162	<Null>	8
4500360129	36	129	617 W 17TH STREET	8
4500360133	36	133	617 W 17TH STREET	8
4500360136	36	136	617 W 17TH STREET	8
4500360142	36	142	617 W 17TH STREET	8
4500360145	36	145	617 W 17TH STREET	8
4500360147	36	147	617 W 17TH STREET	8
4500360151	36	151	617 W 17TH STREET	8
4500360155	36	155	617 W 17TH STREET	8
4500360157	36	157	617 W 17TH STREET	8
4500230133	23	133	1560 PLACENTIA AVENUE	6
4500230134	23	134	1560 PLACENTIA AVENUE	6
4500230135	23	135	1560 PLACENTIA AVENUE	6
4500230136	23	136	1560 PLACENTIA AVENUE	6
4500230138	23	138	1560 PLACENTIA AVENUE	6
4500230139	23	139	1560 PLACENTIA AVENUE	6
4500360112	36	112	617 W 17TH STREET	8
4500360120	36	120	617 W 17TH STREET	8
4500230145	23	145	1560 PLACENTIA AVENUE	6
4500230148	23	148	1560 PLACENTIA AVENUE	8
4500230150	23	150	1560 PLACENTIA AVENUE	6
4500230151	23	151	1560 PLACENTIA AVENUE	6
4500230152	23	152	1560 PLACENTIA AVENUE	6
4500230153	23	153	1560 PLACENTIA AVENUE	6
4500230155	23	155	1560 PLACENTIA AVENUE	6
4500300173	30	173	2626 HARBOR BLVD	8
4500300171	30	171	2626 HARBOR BLVD	8
4500420060	42	60	2626 HARBOR BLVD	8
4500420059	42	59	2626 HARBOR BLVD	8
4500420058	42	58	MERRIMAC WY	8
4500370006	37	6	1301 SUNFLOWER AVE	12
4500180012	18	12	886 JOANN	8
4500180022	18	22	878 JOANN	8

REPORTS:

7. REPORT OF THE GENERAL MANAGER:
 - September Key Indicators Report
 - Other (no enclosure)

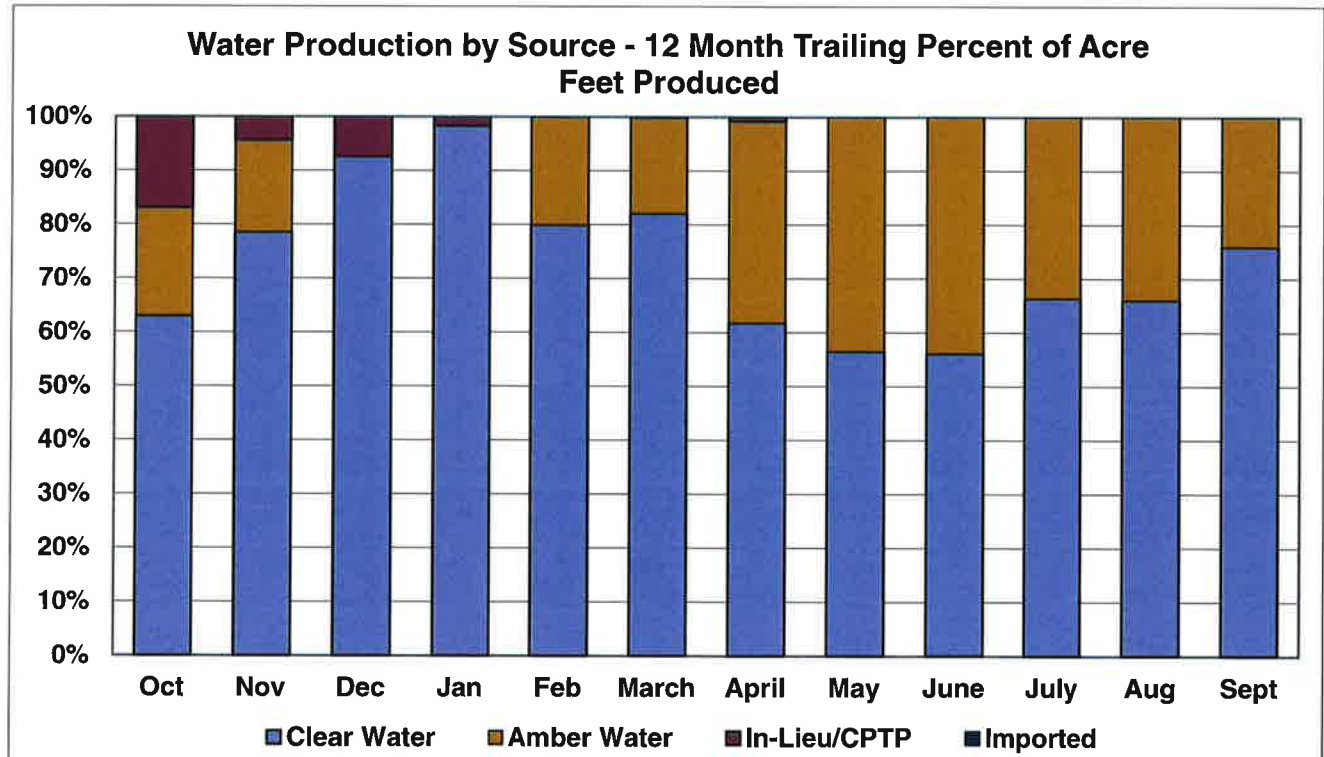
**Monthly Key Indicators Report
For The Month of September 2020**

Goal #1: Provide a safe, abundant, and reliable water supply

FY 2021 Potable Production (Acre Feet)

Water Supply Source	FY 2021 YTD Actual (AF)	FY 2021 YTD Budget (AF)	FY 2021 Annual Budget (AF)
Clear Water	3,326	3,289	12,160
Amber Water (MWRP)	1,480	1,330	3,636
Imported	0	0	0
Basin Management Water	0	0	0
Total Production	4,806	4,619	15,796

YTD actual water production (AF) through September 30, 2020



**Monthly Key Indicators Report
For The Month of September 2020**

Goal #1: Provide a safe, abundant, and reliable water supply

FY21 System Water Quality – This data reflects samples taken in August

Distribution System:	Average	Range	MCL
Chlorine Residual (mg/L) <i>Compliance</i>	1.58	0.21 – 2.87 Current RAA = 1.75	4 RAA
Coliform Positive % <i>Compliance</i>	0	0	5
Temperature (° F)	79	71 – 86	None

Reservoir I & II:	Average	Range	MCL
Chlorine Residual (mg/L)	0.71	0.26 – 1.22	None
Monochloramine (mg/L)	0.73	0.28 – 1.28	None
Ammonia (mg/L)	0.20	0.07 - 0.37	None
Temperature (° F)	78	74 – 82	None

Wells (Treated):	Average	Range	MCL
Chlorine Residual (mg/L)	2.19	1.78 – 2.50	None
Monochloramine (mg/L)	2.20	1.87 – 2.54	None
Ammonia (mg/L)	0.50	0.36 – 0.63	None
Temperature (° F)	79	75 – 83	None

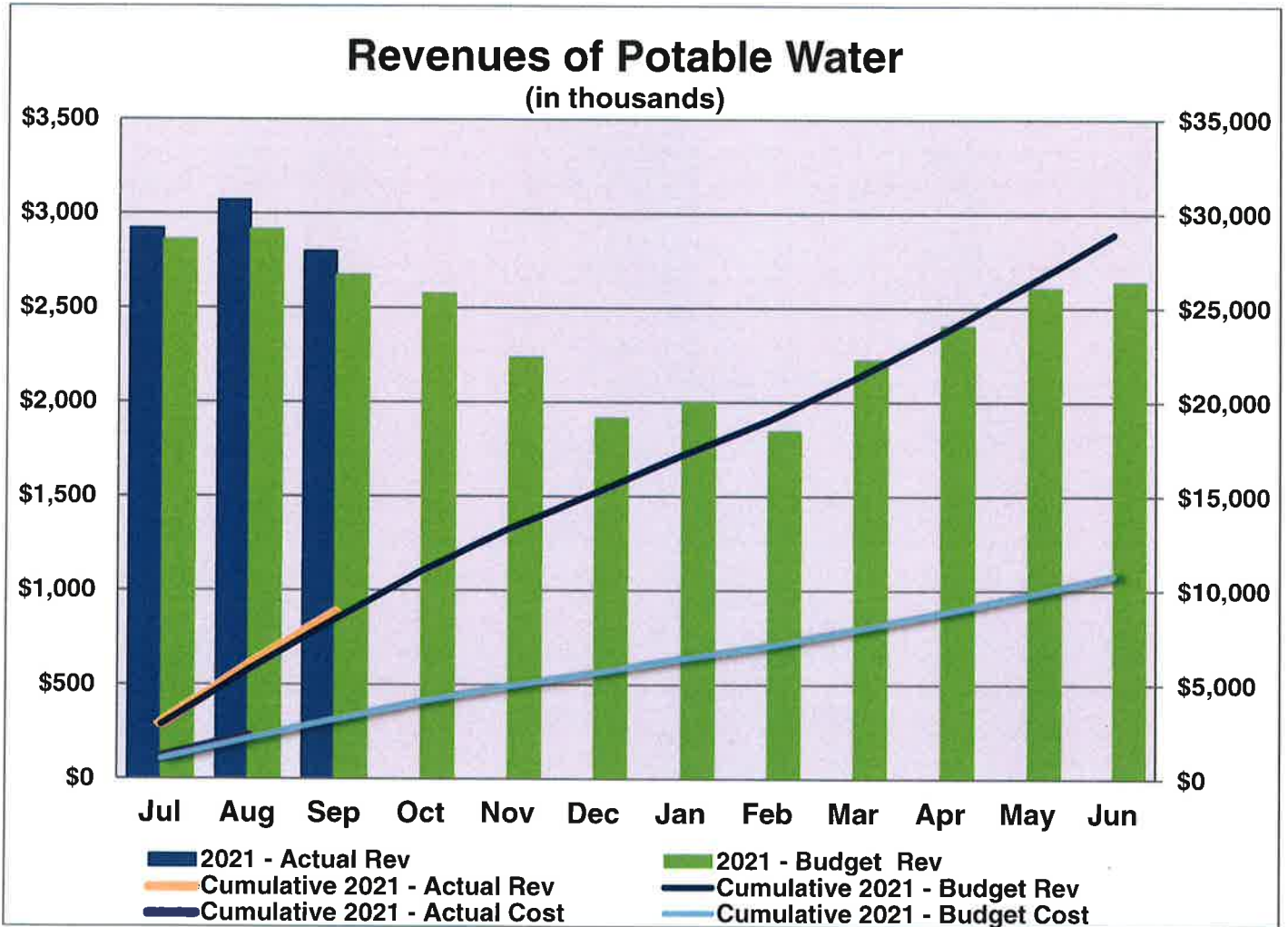
MWRF:	Average	Range	MCL
Chlorine Residual (mg/L)	2.31	1.87 – 2.74	None
Monochloramine (mg/L)	2.39	2.04 – 2.88	None
Ammonia (mg/L)	0.56	0.43 – 0.65	None
Temperature (° F)	83	82 – 85	None
Color (CU) <i>Compliance</i>	ND	ND	15
Odor (TON) <i>Compliance</i>	ND	ND	3

Water Quality Calls/Investigations:

Total Calls	6
Total Investigations (from calls)	5

**Monthly Key Indicators Report
For The Month of September 2020**

Goal #2: Practice perpetual infrastructure renewal and improvement



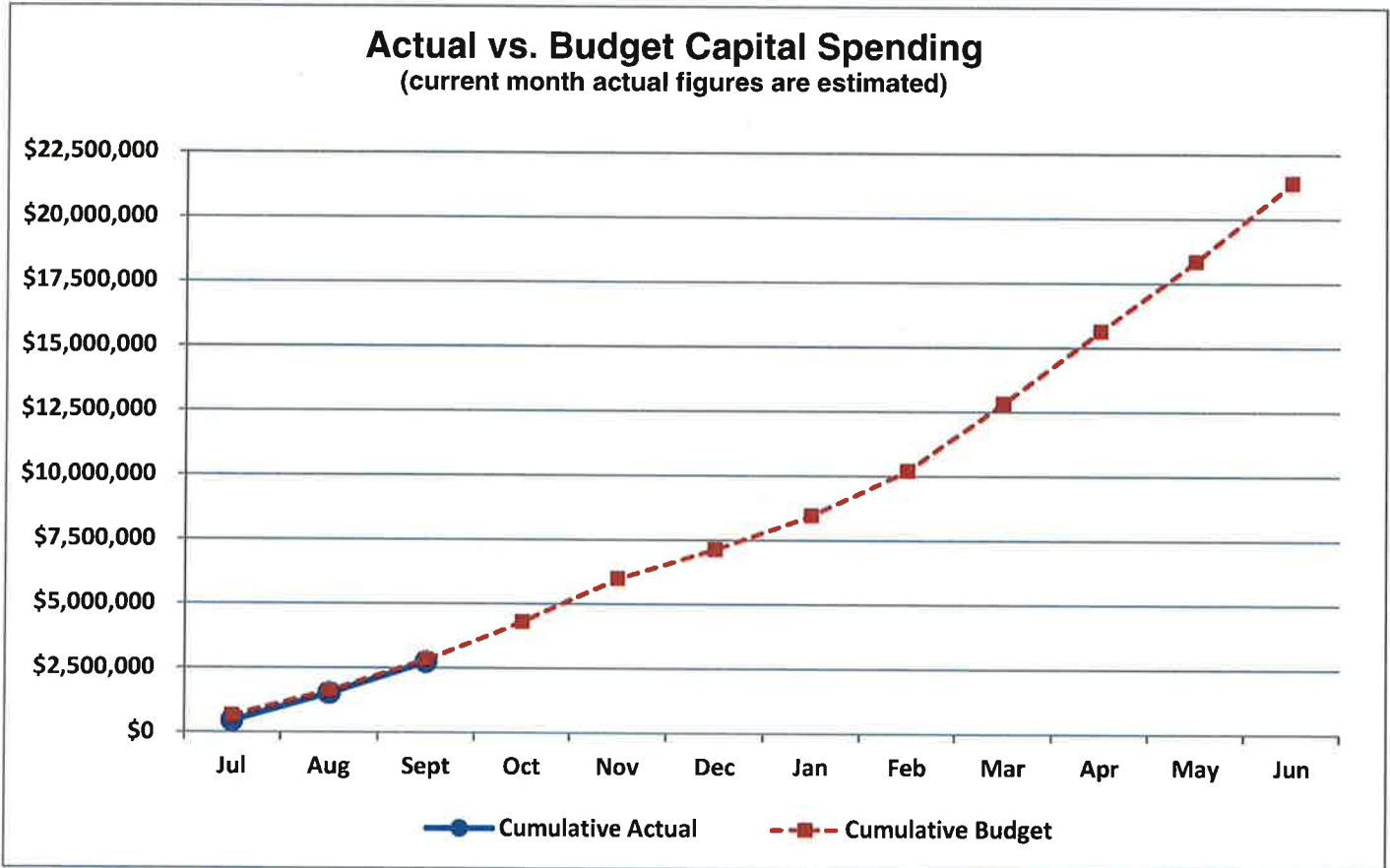
	Actual	Budget	Favorable (Unfavorable)	
			Difference	%
Total YTD Revenue \$	8,786,031	8,449,477	336,554	3.98%

	Actual	Budget	UnFavorable (Favorable)	
			Difference	%
Total YTD Cost \$ *	2,228,302	2,145,864	82,438	3.84%

* YTD Cost is trailing YTD Revenue by one month due to the timing of when costs are available.

Monthly Key Indicators Report
For The Month of September 2020

Goal #3: Be financially responsible and transparent



**Monthly Key Indicators Report
For The Month of September 2020**

Goal #4: Increase public awareness about Mesa Water® and about water

Web Site Information

Web Site Information	August 2020	September 2020
Visits to the web site	7411	11178
Unique visitors (First time to the site)	4931	8870
Average per day	239	373
Average visit length	1 minute, 32 seconds	45 seconds
Page visited most	Home	Home
Second most visited page	Online Bill Pay	Press Releases
Third most visited page	Human Resources	Online Bill Pay
Fourth most visited page	Start or Stop Service	Human Resources
Fifth most visited page	Water Quality Report	Rates and Fees
Most downloaded file	2020 Water Quality Report	Standard Specifications and Standard Drawings for the Construction of Water Facilities
Second most downloaded file	Standard Specifications and Standard Drawings for the Construction of Water Facilities	2020 Water Quality Report
Most active day of the week	Monday	Tuesday
Least active day of the week	Sunday	Saturday

Total visits since July 1, 2002	<u>1,445,651</u>
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Water Vending Machine Information

Vending Machine Location	Vend Measurement	September 2020 Vends	Totals Vends
Mesa Water Office	1 gal	8,655	452,159

Monthly Key Indicators Report
For the Month of September 2020
Goal #5: Attract and retain skilled employees

DEPARTMENT:	FY 2020			COMMENTS:
	BUDGET	FILLED	VACANT	
OFFICE OF THE GENERAL MANAGER:				
General Manager	1.00	1.00	0.00	
Business Administrator	1.00	1.00	0.00	
Subtotal	2.00	2.00	0.00	
ADMINISTRATIVE SERVICES:				
Administrative Services	5.00	5.00	0.00	
Subtotal	5.00	5.00	0.00	
CUSTOMER SERVICES:				
Conservation	1.00	1.00	0.00	
Customer Service	4.00	4.00	0.00	
Subtotal	5.00	5.00	0.00	
ENGINEERING:				
Engineering	5.00	5.00	0.00	
Subtotal	5.00	5.00	0.00	
WATER POLICY:				
Legislative & Governmental Affairs	1.50	1.50		
Subtotal	1.50	1.50	0.00	
FINANCIAL SERVICES:				
Financial Reporting/ Purchasing	4.00	4.00	0.00	
Accounting	1.00	1.00	0.00	
Subtotal	5.00	5.00	0.00	
HUMAN RESOURCES:				
Human Resources	3.00	3.00	0.00	
Subtotal	3.00	3.00	0.00	
PUBLIC AFFAIRS:				
Outreach, Education & Communications	1.50	1.50	0.00	
Subtotal	1.50	1.50	0.00	
WATER OPERATIONS:				
Supervision/Support	7.00	7.00	0.00	
Distribution	10.00	9.00	1.00	Sr. Operator - vacant; recruitment in process
Field Customer Service	4.00	4.00	0.00	
Production	3.00	2.00	1.00	Sr. Operator - vacant; recruitment in process
Water Quality	2.00	2.00	0.00	
Subtotal	26.00	24.00	2.00	
* TOTAL BUDGETED POSITIONS:	54.00	52.00	2.00	

**Monthly Key Indicators Report
For The Month of September 2020**

Goal #6: Provide outstanding customer service

Customer Calls

Call Type	FY21 YTD	Sept 2020	YTD Weekly Average
General Billing Question	358	141	28
Service Requests	414	126	32
High Bill	440	152	34
Payments	690	137	53
Late Fee	57	15	4
Account Maintenance	344	163	26
On-Line Bill Pay	665	244	51
Water Pressure	13	5	1
No Water	92	50	7
Conservation	42	13	3
Water Waste	13	7	1
Other (District info. other utility info. etc.)	916	252	70
Rate Increase	2	2	0
Fluoridation	1	0	0
TOTAL CUSTOMER CALLS	4047	1307	310
AVERAGE ANSWER TIME (Seconds)	56	61	56

Online Bill Pay Customers

Current Customers Enrolled	FY 2021 YTD	September 2020	YTD Weekly Average
13915	840	288	65

REPORTS:

8. DIRECTORS' REPORTS AND COMMENTS



Dedicated to
Satisfying our Community's
Water Needs

MEMORANDUM

TO: Board of Directors
FROM: Phil Lauri, P.E., Assistant General Manager
DATE: October 8, 2020
SUBJECT: Water Consumption for Fiscal Years 2019 & 2020

RECOMMENDATION

This item is provided for information.

STRATEGIC PLAN

- Goal #1: Provide a safe, abundant, and reliable water supply.
- Goal #3: Be financially responsible and transparent.
- Goal #6: Provide outstanding customer service.

PRIOR BOARD ACTION/DISCUSSION

None.

BACKGROUND

Mesa Water District's (Mesa Water®) customers' potable water demands have been approximately 15,000 acre-feet per year since 2015. Consumption is tracked across four main categories:

- 1. Residential
- 2. Commercial
- 3. Industrial/Institution
- 4. Irrigation

Consumer demand for each of the aforementioned categories is typically as follows:

Category	% Demand
Residential	63
Commercial	20
Industrial/Institutional	6
Irrigation	11

In March of 2020, the County of Orange and the State of California issued public health orders intended to slow the spread of COVID-19. These orders led to businesses suspending or modifying operations and people working from home. While the current situation remains fluid, water consumption data and impacts of the stay-at-home orders on Mesa Water's water demands have overall remained fairly constant with variations across each consumer category.

DISCUSSION

Total potable water demands for fiscal years (FY) 2019 and 2020 are summarized in Table 1 below.

Table 1. FY 2019 and FY 2020 Potable Water Demands

Use Category	FY 2019		FY 2020		Difference
	Demand (AF)	% of Total	Demand (AF)	% of Total	
Residential (Single & Multi-Family)	9,399	63	9604	64	1%
Commercial	2,955	20	2,601	17	(3%)
Industrial/Institutional	1,209	8	1,122	7	(1%)
Irrigation	1,450	10	1,651	11	1%
Other ⁽¹⁾	15	-	16	-	-
Total	15,028		14,994		

Notes:

- 1. Includes hydrant/construction and Agriculture customer classes.

As shown in Table 1, the annual demand for each customer class is similar for FY 2019 and FY 2020 with a slight increase for residential consumption and a slight decrease for commercial consumption. However, since stay-at-home orders only impacted the final three months of FY 2020, the annual data does not provide the detail to discern the orders' impacts. To evaluate the full impacts, monthly consumption data from 2019 was compared to the corresponding monthly data for 2020. Graphs for each of the consumer categories are provided as follows:

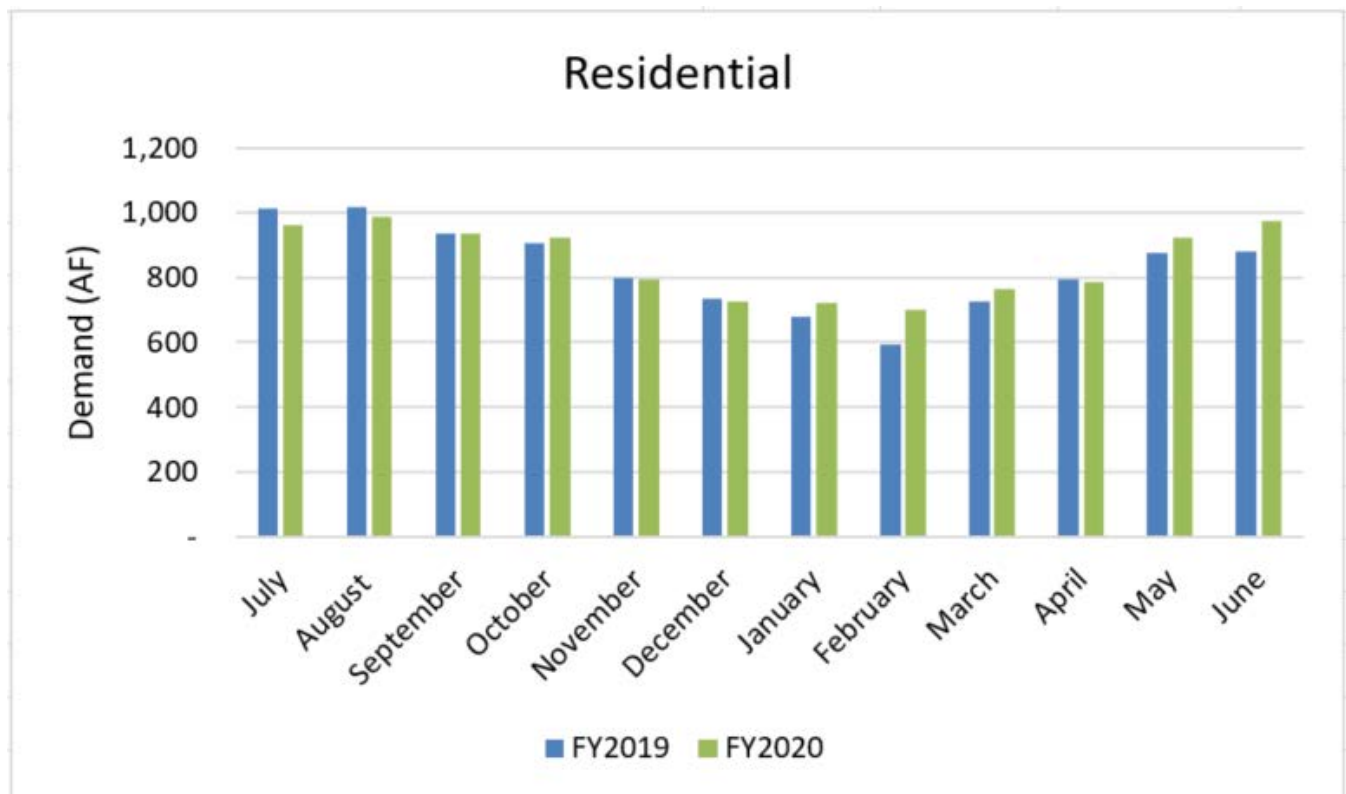


Figure 1 – Residential Monthly Consumption

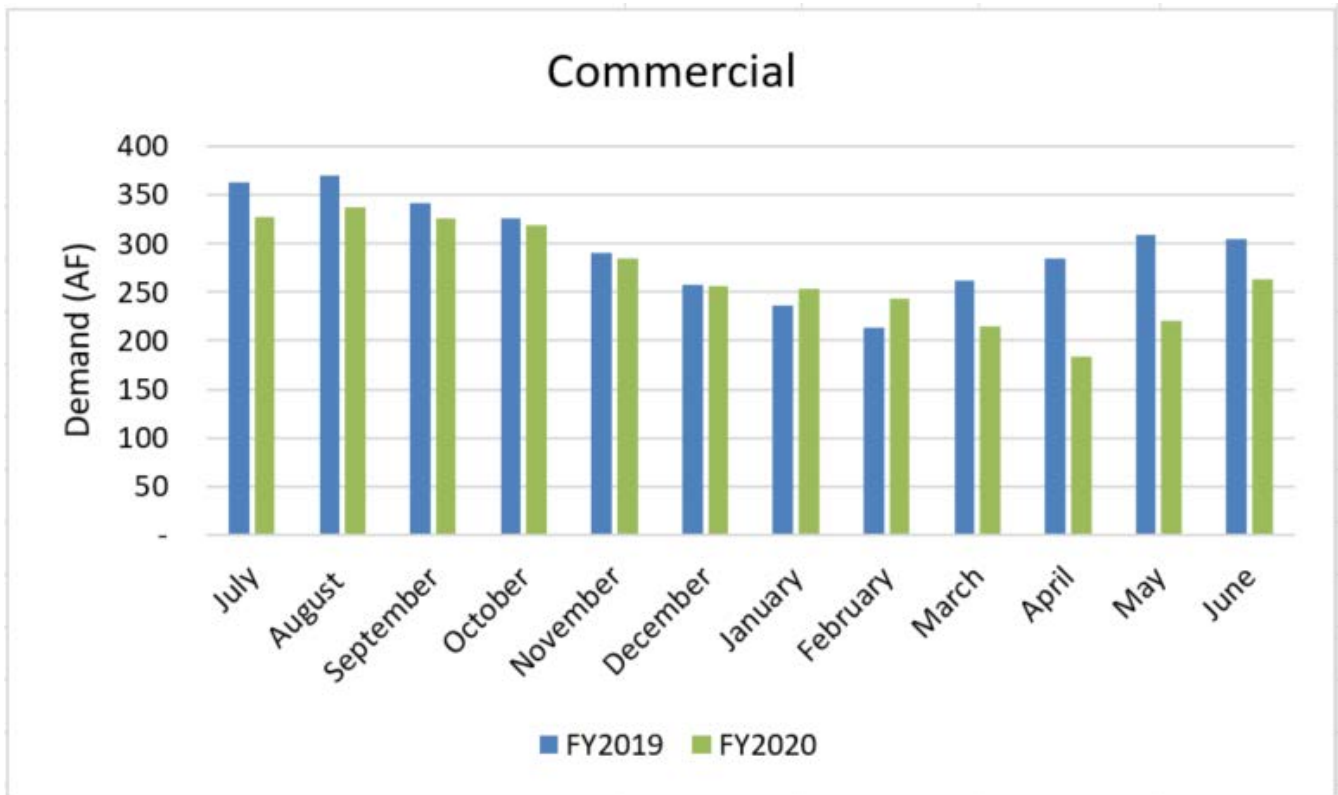


Figure 2 – Commercial Monthly Consumption

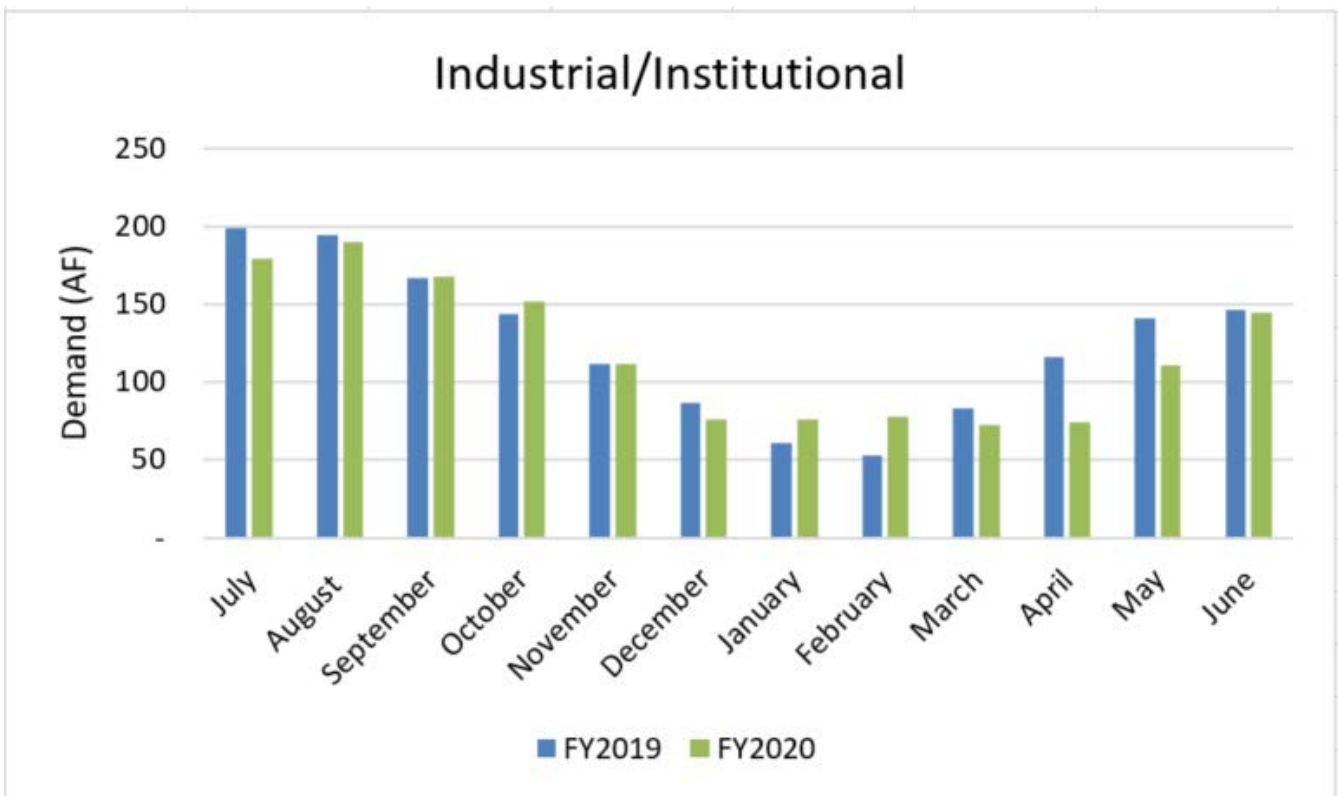


Figure 3 – Industrial/Institutional Monthly Consumption



While there was no substantive change in overall FY 2019 and FY 2020 sales, the specific impacts of stay-at-home orders due to COVID-19 can be seen in the reduction of the commercial and industrial/institutional consumption with a corresponding increase in residential consumption. Residential consumption was 1% higher overall (63% of total consumption in FY 2019 versus 64% of total consumption in FY 2020) and commercial consumption was 3% lower. The greatest monthly residential consumption increase of 12% occurred in June 2020. The greatest monthly commercial and industrial/institutional consumption decreases of 36% and 43%, respectively, occurred in April 2020.

The start of FY 2021 reveals that consumer usage is returning to a more normal pattern as evidenced from Table 2 below:

Table 2. July & August 2019 and 2020 Consumption Comparison

Use Category	July 2019	July 2020	% Diff	August 2019	August 2020	% Diff
Residential (Single & Multi-Family)	960	1,030	7	990	1,040	5
Commercial	330	290	(12)	340	290	(15)
Industrial/Institutional	180	170	(5)	190	160	(16)

FINANCIAL IMPACT

There was no substantive change in overall FY2 019 and FY 2020 sales. However, the overall financial impacts of stay-at-home orders were not evaluated in this memo.

ATTACHMENTS

None.

**DIRECTORS' REPORTS (AB 1234) PER CA GOVERNMENT
CODE SECTION 53232.3 (d)**

In accordance with CA Government Code 53232.3 (d), the following report identifies the meetings for which Mesa Water Directors received expense reimbursement.

Jim Atkinson **Meetings Attended**

Reimbursement Date:	Description, Date
N/A	

Fred R. Bockmiller, P.E. **Meetings Attended**

Reimbursement Date:	Description, Date
9/23/20	Meeting with Mesa Water Director, 9/21/20
9/23/20	Meeting w/ General Manager, 9/23/20

Marice H. DePasquale **Meetings Attended**

Reimbursement Date:	Description, Date
N/A	

Shawn Dewane **Meetings Attended**

Reimbursement Date:	Description, Date
9/23/20	Meeting with Mesa Water Director, 9/21/20

James R. Fisler **Meetings Attended**

Reimbursement Date:	Description, Date
N/A	

There are no support materials for this item.

CLOSED SESSION:

12. CONFERENCE WITH GENERAL LEGAL COUNSEL – EXISTING LITIGATION:
Pursuant to California Government Code Section 54956.9(d)(1)
Reporting Issue – Department of Drinking Water