



*Dedicated to
Satisfying our Community's
Water Needs*

**AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Tuesday, July 16, 2019
1965 Placentia Avenue, Costa Mesa, CA 92627
3:30 p.m. Special Board Meeting**

**ENGINEERING AND OPERATIONS COMMITTEE MEETING
Tuesday, July 16, 2019 at 3:30 p.m.**

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

Items Not on the Agenda: Members of the public are invited to address the Board on 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.

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. Developer Project Status Report
2. Mesa Water and Other Agency Projects Status Report
3. Water Quality Call Report
4. Committee Policy & Resolution Review
5. Water Operations Status Report

ACTION ITEMS:

Items recommended for approval at this meeting may be agendized for approval at a future Board meeting.

None

PRESENTATION AND DISCUSSION ITEMS:

6. Water Quality Update on PFAS

REPORTS:

7. Report of the General Manager
8. Directors' Reports and Comments



INFORMATION ITEMS:

9. Geographic Information System Support Services
10. Zero Usage Accounts

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.

ADJOURNMENT

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2149	1620-1644 Whittier Avenue and 970 16th Street	89 Single Family Homes	Plans received and plan check fees paid 2/2/14. Permit issued on 7/23/15. Pre-con meeting held on 7/27/15. Pipeline installation on 10/21/15. Pressure test and chlorination on 11/5/15. Bac-T testing completed on 11/24/15 and 11/25/15. Waterline tied-in angle-stops locked on 12/14/15. 4-1" meters installed on model homes on 2/25/16. 1-1.5" irrigation meter and 1-1" domestic meter installed and locked on 4/5/16. Inspected rock base on 7/11/16. Installed 7-1" meters on 7/13/16. Flow-thru tested on 8/25/16, 9/8/16. Rock base and meters installed on 11/3/16. Flow-thru check on 12/1/16, 4/5/17. Meters installed on 8/21/17, 10/5/17. Meters installed on 4/25/18. Meters installed 6/28/18 and again on 8/13/18. Contacting site in order to test 2 irrigation backflow devices.
MC 2204	1672 Placentia	31 Single Family Homes	Plans received and plan check fees paid on 8/26/15. Second plan check submitted on 2/11/16 and returned on 2/26/16. Mylars submitted, fees paid, and permit issued on 5/5/16. Tee cut-ins on 6/22/16. Pressure Test and Bac-T test on 7/7/16. Water main turned on 7/21/16. Services installed and locked off on 9/6/16. Meter installation on 10/28/16. Backflows tested on 11/16/16. Backflow tested on 12/9/16. Rock base on 2/1/17. Service placement on 2/16/17. Meters installed on 3/28/17. Backflows tested on 3/30/17. Meters installed and locked off on 2/20/18. Contacting site in order to test remaining backflow devices.
MC 2233	1560 Placentia	81 Single Family Homes	Plans received and plan check fees paid on 1/20/16. Request for additional information requested on 1/28/16. Requested information submitted on 2/24/16. Plan check picked up on 4/18/16. Second plan check submitted on 5/18/16. Mylar drawings and fee payment received on 7/5/16. Permit issued on 7/11/16. Mainline installed on 8/24/16. Hydrant laterals installed on 8/25/16. Services installed on 9/1/16. Mainline installed on 9/20/16. Pressure and Bac-T test on 9/28/16. Laterals installed on 9/29/16 and 10/5/16. Mainline charged on 10/17/16. Angle stop adjusted on 12/6/16. Meter and meter box placement on 1/5/17. Services adjusted to grade on 3/2/17. Meter installation on 5/3/17. Site meeting on 7/26/17. Service placement on 9/6/17. Meter box placement on 2/9/18. Meters installed and locked off on 5/21/18, 6/28/18, 7/13/18, 8/8/18, and again on 10/10/18. Concrete pads placed on 10/24/18 and 10/25/18. Meters installed on 12/4/18, 1/7/19, 1/29/19 and again on 3/21/19. Backflow devices tested on 5/14/19.

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2235	671 W 17th Street	177 Condos	Plans received and plan check fees paid on 1/21/16. Hydraulic model initiated 2/24/16. Second plan check submitted on 3/24/16 and picked up 4/17/16. Mylar drawings and fee payment received on 7/5/16. Permit issued on 7/11/16. Demolition of existing services on 8/16/16. Mainline installation on 12/6/16. Service laterals installed on 1/9/17. Pressure test on 2/6/17. Bac-t test on 2/15/17. Bedding and service line placement on 4/3/17. Meter box placement on 5/8/17. Follow-up site visit on 5/17/17. Service abandonment on 8/30/17. Valve cans raised on 9/22/17. Meter box placement on 10/19/17. Gravel base on 12/5/17. Meter box placement on 2/14/18. Meters installed and locked off on 6/1/18, 7/17/18, on 8/1/18, and again on 9/7/18. Backflow tested on 9/11/18. Meters installed and locked off on 9/18/18, 9/25/18, and again on 10/5/18. Backflow tested on 10/9/18 and again on 2/27/19. Meters installed and locked off on 11/27/18, 12/5/18, 12/18/18, 1/10/19, 2/8/19, 2/21/19, 3/4/19, 3/12/19, again on 4/26/19. Engineering coordinating with Operations and Customer Services to determine remaining items in order to close project.
C003-16-01	788 Center Street	2 Single Family Homes	Plans received and plan check fees paid on 6/28/16. Plans returned on 7/14/16. Fees paid and permit issued on 1/6/17. Pre-con held on 1/16/18. Service installed on 3/8/18. Meters installed and locked on 3/13/18. Flowthru system tested on 5/22/19.
C0012-17-02	929 Baker Street	55 Detached Condos	Plans received and plan check fees paid on 9/27/16. Plans picked up on 10/18/16. Plans submitted on 2/22/17. Plans returned on 3/6/17. Fees paid and permit issued on 3/21/17. Precon held on 6/1/17. Services installed on 8/31/17. Mainline turned on 9/14/17. Meters installed and locked on 2/26/18. Awaiting call for backflow testing to complete project. Meters installed and locked on 8/6/18. Backflow tested on 8/24/18. Site check done on 9/25/18, homes are still under construction. Meters installed and locked off on 11/2/18. Meters installed again on 1/10/19. Flowthru system tested on 3/22/19. Coordinating backflow testing for irrigation services. Backflow testing for irrigation services completed on 4/25/19. Abandonments done on 5/14/19. Meters installed 5/2/19, and flowthru systems tested on 6/6/19.

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0014-18-01	1585 MacArthur	Commercial Building	Plans received and plan check fees paid on 3/27/18. Comments returned on 4/5/18. Awaiting resubmittal. Plans approved, final fees paid and permit issued on 8/7/18. Construction inspections are currently in progress with mainlines being excavated on 8/29/18, 9/5/18, 9/6/18. Backflow for fireline installed on 9/12/18. Service abandonments completed on 10/16/18. Services installed on 2/26/19. Meters installed and locked off on 2/28/19. One meter upgraded on 4/2/19 and the other on . Backflow testing for fire, domestic and irrigation system completed 4/26/19.
C0027-17-01	231 Flower Street	Meter Upgrade	Plans received and plan check fees paid on 3/23/17. Fees paid and permit issued on 4/21/17. Site visit on 10/30/17, and again on 5/30/18; no progress to report. Site visit on 8/20/18 and 9/25/18 with no activity. Engineering to follow up on 4/9/19. Meter to be set up with customer service and checking on backflow preventer testing.
C0029-17-01	127 23rd Street	4 Single Family Homes	Plans received and plan check fees paid on 5/12/17. Fees paid and permit issued on 8/3/17. Awaiting call for initial inspections. Service installed on 2/8/18. Meters installed and locked on 2/15/18. Awaiting call for backflow testing to complete project. Spoke to property owner on 10/10/18, construction will be done by the end of 2018 to test flowthru system. Service abandonments to be completed.
C0035-18-01	146 18th Street	2 Single Family Homes	Plans received and plan check fees paid on 8/8/17. Fees paid and permit issued on 9/21/17. Meters installed and locked on 10/20/17. Site visit on 1/9/18; awaiting schedule for backflow testing.
C0037-18-01	2850 Mesa Verde Drive East	11 Single Family Homes	Plans received and plan check fees paid on 8/17/17. Fees paid and permit issued on 10/18/17. Manifold installation on 12/6/17. Meters installed on 12/29/17. Irrigation meter installed on 3/28/18. Backflow test on 4/18/18. Meters placed and locked on 5/31/18. Site visit done to verify progress on 8/20/18. Meters installed on 9/21/18. Awaiting schedule to complete testing of one remaining backflow.
C0039-18-01	172/174 Costa Mesa Street	2 Single Family Homes	Plans received and plan check fees paid on 8/22/17. Fees paid and permit issued on 8/29/17. Precon meeting held on 2/6/19. Services installed on 2/8/19. Meter installed and locked off on 2/19/19. Flowthru system tested on 5/30/19.

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0041-18-01	160 & 162 E 18th Street	2 Single Family Homes	Plans received and plan check fees paid on 9/27/17. Fees paid and permit issued on 11/2/17. Meters installed and locked on 3/26/18. Meters installed and locked on 6/28/18. Backflow tested on 10/29/18.
C0042-18-01	335 & 337 16th Place	2 Single Family Homes	Plans received and plan check fees paid on 10/26/17. Final fees paid on 8/8/18. Site visit on 8/20/18; contractor still grading the area. Precon held on 5/15/19. Meters installed on 5/30/19. Flowthru systems tested on 6/21/19.
C0044-18-01	276 E 19th Street	Meter Upgrade	Plans received and plan check fees paid on 1/21/18. Final mylar signed on 2/28/19. Precon held on 3/4/19. Meter installed and locked off on 3/6/19. Backflow tested on 3/7/19, and again 4/3/19.
C0047-18-01	3505 Cadillac Avenue	Commercial Building	Plans received and plan check fees paid on 1/22/18. Fees paid and permit issued on 4/10/18. Services placed on 5/2/18. Thrustblocks placed on 6/6/18. Pressure test performed on 7/9/18. Project is in process.
C0048-18-01	235 Baker	Commercial Building	Plans received and plan check fees paid on 2/15/18. Fees paid and permit issued on 4/13/18. Site visit on 8/20/18 to verify work status; no construction. Development back on track; precon held on 6/10/19. Fireline pressure tested on 6/17/19. Bac-T tests performed on 6/19/19 and 6/20/19.
C0049-18-01	428 E 17th Street	Restaurant	Plans received and plan check fees paid on 1/26/18. Fees paid and permit issued on 5/4/18. Pressure test on 5/25/18. Shutdown for tee cut-in on 6/5/18. One fire service is active, the other is stubbed to property. Awaiting call for fireline pressure test and samples. Water service manifold stubbed to property. Pressure test and Bac-T tests done on 9/7/18, 9/11/18 and again on 9/13/18. Pressure test performed on 10/22/18.
C0051-18-01	1650 Monrovia	Senior Living Complex	Plans received and plan check fees paid on 2/15/18. Comments returned on 3/12/18. Revised submittal received on 4/24/18. Project to undergo hydraulic model analysis. Second plan check complete. Easements recorded on 8/14/18. Final fees paid on 8/23/18. Precon meeting held on 9/26/18. Fireline excavation and thrustblock placement on 11/27/18. Meters installed on 1/10/19. Health samples performed on 1/30/19 and 1/31/19.

DEVELOPER PROJECT STATUS REPORT

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0052-18-01	302 Cabrillo	2 Single Family Homes	Plans received and plan check fees paid on 2/26/18. Fees paid and permit issued on 5/7/18. Awaiting initial calls for inspections. Verified with new property owner on 3/11/19 that construction will begin in 2019.
C0053-18-01	1908 Tustin	Single Family Home	Plans received and plan check fees paid on 3/8/18. Fees paid and permit issued on 3/13/18. Meter upgraded on 4/15/19. Awaiting schedule for backflow placement and test.
C0054-18-01	3505 Cadillac Avenue, Unit O-101	Commercial Building	Plans received and plan check fees paid on 5/7/18. Fees paid and permit issued on 5/22/18. Tapping sleeve, and hot tapping done on 5/2/18. Thrustblock placement inspections on 5/2/18, 6/6/18, and 7/9/18. Pressure test done on 7/9/18. Fireline turned on 9/12/18.
C0056-18-01	2033 Republic Avenue	Single Family Home Service & Meter Upgrade	Plans received and plan check fees paid on 6/19/18. Comments returned for second plan check review on 6/28/18. Second plan check submitted 7/26/18, and redlines picked up on 8/20/18. Third plan check submitted on 12/13/18, and redlines picked up on 1/15/19. Fourth and final plan check submitted on 1/24/19, and redlines picked up on 1/29/19. Final approval by District Engineer on 4/18/19. Final permit fees paid on 4/18/19. Permit issued on 4/30/19. Revised drawings issued 7/1/19 and returned 7/1/19.
C0010-19-01	2214 Elden Avenue	Single Family Home	Plans received and meter replacement fees paid on 4/15/19. 1st Plan check submitted on 4/18/19 and are in progress. Meter upgrade completed on 5/1/19. Flowthru system tested on 5/2/19 and project ready to close.
C0013-17-03	1845 Park Avenue	Lion's Park Project	Plans received and meter replacement fees paid on 11/13/17. Precon held on 7/19/18. Services installed on 9/11/18, 9/12/18, 9/13/18. Backflow placed on 10/3/19. Shutdown performed on 10/9/18. Abandonments done on 12/18/18. Irrigation meter installed on 4/30/19. Backflows tested on 5/1/19, 5/2/19. Shutdown for more abandonments performed on 5/14/19.
C0013-19-01	Harbor and Wilson Medians	City Medians	Plans received and meter replacement fees paid on 4/16/19. 1st Plan check submitted on 4/16/19 and redlines returned on 4/19/19. Final permit fees paid on 5/20/19 and permit issued on 5/20/19. Precon meeting held on 5/25/19. Excavation and hot-tap work done between 5/20/19 and 5/24/19. Meters installed on 6/4/19. Backflow placement and test completed 6/12/19.

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0058-18-01	585 & 595 Anton Boulevard	Apartment Complex	Plans received and plan check fees paid on 6/8/18. Currently in plan check. Meeting scheduled with owner on 9/12/18 to go over questions they have. Plans approved to perform demolition for grading only at this time. Operations is currently working on practice shutdowns for service connection tie-in. Precon with contractor held on 1/22/19. Shutdowns for abandonments performed on 3/14/19, 3/18/19, and on 3/19/19. Submitted hydraulic analysis on 4/5/19 Waiting for signed Water Service Agreement and all other plan check processes are completed.
C0060-19-01	3505 Cadillac Avenue, Unit F-9	Commercial Building New Fire Line	Plans received and plan check fees paid on 7/23/18. Permit issued for major service line and fire systems infrastructure. Final permit will be reviewed when tenant improvements are submitted. Fireline excavation and thrustblock placement on 12/10/18 and 12/14/18. New T.I. was submitted on 3/8/19 to continue plan check and approve final permit.
C0061-19-01	3033 Bristol Street, Space 2071	Restaurant Expansion	Plans received and plan check fees paid on 8/16/18. Awaiting final payment of fees. Engineering is following up on 4/9/19 and 4/25/19.
C0062-19-01	1591 & 1593 Riverside	Two Single Family Homes	Plans received and plan check fees paid on 12/14/18. Final fees paid on 2/6/19. Permit issued on 2/13/19. Precon held on 2/28/19. Services installed on 3/4/19. Waiting for meter installation and flowthru testing to be schedule.
C0063-19-01	1375 Sunflower	Commercial Building	Plans received and plan check fees paid on 12/14/18. Customer picked up redlines on 12/31/18. Second plan check submitted on 1/11/19, and redlines picked up on 1/29/19. Third plan check submitted on 1/31/19. Final permit fees paid on 6/20/19 and permit issued on 6/25/19.
C0064-19-01	1975, 1977, 1981, 1985 Placentia Avenue	Commercial Building	Plans received and plan check fees paid on 11/6/18. Currently in plan check. Final plan check fees paid on 1/15/19. Permit issued on 1/17/19. Precon held on 2/14/19. Hot-Tap performed on 2/20/19. Meters installed on 3/4/19, and again on 3/22/19. Backflow tested on 3/5/19, and another on 3/22/19.
C0065-19-01	245 Knox Rd	Single Family Home	Plans received and plan check fees paid on 11/7/18. Final fees paid on 2/5/19. Precon meeting held on 2/8/19. Meter installed and locked off on 2/21/19. Flowthru system tested on 3/20/19.

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C0065-19-02	1545 Westminster	Single Family Home	Plans received and plan check fees paid on 11/7/18. Final fees paid on 2/5/19. Precon meeting held on 2/8/19. Services installed on 2/12/19. Meter installed and locked off on 2/21/19. Flowthru system tested on 3/20/19.
C0066-19-01	2062 Pomona	Single Family Home	Plans received and plan check fees paid on 11/29/18. Final fees paid on 1/22/19. Precon held on 2/5/19. Services installed on 2/11/19. Waiting for flowthru testing to be scheduled.
C0067-19-01	3505 Cadillac Avenue, Suite A	Commercial Building New Fire Line	Plans received and plan check fees paid on 12/14/18. Plans picked up on 12/20/18. Second plan check submitted 1/9/19, and picked up again on 1/15/19. Third plan check submitted on 1/25/19. Final permit fees paid on 2/7/19. Permit issued on 2/13/19. Precon held on 2/22/19. Services installed on 2/28/19, and Chlorinated. Hot-Tap done on 3/1/19. Bac-T tests performed on 3/5 and 3/6/19. Concrete pad done on 3/8/19. Backflow tested and fireline was charged on 3/11/19.
C0069-19-01	767 W 17th Street	Meter Upgrade	Plans received and plan check fees paid on 1/7/19. Second plan check submitted 3/21/19, and redlines picked up on 3/26/19. Final permit fees paid on 3/27/19. Site visit/pre con completed on 4/26. Flowthru tested on 5/2/19, and additional backflow tested on 6/7/19.
C0070-19-01	3333 Bristol Street Space 3001	Commercial Building	Plans received and plan check fees paid on 1/3/19. Customer picked up redlines on 1/7/19. Second plan check submitted on 1/15/19, and redlines picked up on 1/31/19. Third plan check submitted on 2/12/19, and redlines picked up on 2/14/19. Final fees paid on 2/28/19. Permit issued on 3/11/19. Precon meeting held on 3/18/19. Precon held on 2/5/19. Meter upgraded on 3/25/19.
C0071-19-01	2277 Harbor Boulevard	Commercial Building	Plans received and plan check fees paid on 1/7/19. Customer picked up redlines on 1/25/19. Second plan check submitted on 1/28/19, and redlines picked up on 1/31/19. Final permit fees paid on 5/28/19. Permit issued on 5/30/19.
C0072-19-01	168 & 170 Cabrillo	Two Single Family Homes	Plans received and plan check fees paid on 1/14/19. Customer picked up redlines on 1/24/19. Customer submitted second plan check on 5/9/19. Second plan check submitted on 5/13/19 and redlines picked up on 5/20/19. Final permit fees paid on 5/30/19 and permit issued on 6/3/19.

DEVELOPER PROJECT STATUS REPORT

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0073-19-01	55 Fair Drive	Vanguard University Student Center	Plans received and plan check fees paid on 1/14/19. Customer picked up redlines on 2/12/19. Second plan check submitted on 3/11/19. Third/Fourth (and final) plan check submitted on 3/14/19 and redlines picked up on 3/25/19. Final mylars submitted on 4/26/19.
C0073-19-02	55 Fair Drive	Vanguard University East Annex Science Modular	Plans received and meter replacement fees paid on 3/14/19. First plan check completed on 5/9/19 and redlines mailed on 5/14/19. Second plan check submitted 7/3/19.
C0074-19-01	2538 Oxford Lane	Single Family Home	Plans received and plan check fees paid on 11/14/18. Customer picked up redlines on 1/31/19. Second plan check submitted on 2/1/19, and redlines picked up on 2/5/19. Waiting for 3rd plan check submittal. Received fire department approval on 5/31/19.
C0075-19-01	2942 Century Place	Commercial Building	Plans received and plan check fees paid on 1/23/19. Customer picked up redlines on 1/29/19, and redlines picked up on 2/8/19. Second plan check submitted 3/25/19, and redlines picked up on 4/2/19. Final permit fees paid on 5/14/19. Precon meeting held on 5/30/19. Services installed 6/5/19. Meters installed 6/10/19. Abandonments performed on 6/18/19. Backflow tested on 6/28/19.
C0076-19-01	2948 Randolph	Commercial Building	Plans received and plan check fees paid on 1/23/19. Customer picked up redlines on 2/1/19. Second plan check/mylars submitted on 2/11/19. Final fees paid on 2/14/19. Permit issued on 2/14/19. Precon held 2/22/19. Services installed on 3/19/19. Meter installed and backflow tested on 3/20/19.
C0077-19-01	1922 Pomona	Commercial Building	Plans received and plan check fees paid on 1/28/19. Customer picked up redlines on 2/1/19. Second plan check submitted on 2/5/19, and redlines picked up again on 2/12/19. Final fees paid on 2/27/19. Permit issued on 3/11/19. Precon meeting held on 3/19/19. Meter installed 3/28/19. Owner in process of installing backflow to be tested.
C0078-19-01	3505 Cadillac Avenue, F-5	Commercial Building New Fire Line	Plans received and plan check fees paid on 1/31/19. Customer picked up redlines on 2/5/19. Second plan check submitted on 3/8/19. Final permit fees paid on 4/2/19. Recorded easement on 4/22/19. Precon meeting held on 5/15/19.

DEVELOPER PROJECT STATUS REPORT

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0079-19-01	1957 Newport Boulevard	Meter Upgrade	Plans received and plan check fees paid on 2/5/19. Customer picked up redlines on 2/27/19. Meeting on 3/5/19 with customer to discuss easement. Second plan check was submitted on 4/23/19 and redlines to be picked up on 5/6/19. Third plan check submitted on 5/16/19.
C0080-19-01	246 Tulane Road	Meter Upgrade	Plans received and plan check fees paid on 2/6/19. Customer picked up redlines on 2/12/19. Second plan check was submitted on 3/4/19, and redlines picked up on 3/11/19. Plan check package approved by District Engineer on 4/15/19 and provided inspection card on 4/29/19. Permit issued on 4/15/19. Precon held on 4/29/19. Meter upgraded on 6/14/19.
C0081-19-01	2060 Maple Avenue	Single Family Home	Plans received and plan check fees paid on 11/22/18. Owner put plans on hold and resubmitted on 2/5/19. Customer picked up redlines on 2/12/19. Second plan check was submitted on 2/21/19, and redlines picked up on 2/28/19. Third plan check submitted on 2/28/19, and redlines picked up on 3/5/19. Fourth (and final) plan check submitted on 3/26/19 and returned on 4/2/19. Final permit fees paid on 4/2/19 and approved by the District Engineer on 4/18/19. Precon held on 4/25/19. Final permit fees paid on 4/2/19. Permit issued on 4/18/19. Precon held on 4/25/19. Services and pipeline installed on 6/20/19. Shutdown for Abandonments performed on 6/26/19. Meters installed 7/1/19. Backflows tested on 7/3/19.
C0058-19-01	585 & 595 Anton Boulevard (P2)	Apartment Complex	Plans received and plan check fees paid on 2/5/19. Customer picked up redlines on 2/8/19. Second plan check submitted 3/11/19, and redlines picked up on 3/25/19. Hydraulic Analysis received on 4/5/19. Received Water Service Agreement on 4/30; Final permit fees paid on 5/8/19. Permit issued on 5/8/19. Precon meeting held on 5/16/19. Waiting for revised Easements and Quit Claims regarding legal entities. Services installed 6/28/19. Pressure tests done on 7/2/19, Bac-T tests done on 7/8/19.
C0082-19-01	3323 Hyland Avenue	Apartment Complex	Plans received and plan check fees paid on 2/20/19. Customer picked up redlines on 3/4/19. Second plan check submitted 3/26/19, and redlines picked up on 4/2/19. Second plan check submitted 6/11/19, and redlines picked up on 6/18/19.

DEVELOPER PROJECT STATUS REPORT

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0083-19-01	175 Costa Mesa	Meter Upgrade	Plans received and plan check fees paid on 2/20/19. Customer picked up redlines on 3/4/19. Second plan check was submitted on 4/15/19, and redlines picked up on 4/18/19. Plan check package approved by District Engineer on 5/2/19 and provided inspection card on 5/3/19. Completed meter installation on 5/6/19 and tested flowthru system on 5/8/19.
C0084-19-01	410 E 17th Street	Commercial Business	Plans received and plan check fees paid on 2/20/19. Customer picked up redlines on 3/4/19.
C0085-19-01	3030 Airway Avenue, Suite B	Commercial Business	Plans received and plan check fees paid on 3/5/19. Customer picked up redlines on 3/12/19. Second plan check submitted 04/1/19, and redlines picked up on 4/8/19. Final permit fees paid on 5/2/19 and permit issued on 6/6/19. Precon held on 6/20/19.
C0086-19-01	285 22nd Street	Residential Care Facility	Plans received and plan check fees paid on 3/11/19. Customer picked up redlines on 3/19/19. Second plan check submitted on 5/9/19. Customer to pick up Second plan check redlines on 5/6/19. Third plan check submitted on 5/14/19 and picked up on 5/30/19.
C0087-19-01	1885 Anaheim Avenue	Church	Plans received and plan check fees paid on 3/15/19. Precon meeting held on 4/1/19. Meter changed out on 4/1/19 and waiting for final mylar before closing out project.
C0088-19-01	239 Knox Street	Single Family Home	Plans received and plan check fees paid on 4/2/19. 1st Plan Check submitted on 4/9/19 and redlines picked up on 4/11/19. Second plan check submitted on 4/29/19. Third and final plan check submitted on 5/13/19. Final permit fees paid on 5/28/19 and permit issued on 6/11/19.
C0089-19-01	3160 Airport Way	John Wayne Airport Taxilot	Plans received and plan check fees paid on 4/8/19. 1st Plan Check submitted on 4/9/19. Second plan check submitted 04/19/19 and redlines picked up on 4/25/19. Final permit fees paid on 6/18/19.
C0090-19-01	2831 Bristol Street	Parking Lot	Plans received and plan check fees paid on 4/9/19. 1st Plan Check submitted on 4/11/19. Customer picked up redlines on 4/16/19. Second plan check submitted 04/19/19 and redlines picked up on 4/25/19. Final permit fees paid on 5/2/19 and permit issued on 6/6/19.
C0091-19-01	368 Magnolia	Single Family Home	Plans received and meter replacement fees paid on 4/15/19. First plan check submitted on 4/18/19 and redlines picked up on 4/23/19. Final permit fees paid on 5/20/19 and permit issued on 5/20/19.

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0092-19-01	Harbor and Hamilton	29 New Townhomes	Plans received and plan check fees paid on 4/23/19. First plan check submitted 4/23/19 and redlines to be picked up on 5/6/19. Second plan check submitted on 6/11/19 and redlines picked up on 6/18/19.
C0093-19-01	163 Broadway	Single Family Home	Plans received and meter replacement fees paid on 4/24/19. 1st Plan check submitted on 4/24/19 and redlines picked up on 5/6/19. Second plan check submitted on 5/13/19 and redlines picked up on 5/24/19. Final Permit fees paid on 7/3/19 and permit issued on 7/3/19. Precon held on 7/9/19.
C0094-19-01	259 E. 20th Street	Single Family Home	Plans received and plan check fees paid on 4/30/19. 1st Plan check submitted 4/30/19 and redlines to be picked up on 5/9/19. 2nd Plan check submitted on 5/14/19 and returned on 5/20/19. Final Permit fees paid on 5/21/19 and permit issued on 5/21/19.
C0095-19-01	272 Esther Street	Single Family Home	Plans received and plan check fees paid on 4/30/19. 1st Plan check submitted 4/30/19 and redlines to be picked up on 5/7/19. Second Plan check submitted 6/4/19 and redlines to be picked up on 6/11/19.
C0096-19-01	333 E. 17th Street, Suite 22	Commercial	Plans received and plan check fees paid on 4/30/19. 1st Plan check submitted 4/23/19 and redlines picked up on 5/9/19.
C0097-19-01	3505 Cadillac, Suite L-3	Commercial	Plans received and plan check fees paid on 4/30/19. 1st Plan check submitted 4/30/19 and redlines to be picked up on 5/9/19. Second plan check submitted on 6/4/19 and redlines picked up on 6/11/19.
C0098-19-01	2542 Elden Avenue	Single Family Home	Plans received and plan check fees paid on 5/28/19. 1st Plan check submitted 5/28/19 and redlines to be picked up on 5/28/19. It was determined the Project was not in Mesa Water service area so plan check fee is being returned.
C0099-19-01	3505 Cadillac, Suite E	Commercial	Plans received and plan check fees paid on 6/3/19. 1st Plan check submitted 6/3/19 and redlines picked up on 6/6/19. 2nd Plan check submitted on 6/10/19 and redlines picked up on 6/13/19.
C0100-19-01	391 La Perle Place	Single Family Home (New Service)	Plans received and plan check fees paid on 5/30/19. 1st Plan check submitted 5/30/19 and redlines to be picked up on 6/11/19. 2nd Plan check submitted on 6/13/19 and redlines picked up 6/13/19. Final fees and permit issued on 6/20/19. Precon held on 6/26/19. Service installed on 6/27/19. Meter installed on 7/9/19.

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0100-19-02	393 La Perle Place	Single Family Home (Meter Upgrade)	Plans received and plan check fees paid on 5/30/19. 1st Plan check submitted 5/30/19 and redlines to be picked up on 6/11/19. 2nd Plan check submitted on 6/13/19 and redlines picked up 6/13/19. Final fees and permit issued on 6/20/19. Precon held on 6/26/19. Meter upgraded on 7/9/19.
C0101-19-01	1275 Bristol Avenue	Car Dealership	Plans received and plan check fees paid on 6/11/19. 1st Plan check submitted 6/11/19 and redlines to be picked up on 6/18/19.
C0102-19-01	3560 Cadillac Avenue	Commercial	Plans received and plan check fees paid on 6/18/19. 1st Plan check submitted 6/18/19 and redlines to be picked up on 7/2/19.
C0103-19-01	150 Paularino	Commercial	Plans received and plan check fees paid on 6/18/19. 1st Plan check submitted 6/18/19 and redlines to be picked up on 7/3/19.
C0104-19-01	413 E. 20th Street	Single Family Home	Plans received and plan check fees paid on 7/1/19. 1st Plan check submitted 7/1/19 and redlines to be picked up on 7/1/19.

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

July 2019

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

File No.: M 2034

Description: Evaluate potential repair and replacement options

Status: The Habitat Mitigation and Monitoring Plan (HMMP) has been updated by Michael Baker (former RBF) to reflect the USACE's process and submitted to Mesa Water for review on 1/8/16. Once the HMMP is revised and approved (1/19/16) it will be forwarded to all agencies, including the Coastal Commission. Draft 1602 Streambed Permit obtained on 12/18/15. Final 1602 Streambed Permit pending CDFW will be issued while HMMP is accepted. U.S. Army Corps of Engineers' 404 permit received on 2/10/16. Revised HMMP sent to CCC for review and approval. Project is pending CCC's approval at an upcoming hearing. On 2/29/16, a meeting with Fletcher Jones Motorcars, City of Newport Beach, MBI (former RBF), and City of Huntington Beach was held to discuss issues associated with proposed construction activities. Traffic Plan prepared and submitted to the City of Newport Beach for approval on 6/29/16. Per request of CCC a dewatering plan was prepared and submitted for approval. Mesa Water staff, MBI and CCC met on 10/6/16 and discussed mitigation conditions. Project approved at CCC Public Hearing on 12/7/16. MBI is working on finalizing the HMMP and construction plans and will submit them to CCC. Staff met with MBI on 5/1/17 and discussed comments after reviewing the draft final HMMP. New proposed mitigation criteria received from CCC on 7/5/17 reducing mitigation requirements from 1.6 acres to 0.66 acres. Coastal Development Permit for Construction is anticipated in December, 2017. The project re-start meeting was held on 9/7/17. On 10/30/17 met with City of Newport Beach and City of HB to discuss permit requirements and project access. Met w/Fletcher Jones, Skender Construction, City of HB, MBI to discuss access to the site and scheduling on November 21, 2017. Reviewing the 100% Design Plans & Specs (received on 11/28/17) along with the Pipeline Design Schedule, Construction Monitoring Treatment Plan (CMTP), and proposal for Natural Resources/Regulatory Services during construction activities. Bid solicitation is scheduled for late January 2018. Project sent out to bid on January 30, 2018. Pre-bid meeting held on 2/15/18. Construction bid solicitation was cancelled due to ongoing coordination issues for the final Coastal Development permit. Project was deferred to FY20. On 8/1/18, Orange County Public Works issued a one-year extension to the previously issued Encroachment Permit. The Caltrans Encroachment Permit extension application is under review as of 8/13/18. The CCC extended the permit a year without hearing. MBI moved forward with the amendment to reduce mitigation. The updated information was forwarded by MBI to CCC in the week of August 6, 2018 and November 2, 2018. Staff held a stakeholder coordination meeting on 1/3/2019. Request for Bids sent out to contractors on February 6, 2019. Six bids received on 3/6/19. E&O Committee recommended award of the contract to lowest bidder (E.J. Meyer Company) on 3/19/19. Kick-off meeting held on 4/25/2019. Staff is

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

July 2019

working on reviewing submittals. Met with SARWQB on 5/24/19 and discussed water discharge permit requirements w/Susan Beeson. On 5/30/19 met with OCSD and went over requirements for the Special Purpose Discharge Permit. Held Project Progress meeting on 6/6/19 and coordination meeting with Metropolitan Water District on 6/20/19. Project in Progress (7/3/19)

Project Title: Pipeline Testing Program

File No.: MC 2141

Description: Implement Resolution No. 1442 Replacement of Assets to annually perform non-destructive testing of 1% of the distribution system, and destructive testing of segments that are shown to have less than 70% of original wall thickness by non-destructive testing.

Status: Extraction of six sections of ACP and two sections of CIP are in process for 2017 destructive testing. ACP samples were sent to WSP Canada for destructive testing. Results were received on August 1, 2017. CIP samples will be sent to McWane Ductile's lab in Ohio for destructive testing. Results were received on June 30, 2017. A Request for Qualifications for consulting services for the Pipeline Integrity Testing Program was released in May 2017. Four Statements of Qualifications were received and a recommendation for contract award to HDR was approved by the E&O Committee on July 20, 2017. ACP test results were received on July 31, 2017. Results have been analyzed, and were presented at the November Committee meeting. Average ACP total useful life is expected to be approximately 142 years. A process for determining when a pipeline has reached the end of its useful life and how much of the pipeline to replace was implemented. One 8" ACP line in Harbor Boulevard from Wilson to 19th Street was recommended for replacement. Kickoff meeting for a close interval survey of the 12" Cast Iron Pipe in 19th Street was held on December 28, 2017, and the Consultant has completed the field work. The report is expected in April 2018. Operations staff has collected four ACP pipe samples during valve replacement projects, and one during an AC mainline repair. The samples have been sent to a laboratory for remaining wall thickness measurements, and the reports show that while they have lost structural thickness, the remaining useful life is still 35 - 53 years. The mainline break sample showed the smallest remaining useful life and shortest total useful life of any AC sample. Additional AC pipe samples from valve replacements are being collected. Echologics performed three miles of non-destructive wall thickness measurements during the week of February 12, 2018. A report of the results was received in March 2018. A comprehensive review of cathodic protection test stations was performed in April and May 2018. The report and recommendations was received on June 20, 2018. Five AC pipe samples and nine soil samples collected during valve replacements in 2018 were delivered by the contractor and sent to labs for pipe wall thickness measurements and soil corrosivity analysis. Results show that the expected total useful life of AC pipe is approximately 138 years. Two AC pipe samples were collected during valve replacements in November 2018 and sent to the lab for wall thickness measurements. Results were received on January 10, 2019. One sample is

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

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being further analyzed. Three miles of AC pipe constructed in 1956 were selected for non-destructive wall thickness measurement, which occurred during the week of January 14, 2019. The report was received on February 8, 2019. Five AC pipe samples are planned to be collected and sent for wall thickness measurements as part of routine valve replacements in April 2019. Samples were sent to the testing lab in May 2019, and the wall thickness measurement report was received on June 24, 2019, and is being evaluated. With more data collected from AC pipe samples, a proposed update the Res. 1442 Replacement of Assets is being drafted for discussion by the E&O Committee in August 2019. (7/5/19)

Project Title: Mesa Water Administration Building Improvements & HVAC Replacement/Operation Building Repair Projects

File No.: MC 2171

Description: Evaluate the existing HVAC system, provide recommendations for improved efficiency and operations of the system, provide design, construction management, and construction.

Status: On 2/11/19 Snyder completed painting, carpeting and concrete floor polishing, installation of interior portion of the HVAC system, ceiling tiles and baseboards, rehabilitation of the upstairs and downstairs restrooms, overall cleaning. Also the furniture in supervisors and water quality office were reassembled. The Administration Staff started moving to the temporary office trailer. The contractor continued working on the roof of the Operations Building on installation of ducts and preparing for the upcoming rain. Starting from February 15 the contractor worked on the HVAC replacement on the second floor of the Administration building and EOC. The work included demolishing of old ducted HVAC piping, blocking for HVAC units, installation of HVAC units, installation of refrigerant and condensate piping, electrical work, painting, installation of the ceiling and carpet tiles, new water fountains and partial demolition of roofing for HVAC platform installation. The work on the second floor was completed on 4/24/2019 and the contractor started working on the first floor on 4/30/2019. The work included installation of HVAC units, installation of refrigerant and condensate piping, electrical work, and plumbing. Work on the first floor of the Administration Building including installation of skylight completed on 6/8/19. The contractor continues working on the Boardroom improvements. Project in progress. (7/3/19)

Project Title: Chandler & Croddy Wells and Pipeline Project

File No.: M18-113

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

Status: Tetra Tech has been contracted to complete the design, documentation, and permitting for the Chandler and Croddy Wells and Pipeline Project. Initial data request sent to Tetra Tech on September 7, 2017. Met with Division of Drinking Water

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regarding well locations on September 20, 2017. Preliminary hydrological evaluation received on September 29, 2017. Board approved demolition of existing structures and dedicated well facility with option to evaluate long-term lease potential as market conditions dictate at both sites at November 2017 E&O. Butier Engineering has been contracted to provide Construction Management Services. Preliminary Design Report (PDR) for the distribution pipeline was reviewed and returned on March 6, 2018. Well site layouts were presented to the Board in May. DDW waiver for 50-foot control zone is currently being drafted. The revised PDR for the pipeline and the well sites was received in June 2018. A workshop to discuss review comments was held on August 14, 2018. 50% design for the Croddy Pipeline was received and the design review workshop occurred on November 26, 2018. 50% design for the wells is scheduled for submittal in February 2019. The draft CEQA Mitigated Negative Declaration was received on January 22, 2019, and filed for 30-day public comment on February 20, 2019 and completed on March 22, 2019. Four agencies submitted minor comments. A public meeting to adopt the Mitigated Negative Declaration has been noticed for the April 11, 2019 Board of Directors meeting. The revised Preliminary Design Report for the Chandler and Croddy Wells was received on March 5, 2019, and is being reviewed by staff. 50% design documents for the existing building demolitions and well drilling were received on April 16, 2019, and are being reviewed by staff. (5/10/2019)

Project Title: Santa Ana Pressure Reducing Station Refurbishment Project

File No.: M17-002A

Description: The work will involve replacement of three (3) butterfly valves, one (1) existing pressure relief valve, precast concrete discharge structure, reconfiguring four (4) Cla-Val control valves, general refurbishments to the vault interior, and site work.

Status: Mesa Water has contracted with Michael Baker International to perform the design of the project. The design was completed in late January 2018 and the bid package was sent out to bid on February 8, 2018. Pre-bid meetings and site walk were held on 2/20/18 and 3/6/18, respectively. Three bids were received on March 13, 2018. Staff has recommended that the construction contract be awarded to J.R. Filanc, Inc., as the lowest bidder. E&O Committee recommended awarding contract to J.R. Filanc, Inc. on March 20, 2018 and Board approved it on April 12, 2018. The contract was finalized (5/1/18) and signed on 5/3/18. The kick-off meeting was held on May 21, 2018. Electrical work was completed the week of 10/15/18. Concrete work completed in the week of 11/12/18. Pipeline shutdown took place between 11/26/18 and 12/1/18. Final testing and acceptance completed on February 6, 2019. The contractor is working on providing replacement actuators for the existing plug valves and on refurbishment of the 6" bypass cla-valve. The replacement actuators have been ordered by the contractor. The contractor replaced damaged micro switch on train No. 4 and MOV actuators on trains 1 through 4 on 3/8/19 and 6/25/19, respectively. Project in progress. (7/3/19)

MESA WATER AND OTHER AGENCY PROJECTS STATUS REPORT

July 2019

Project Title: Meter Technology Evaluation

File No.: MC 2248

Description: The lifespan of a water meter is approximately 15 years. As a meter ages, the accuracy drops off due to wear. In preparation for its annual water meter replacement, staff has been reviewing water meter technology determining what water meter and reading solutions would be the best fit for Mesa Water's aging register technology. With today's technology, there are several types of meters and meter reading solutions available. The most common are as follows: Fixed Network, Automatic Meter Reading (AMR) System, Handheld or Touch Technology, and Advanced Metering Analytics - Cellular Endpoint.

Status: Mesa Water prepared a Technical Memo with information of the existing aging metering technology in comparison with proposed new meter reading solutions. The Technical memo was presented to the April E&O Committee and approved by the Board at the May 2019 Board meeting. Recommendations approved by the Board for early implementation include ensuring competitive pricing from the standardized meter supplier, making cellular endpoint meters available to customers who wish to have access to real-time water use data, and working with the meter reading software vendor to configure a software upgrade. Staff has compiled the total installed cost of the cellular endpoint meters and will present an implementation plan at the August Engineering and Operations Committee meeting. Staff is also negotiating with National Meter and Automation for preferred customer pricing and limiting annual price escalation. (7/5/19)

Project Title: Reservoirs 1 & 2 Chemical Systems Design

File No.: M18-117

Description: Improve disinfection and mixing in both reservoirs to improve water quality and minimize nitrification.

Status: Final Design Contract awarded to Hazen & Sawyer on February 14, 2018. 50% design report received on July 17, 2018. Design review workshop took place in September 2018. A site visit to Laguna Beach County's El Morro reservoirs occurred on November 8, 2018, to evaluate the Vortex mixing system. Staff met with the designer on December 5, 2018, to incorporate design-for-reliability and design-for-maintainability principals into the mixing system design. The consultant is working with the mixer supplier to ensure that the reliability and maintainability requirements will be met at both the reservoir sites. The consultant provided a Technical Memo summarizing the options for maintainability and reliability of the mixer system on April 4, 2019. The 90% design deliverable was received on June 4, 2019, and is being reviewed by staff. (7/5/2019)

Water Quality Call Report

June 2019

Date: 6/12/2019
Source: Phone
Address: 3400 Lantana Lane
Description: Customer noticed odor at bathroom sink a week ago and again today.
Outcome: Explained to customer about the possibility of p-trap off gassing odor and walked customer through the process of determining if the odor is coming from the water or not. Customer did not notice any odor from the water so it's likely a drain issue. Advised her to disinfect the drain. She also inquired and was provided the average and range of hardness levels. Customer was satisfied and did not need a site visit.

Date: 6/17/2019
Source: Phone
Address: 1053 Santa Cruz
Description: Customer called to report that his family at home were experiencing discolored water.
Outcome: Checked with Distribution supervisor and there was no known construction in the area. Customer will check on the water after work since his family stepped out and were not home. Provided standby contact information to customer in case of need. Called customer in the morning and he said the water had cleared up when he got home.

Date: 6/18/2019
Source: Phone
Address: 817 Jennifer Lane #A
Description: Customer concerned that she's getting dirt in the water. She believes the neighbor's construction (jack hammering) may have hit the water pipe.
Outcome: Explained to customer that the pipes are under pressure and if any water line was hit, the leak would likely become visible. Also told customer that it's possible the construction work could have disturbed sediments in the water lines. Advised customer to flush the water at the front hose bib until clear. Offered to do a site visit but customer wanted to hold off until after the neighbor is done with the major work at the end of the week. She will call to schedule. Several attempts were made in late June to contact customer and follow up but could not reach customer.

Date: 6/19/2019
Source: Phone/Visit
Address: 3443 Wimbledon Way
Description: Customer reported having discolored water intermittently.

Outcome: While repairing some home fixtures, customer noticed gravel upon removing the aerator at one of the faucets. During the site visit, staff sampled both hose bibs at the garage where one was domestic water and one was softened water. The water softener system has not been in use for quite some time and was where the discolored and small size gravel were observed. The domestic water at hose bib was clear and chlorine residual and pH were within normal range. Recommended that customer flush his internal water lines and the water heater. Also recommended he get a plumber and/ or a service technician for advice on his water softening system. It was also noted that the neighbor to the east has not noticed any issues with the water.

Date: 6/21/2019
Source: Phone
Address: 252 Walnut
Description: Customer would like to get her water tested for lead.

Outcome: Explained to customer that Mesa Water's Lead and Copper sampling program is limited to a list of specific, approved homes. She understood and requested a list of laboratories that could perform the testing. A list of local state certified drinking water laboratories was sent to customer.

Date: 6/24/2019
Source: Phone/Visit
Address: 391 Latitude East
Description: Customer called saying that she was experiencing discolored water.

Outcome: During site visit, water sample from the service line leading into household was clear. Customer recently had some plumbing work done. Recommended she flush her lines to clear the sediments and call back if she has further water quality concerns.

Date: 6/24/2019
Source: Phone/Visit
Address: 582 Park Drive
Description: Customer noticed black specks in the kitchen faucet/aerator.

Outcome: Sampled at hose bib near the meter and did not observe any black specks and the water was clear. The sample of black specks she collected appeared to be of rubbery consistency and is most likely from the braided supply hose. Customer will look into replacing the supply hose and call if she has any further concerns.

Date: 6/27/2019
Source: Phone/Visit
Address: 2281 Canyon Drive #A1
Description: Customer called and wanted to know how much lead is in the water because her doctor told her the lead and mercury levels in her blood are high.

Outcome: Explained the Annual Water Quality Report to customer and provided information on the lead and copper monitoring program and data. Customer requested a list of laboratories where she can test her water for lead. A list of local state certified laboratories was provided to her along with a copy of the new Water Quality Report.



COMMITTEE POLICY & RESOLUTION REVIEW

ENGINEERING and OPERATIONS COMMITTEE

Policy Assignments for 2019

Policy Name	Resolution No.	Date Adopted	Revision Schedule	Last Reviewed
Replacement of Assets Including Pipeline and Well Rehabilitation	1442	03/15/14	Review and update every 3 – 5 years	03/15/14
Rules and Regulations for Water Service	1514	07/12/18	Review and update as needed	07/12/18
Standard Specifications and Standard Drawings		05/03/18	Review and update as needed	05/03/18
Urban Water Management Plan	1477	06/09/16	Review and update as required every 5 years	06/09/16

Water Operations Status Report
July 1, 2018 - June 30, 2019

Operations Department Status Report	Wk Unit	Plan Days	Act Days	Plan Qty	Act Qty	Plan Cost	Actual Cost
01 - HYDRANTS							
WD-0101 - HYDRANT MAINTENANCE	HYDRANTS	169	152	3383	2949	\$68,350	\$55,241
WD-0102 - HYDRANT PAINTING	HYDRANTS	14	1	423	1	\$5,646	\$186
WD-0103 - HYDRANT REPAIR	HYDRANTS	52	38	60	26	\$16,888	\$18,711
Program 01 TOTAL			235	191		\$90,884	\$74,138
02 - VALVES							
WD-0201 - DISTRIBUTION VALVE MAINTENANCE	VALVES	120	136	2405	2642	\$49,415	\$53,751
WD-0202 - NIGHT VALVE MAINTENANCE	VALVES	14	10	164	141	\$5,971	\$5,778
Program 02 TOTAL			134	146		\$55,386	\$59,529
03 - METERS							
WD-0301 - NEW METER INSTALLATION	METERS	25	28	186	239	\$60,877	\$107,709
WD-0302 - RAISE REPLACE METER BOX	BOXES	12	5	57	11	\$9,544	\$2,000
WD-0303 - METER LEAK INVESTIGATION/REPAIR	INV/REP	41	41	312	265	\$11,557	\$18,128
WD-0305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	72	81	144	153	\$42,354	\$29,262
WD-0306 - LARGE METER TEST/REPAIR - C	TESTS	23	7	117	38	\$9,726	\$2,722
Program 03 TOTAL			173	162		\$134,058	\$159,821
04 - MAIN LINES							
WD-0401 - MAIN LINE REPAIR	REPAIRS	121	33	20	8	\$54,764	\$13,906
WD-0402 - AIR VAC MAINTENANCE/REPAIR	REPAIRS	26	22	159	135	\$10,017	\$7,580
WD-0403 - UNIDIRECTIONAL FLUSHING	FEET	0	0	369452	0	\$0	\$0
Program 04 TOTAL			147	55		\$64,781	\$21,486
05 - SERVICE LINES							
WD-0501 - SERVICE LINE REPAIR	REPAIRS	57	74	21	35	\$22,893	\$29,600
Program 05 TOTAL			57	74		\$22,893	\$29,600
06 - CAPITAL							
CAP AV - CAPITAL AIR VACUUM REPLACE	AIR VACS	60	0	10	0	\$24,477	\$0
CAP BI - CAPITAL BYPASS & METER INSTALL	REPLACE	12	1	1	1	\$6,388	\$253
CAP FH - CAPITAL HYDRANT UPGRADE	HYDRANTS	136	139	20	20	\$109,622	\$89,854
CAP LM - CAPITAL LARGE METERS	METERS	60	31	143	96	\$166,700	\$54,789
CAP MV - CAPITAL MAINLINE VALVE REPLACE	VALVES	113	114	20	23	\$84,647	\$59,246
CAP SL - CAPITAL SERVICE LINE REPLACE	SERVICES	38	25	10	5	\$18,856	\$9,594
CAP SM - CAPITAL SMALL METERS	METERS	117	134	1459	1541	\$139,289	\$179,021
CAP SS - CAPITAL SAMPLE STATION REPLACE	STATIONS	10	18	10	11	\$4,216	\$6,509
Program 06 TOTAL			546	462		\$554,195	\$399,266
TOTAL						\$922,197	\$743,840



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Tracy E. Manning, Water Operations Manager
DATE: July 16, 2019
SUBJECT: Water Quality Update on PFAS

RECOMMENDATION

This item is provided for discussion only.

STRATEGIC PLAN

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

PRIOR BOARD ACTION/DISCUSSION

None.

BACKGROUND

Per- and poly-fluoroalkyl substances (PFASs) are manmade substances that include PFOS and PFOA, which have been used extensively in the United States in consumer products such as carpets, clothing, fabrics for furniture, paper packaging for food, cookware, and other materials designed to be waterproof, stain-resistant or non-stick. They have also been used in fire-retarding foam and a variety of industrial processes.

Exposure through drinking water has become a concern due to the tendency of PFASs to accumulate in groundwater. Such contamination is typically localized and associated with a specific manufacturing facility or use, or airfield where PFAS chemicals were used for firefighting. Mesa Water District's (Mesa Water®) wells were tested for six PFAS, including PFOS and PFOA in 2013 under the Federal Unregulated Contaminant Monitoring Rule (UCMR3). All Mesa Water drinking water wells were non-detect at that time. Mesa Water continues to meet all federal and state drinking water regulations.

In May 2016, the United States Environmental Protection Agency (EPA) issued a lifetime health advisory for PFOS and PFOA for drinking water advising that water suppliers should notify their customers if the combined levels of PFOS and PFOA exceeded 70 ng/L. In June 2018, the California State Water Resources Control Board's Division of Drinking Water (DDW) established notification levels at concentrations of 13 ng/L for PFOS and 14 ng/L for PFOA, and recommended that sources with a combined PFOS and PFOA level greater than 70 ng/L (response level) be removed from service.

Mesa Water conducted additional non-compliance testing for PFOS and PFOA in July 2018, using a much lower detection level (2 ng/L) and results were again non-detect. On March 8, 2019, DDW issued monitoring orders to water purveyors with detectable levels of PFAS or with wells located in suspect areas that required their sources to be sampled at the new, lower detection level of 2 ng/L. Based on previous results and geographic area, Mesa Water did not receive an order for additional sampling.



DISCUSSION

DDW has proposed revisions to the notification levels (NLs) and response levels (RLs) for both PFOS and PFOA. The new NLs could be released by the end of July 2019, while the new RLs will likely be released in October 2019. DDW may request additional monitoring based on these new levels. Proposed changes are summarized in the following table. The listed proposed RLs may change based on results from additional testing and research.

Type	Description	PFOS	PFOA
Notification Level (NL)	Must notify governing body (city, county, board); Recommends notifying consumers	<i>Current</i> 13 ng/L or ppt	<i>Current</i> 14 ng/L or ppt
		<i>Proposed</i> 6.5 ng/L or ppt	<i>Proposed</i> 5.1 ng/L or ppt
Response Level (RL)	Recommends taking source out of service - Additional notification required if utility continues serving	<i>Current PFOS + PFOA</i> 70 ng/L	
		<i>Proposed</i> 40 ng/L or ppt	<i>Proposed</i> 10 ng/L or ppt

On June 25, 2019, Orange County Water District Executive Director of Water Quality and Technical Resources Jason Dadakis shared the following information:

- At least 71 of the 198 drinking water wells in north Orange County would exceed the new proposed response level for PFOA and be taken out of service, impacting water sources for 2.5 million people.
- Capital costs to treat these 71 sources with well head treatment are estimated at \$200 million.
- Annual operating and maintenance costs for that well head treatment is estimated at \$15 million annually.
- Alternatively, replacing those 71 sources with treated imported water supplies from Metropolitan Water District is estimated at \$50 million annually.

Mesa Water will continue to provide local, reliable, high quality drinking water. Staff will continue to monitor the issue and report any developments that may impact Mesa Water in the future.

FINANCIAL IMPACT

None.

ATTACHMENTS

None.

REPORTS:

7. REPORT OF THE GENERAL MANAGER

REPORTS:

8. DIRECTORS' REPORTS AND COMMENTS



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MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Assistant General Manager
DATE: July 16, 2019
SUBJECT: Geographic Information System Support Services

RECOMMENDATION

This item is provided for information only.

STRATEGIC PLAN

Goal #2: Practice perpetual infrastructure renewal and improvement.

PRIOR BOARD ACTION/DISCUSSION

At its December 11, 2012 meeting, the Board of Directors (Board) approved a contract with RBF Consulting (a company of Michael Baker International) for \$95,500 to provide Geographic Information System Support Services.

At its August 8, 2013 meeting, the Board approved a change order with RBF Consulting (a company of Michael Baker International) in the amount of \$157,000 to provide Geographic Information System Support Services.

At its July 10, 2014 meeting, the Board approved a change order with RBF Consulting (a company of Michael Baker International) for a not-to-exceed amount of \$133,500 to provide Geographic Information System Support Services.

At its November 12, 2015 meeting, the Board approved change order #3 to Michael Baker International (MBI) in the amount of \$325,000 and revised the Geographic Information System Support Services project estimate to \$700,500.

DISCUSSION

Mesa Water District (Mesa Water®) has developed a versatile Geographic Information System (GIS) that is central to managing its infrastructure assets. GIS is used to provide as-needed maps of Mesa Water's assets. GIS also functions as the backbone for the hydraulic model, record drawings database, pipeline breaks database, pipeline integrity testing database, and demographic and parcel information database. The GIS is maintained by a consultant under the GIS Support Services contract. The contract term with the current GIS Support Services consultant expires in October 2019. Staff is developing a Request for Proposals (RFP) for GIS Support Services for Fiscal Years 2020-2025, with the option for two annual renewals. Key tasks in the RFP include the following:

- Hosting of GIS on secure servers
- Maintenance of GIS software licenses
- Staff access to GIS viewer via WebGIS portal
- Maintenance and upkeep of asset database
- Hydraulic modeling to evaluate water supply, system pressure, water velocity with pipelines, etc.



- Update of Potable Water and Recycled Water Atlas
- Development of specialized maps as needed

It is anticipated that staff will bring a recommendation for contract award for GIS Support Services to the September 17, 2019 Engineering and Operations Committee Meeting. The annual GIS Support Services contract budget is anticipated to remain at \$130,000 per year.

FINANCIAL IMPACT

In Fiscal Year 2020, \$130,000 is budgeted for GIS Support Services; no funds have been spent to date. Staff will include funds for GIS Support Services in the Proposed Fiscal Year 2021 – 2025 Budgets.

	<u>Project Estimate Amounts</u>	<u>Project Cost Amounts</u>
Initial Project Estimate (FY 2012)	\$ 95,500	
Original Contracts		\$ 95,500
Change orders		\$ 635,500
Requested funding		<u>0</u>
Revised Contracts		<u>\$ 731,000</u>
Actual spent to date		\$ 684,673
Revised Project Estimate	\$ 731,000	

ATTACHMENTS

None.



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MEMORANDUM

TO: Engineering and Operations Committee
FROM: Stacie Sheek, Customer Services Manager
DATE: July 16, 2019
SUBJECT: Zero Usage Accounts

RECOMMENDATION

This item is provided for information only.

STRATEGIC PLAN

Goal #3: Be financially responsible and transparent.
Goal #6: Provide outstanding customer service.

PRIOR BOARD ACTION/DISCUSSION

At its July 15, 2014 meeting, the Engineering and Operations Committee requested this report be provided on an annual basis.

DISCUSSION

To complete this annual report, staff extracted from the billing system the following:

- Installation dates greater than one-year
- Meter reads equal to zero
- Consumption equal to zero
- Accounts that are active

As of June 30, 2019, there are nineteen accounts that meet the above criteria. The date range for the nineteen accounts is from 2002 to 2019. During this time, the meters were regularly checked for proper functionality. As a standard Customer Services policy, these customers will be contacted to notify them of their zero consumption on the meter. Previous communication with zero usage account customers has determined that they are aware of the non-usage on the active meter and have typically elected to maintain the account as active. Staff will continue to provide annual updates to the Board of Directors regarding accounts having zero usage.

FINANCIAL IMPACT

None.

ATTACHMENTS

None.