



*Dedicated to  
Satisfying our Community's  
Water Needs*

**AGENDA  
MESA WATER DISTRICT  
BOARD OF DIRECTORS  
Tuesday, July 21, 2015  
1965 Placentia Avenue, Costa Mesa, CA 92627  
3:30 p.m. Special Board Meeting**

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**ENGINEERING AND OPERATIONS COMMITTEE MEETING  
Tuesday, July 21, 2015 at 3:30 p.m.**

**CALL TO ORDER**

**PLEDGE OF ALLEGIANCE**

**PUBLIC COMMENTS**

**Non-Agendized Matters:** Members of the public are invited to address the Board on matters which are not on the Agenda. Each speaker is limited to three (3) minutes. The Board will set aside thirty (30) minutes for public comments.

**Agendized Matters:** 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 five (5) minutes.

**PRESENTATION AND DISCUSSION ITEMS:**

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

1. Well 9 Update

**ACTION ITEMS:**

2. OC-44 Pipeline Meter Replacement Project

**REPORTS:**

3. Developer Project Status Report
4. Mesa Water and Other Agency Projects Status Report
5. Water Quality Call Report
6. Committee Policy & Resolution Review or Development
7. Operations Department Status Report
8. Municipal Water District of Orange County Activities Update
9. Orange County Water District Activities Update
10. Ocean Desalination Projects (no enclosure)
11. Report of the General Manager
12. Directors' Reports and Comments

**INFORMATION ITEMS:**

13. Zero Meter Reads



*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.*

*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](http://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**



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## MEMORANDUM

TO: Engineering and Operations Committee  
FROM: Phil Lauri, P.E., Assistant General Manager  
DATE: July 21, 2015  
SUBJECT: Well 9 Update

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### RECOMMENDATION

This report is for information only. No action is recommended at this time.

### STRATEGIC PLAN

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

### PRIOR BOARD ACTION/DISCUSSION

On October 9, 2014, the Board received a presentation detailing the failure of the pump at Well 9.

On November 18, 2014, the E&O Committee received a presentation on the findings of the Well 9 evaluation, and recommendation to rehabilitate the well and replace the pump. The E&O Committee directed Staff to implement the recommendation.

On February 17, 2015, the E&O Committee received an information item summarizing the status of the procurement process for Well 9 Rehabilitation and Pump Replacement.

On March 30, 2015, the Board received notification via email from the General Manager that a contract had been executed with General Pump for Well 9 Rehabilitation and Pump Replacement.

On May 19, 2015, The E&O Committee received an update on the progress of Well 9 Rehabilitation.

### DISCUSSION

A successful brushing and acid cleaning rehabilitation of Well 9 was completed on May 5, 2015. A post rehabilitation video demonstrated that the Well 9 casing and screens appeared to be in excellent condition. Test pumping was initiated on May 28, 2015. Test pumping revealed that Well 9 was producing an unacceptable amount of sand, and was shut down for further investigation. Video investigation encountered material in the well starting at the top of the well screens at 350 feet below ground surface spanning to the bottom of the well.

A video investigation was performed to discover the source of the sand and determine the process and associated costs for repairing the well. The video investigation revealed that sand was entering the well from the camera tube port and secondary two- inch hole in the casing within the vicinity of the camera tube port. Camera tubes were regularly installed in earlier well designs to allow for periodic condition assessment of the well casings, screens, and pump assembly. It has since been learned that camera ports have been a source of well casing failure if not properly designed and installed. While the breach cannot be seen in the video, the video does show the location where the sand from the formation is entering the well. The cost proposal for repair of the breach via hydraulic swaging of a steel patch to seal the breach is approximately \$26,000.



It is estimated that approximately 200 cubic feet of filter pack and aquifer formation was air lifted and removed from the bottom of the well. Removal of the sand material from the well is required to either repair the well or abandon the well to Department of Public Health standards. Residual silt deposits are preventing a final evaluation of the lower well screens. An additional video investigation will be performed after the air lifting to investigate the condition of the lower well screens and to determine the sufficiency of the filter pack. A cost proposal to repeat the swabbing and air lifting to clean the screens and to perform the additional video of the screens has been requested.

A cost-benefit analysis is being performed by Carollo Engineers, Inc. (Carollo) to compare the cost of repairing Well 9 versus abandoning Well 9 in accordance with public health requirements and drilling and equipping a new Well 9B at the existing Well 9 site. Results of this analysis will be presented to the E&O Committee.

#### FINANCIAL IMPACT

A contract to rehabilitate Well 9 and procure and install a new pump was awarded General Pump for \$258,000 in FY2015. \$109,600 has been paid to date. Due to unforeseen field conditions that were not known at the time of bidding, it is estimated that \$140,000 in additional costs may be incurred to troubleshoot and repair Well 9, assuming no breaches in the well screen exist and adequate filter pack remains in place. The construction cost to drill and equip a new well is estimated at \$1.3 million.

#### ATTACHMENTS

None.



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## MEMORANDUM

TO: Engineering and Operations Committee  
FROM: Phil Lauri, P.E., Assistant General Manager  
DATE: July 21, 2015  
SUBJECT: OC-44 Pipeline Meter Replacement Project

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### RECOMMENDATION

Recommend that the Board of Directors award a contract to Jamison Engineering for \$412,923 and a 10% contingency for a not-to-exceed amount of \$454,215 to perform the OC-44 Pipeline Turnouts Meter Replacement Project (TO-2, TO-4, TO-5) and Santa Ana Vault and authorize the General Manager to execute the contract.

### STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.  
Goal #2: Practice perpetual infrastructure renewal and improvement.

### DISCUSSION

The OC-44 Pipeline conveys imported water to Mesa Water's service area from the Metropolitan Water District's East Orange County Feeder No. 2. The OC-44 pipeline has three existing turnout metering stations (TO-2, TO-4, and TO-5) in addition to a pressure reducing station (Santa Ana Station). These turnouts are used to provide Mesa Water's service area with imported water. As part of the 2014 Master Plan, it was determined that the three existing flow meters had reached the end of their useful life and needed replacement. The existing flow meters are V-Cone differential pressure meters manufactured by McCrometer. Meter sizes vary from 6-inches to 16-inches with a total of six meters. The condition assessment also determined that the twelve existing butterfly isolation valves, existing Cla-Val controllers, pressure transmitters, flow meter readouts and associated appurtenances located in the aforementioned turnouts also need to be replaced. The scope of the project also includes the replacement of one malfunctioning 16-inch butterfly valve in the Santa Ana Pressure Reducing Station.

Mesa Water® contracted with Michael Baker International (former RBF) to perform the meter replacement design. The project includes the installation of new magnetic flow meters, pressure gauges, pressure transmitters, instrumentation, control valve pilot systems, integration with SCADA, and recoating of existing piping and valves at TO-2, TO-4, and TO-5. The design also includes replacement of the existing 16" faulty isolation butterfly valve at Santa Ana Station,

The design and specifications for the OC-44 Meter Replacement Project was completed and put out to bid in June 2015. The engineering estimate for the Project was \$442,600. Seven prospective contractors (Pascal & Ludwig Constructors, R.C. Foster, J.A. Salazar Construction, Mike Bubalo Construction, J.R. Filanc Construction Company, Schuler Constructors, and Jamison Engineering) were contacted for a site visit (June 29, 2015) and requested to submit a bid for the aforementioned project. Five contractors (Pascal & Ludwig Constructors, J.R. Filanc Construction Company, Schuler Constructors, J.A. Salazar Construction and Jamison Engineering) attended the site visit. Bids closed on July 10, 2015, and four bids were received from the following contractors:



- Jamison Engineering (**\$412,923**),
- J.R. Filanc Construction Company (**\$463,453**),
- Schuler Engineering (**\$497,000**), and
- J.A. Salazar Construction (**\$528,000**)

The proposed project bids have been evaluated and found to be compliant with all the bid package requirements. Construction is scheduled to last 210 calendar days from notice to proceed. It is recommended that a not-to-exceed construction contract be awarded to Jamison Engineering for \$412,923 plus a 10% contingency for a not-to-exceed amount of \$454,215 to perform the OC-44 Meter Replacement Project.

#### FINANCIAL IMPACT

\$429,500 is budgeted in the FY 2016 Capital Budget.

#### ATTACHMENTS

None.

# DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2049	1527 Newport Blvd., 132,134,140 Industrial Way	60 Attached Live/Work Condos	<p>Permit issued 10/11/13. Preconstruction meeting held 11/4/13. Waiting for construction to start. Project started 11/18/13. Installed water main 1/2/14. Pressure test 900', 8" water main and chlorinate 1/16/14. Water line tested and turned on 2/11/14. Installed service for models 2/12/14. Inspection ongoing as work progresses. Relocated fire hydrant on 6/4/14. Requested current easement docs on 5/22/14 that matched plans. Reviewed, and made corrections on 5/27/14. Received revised easement docs on 5/28/14 and prepared staff report on 6/5/14 to accept easement. Awaiting Board acceptance of Grant of Easement at upcoming Board meeting on 7/10/14. Tested irrigation backflow on 7/2/14. Relocated fire hydrant on 6/3/14. Installed 4 meters for models on 6/5/14. Easements accepted by Board on 7/10/14. Installed 7 additional meters and boxes on 8/5/14. Inspected gravel base for additional meters on 11/5/14 ahead of placing meters. Phase of 5 meters installed on 11/6/14. Installed concrete pad around fire line on 2/4/15. Installed 8 - 1" meters 2/5/15. Installed 9 - 1" meters 5/27/15. Phased development project, construction and inspections ongoing. (6/5/15)</p>
MC 2065	1677 Superior	Tract Homes	<p>New plans received 2/27/14. Plans have been routed to other departments for plan review 3/11/14. Field investigation completed 3/17/14. Plans reviewed and sent for revisions 3/20/14. Mylars received, fees paid, and plans signed 5/5/14. Abandonment done and installed 800' pipe 6/30/14. Board accepted easement on 7/10/14 and meters set. Tested water line and tied into system on 7/28/14. Installed 18 - 1" meters on 11/20/14. Installed 6 - 1" meters on 6/5/15. Phased development project - Construction and inspections in progress. (7/9/15)</p>

# DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2076	2183, 2187, 2191 Miner St.	New Residential	Water plans are in process of being prepared by engineer. Plans received 3/19/14. Mesa Water comments sent 3/27/14. Revised plans submitted 4/2/14. Plan check complete 4/11/14. Calculated fees 4/18/14. Revised plan received 5/20/14. Plan check complete on 5/22/14. Received mylars 6/2/14. Fees paid on 8/5/14. Permit issued 8/26/14. Precon meeting held on 2/24/15. Installed 6 - 1" services on 3/31/15, and 6 - 1" meters on 4/8/15. Installed backflow and checked flow through 4/15/15. Phased development project - Construction inspection on-going (7/9/15)
MC 2083	2600 Harbor Blvd.	Orange Coast Cadillac	Plans received on 3/12/14. Initial comments sent to Engineer via email 3/27/14 and official plan check with check prints completed 4/24/14. Revised plans received from Engineer 4/27/14. Revised plans did not address comments. Comments sent back to Engineer 4/29/14. Revised plans received 5/9/14. Notified Engineer that plans need to include fireline improvements in addition to meter and service relocations. Engineer stated that the fireline improvements were still under design and a re-submittal would not be immediate. Awaiting revised plans containing fire line improvements. Checked status with Engineer on 8/7/14. Developer stopped by on 10/7/14 to ask about status and was reminded that Engineer has not yet submitted revised plans. Developer again stopped by on 10/30/14 and was reminded that Engineer is awaiting revised plans. Revised plans submitted 12/4/14. Coordinating with developer on plan check comments. Plans reviewed and ready for permit issuance. Water service agreement application for new service and payment voucher mailed to the developer. Fees paid on 5/27/15. Mylars signed on 6/25/15. (7/9/15)
MC 2094	Bristol/Campus Intersection	Meter Relocation at JWA Maintenance Building	Plan check fees paid 5/20/14. Plans reviewed and revisions sent to Engineer 5/20/14. Awaiting revised plans. Checked status with Engineer on 08/29/14. Revised plans submitted on 09/10/14. 2nd plan check complete 09/11/14. Revised plans received on 09/25/14 and approved for mylars. Mylars submitted and fees paid on 10/23/14. Permit and inspection checklist issued to Contractor on 10/28/14. Awaiting contractor to schedule inspection. Contractor informed Mesa Water that work is about to begin. (7/9/15)



# DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2095	2023-2027 Placentia	36 Condos	Plans received and fees paid on 6/3/14. Plans reviewed and discussed with Phil L and easement proposal denied. Plan revisions emailed to Engineer and discussed over the counter. Engineer inquired about master meter options. Mesa Water indicated that master meter option was not within Board policy. Direction to install meter manifolds sent to Engineer on 7/3/14. Engineer submitted completely revised plans on 8/19/14. 1st plan check comments (1st with complete revised design) issued on 8/21/14. Revised plans received on 9/4/14 and 2nd plan check complete on 09/9/14. Final plans submitted, reviewed, and approved for mylar printing on 09/9/14. Signed/stamped mylars received, forms signed, and fees paid on 10/2/14. Water service agreement signed and permit issued on 10/21/14. USA underground marking on 3/30/15. Awaiting request for inspection. (7/9/15)
MC 2103	2294 Pacific Ave	5 New Homes	Plans received and fees paid 7/15/14. Plan check complete and circulated on 7/24/14. Circulated plans received back to Plan Check on 7/31/14. Plan corrections sent to Developer and Engineer on 7/31/14. Followed up with Engineer on 08/29/14 regarding re-submittal of plans. Revised plans received 09/11/14 and 2nd plan check complete on 09/11/14. Revised plans emailed and approved for printing of mylars on 09/22/14. Mylars received and fees paid on 10/15/14. Mylars signed and permit issued on 10/23/14. Installed services and relocated existing services 12/22/14. Installed gravel base and 5 - meters and valve boxes on 2/24/15. Installed 5 - 1" meters 4/13/15. Awaiting inspection call for backflow installation and testing. (7/9/15)

# DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2104	55 Fair Dr.	Vanguard University Waterline Relocation	Plans received and fees paid 7/22/14. 1st plan check complete 7/29/14. Plan corrections sent to Engineer on 7/29/14. Revised plans submitted 08/19/14 and comments issued 08/19/14 regarding easement alignment. Check for construction fees, signed Grant of Easement form, and Quitclaim form submitted on 09/11/14. Final plans and easement exhibits received 09/23/14. Easement exhibits checked and comments issued on 09/25/14. Final easement exhibits received on 09/30/14. Grant of Easement and Quitclaim to be presented to Board at E & O Committee meeting on 10/21/14. Board accepted Grant of Easement and Quitclaim at the request of the University representative present at the meeting. Grant of easement and Quitclaim signed on 10/27/14. Precon meeting held on 10/28/14. Relocated and installed water main 11/18/14. Inspection visited site to check progress 5/27/15. Awaiting call for meter installation. (7/9/15)
MC 2118	220 E. 16th St.	Home Remodel (Complete Remodel)	Plans received and plan check fees paid 08/27/14. Plan check complete 8/28/14. Following plan check, and while awaiting corrected plans, inaccuracies in Mesa Water records were discovered, and inspector was requested to field verify the actual conditions. 2nd set of plans were revised to reflect actual conditions, and plan check finalized on 10/02/14. Mylars received and fees paid on 10/14/14. Permit issued on 10/21/14, and issued inspection checklist on 10/27/14. Mesa Water inspector reported no activity onsite 5/5/15. (6/5/15)
MC 2119	236 E. 16th St.	Home Remodel (Complete Remodel)	Plans received and fees paid 08/27/14. Plan check complete 8/28/14. Following plan check, and while awaiting corrected plans, inaccuracies in Mesa Water records were discovered, and inspector was requested to field verify the actual conditions. 2nd set of plans were revised to reflect actual conditions, and plan check finalized on 10/2/14. Mylars received and fees paid on 10/14/14. Permit issued on 10/21/14, and issued inspection checklist on 10/27/14. Mesa Water inspector reported no activity onsite 5/5/15. (7/9/15)

# DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2121	268 & 270 Palmer	Two Single Family Homes	Plans received and plan check fees paid 09/30/14 but plans missing a site plan showing improvements. Site plan received on 10/24/14. Plans reviewed and circulated for Dept. signatures on 10/30/14. Plan check comments issued to Developer on 11/13/14. Meeting with developer scheduled for 3/10/15. Second plan check complete, documents are currently in circulation with Mesa Water staff. Performed Site Pre-Survey on 4/10/15 to check for existing services. Third plan check returned to developer 4/23/15. Fourth plan check returned to developer on 5/21/15. Permit issued 6/22/15. 1 inch service installed 6/25/15. Installed 1 inch meter to new service and 1 inch meter replacing an existing 5/8 inch meter 6/30/15. (7/9/15)
MC 2125	2075 Placentia	14 New Homes	Plans received and fees paid 10/7/14. Plan check completed with all Dept. signatures on 10/16/14 and plan check comments issued to Engineer. Received revised plans 1/6/14. New revisions given to developer 1/12/15. Plan check completed and permit issued 2/9/15. Precon meeting held on 2/11/15. Precon meeting held on 2/11/15. Weld and hot-tap main 5/7/15. Installed 14 - 1" domestic meters and 1 - 1" irrigation meter on 6/4/15. Construction and inspections in progress. (7/9/15)
MC 2126	573 Victoria	37 New Homes	Plans received and plan check fees paid 10/7/14. Design of improvements found not to be satisfactory, and a meeting was held on 10/23/14 to discuss design alternatives. New meeting held on 2/6/15. Awaiting revised plans from developer. Revised plans submitted 4/6/15. Plans sent back for second revision 4/7/15. Plans currently in third plan check. (7/9/15)

# DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2130	789-795 Paularino	19 New Homes	Plans received and fees paid on 10/17/14. Plans reviewed on 10/28/14 and circulated for Dept. signature. Due to an existing private well nearby and discharge piping on site, staff has asked the Developer to have the well capped and the discharge piping removed prior to issuance of plan check comments. After Developer agreed to cap the well, plan check comments were issued to Developer on 11/20/14. Received revisions from developer on 1/8/15. Plans approved 2/3/15. PreCon meeting held 2/4/15. Installed 6 - 2" services on 2/13/15. Installed 19 - 1" services on 4/28/15. Installed 1 - 3/4" irrigation meter on 6/4/15. Flow through test completed on 7/6/15. Inspection ongoing as work progresses. (7/9/15)
MC 2134	2026 Placentia	15 New Homes	Plans received and fees paid on 10/30/14. Plans reviewed on 10/30/14 and circulated for Dept. signatures. Plan check comments issued to Engineer on 11/13/14. Received revised plans 1/6/14. Plan check completed and permit issued 2/9/15. PreCon meeting held 2/11/15. Inspection ongoing as work progresses. Main hot-tap performed on 5/5/15. Ran services on 5/7/15. 16-1 inch meters installed on 7/6/15. (7/9/15)
MC 2143	481 E 17th St	Fast5Express Car Wash (Commercial)	Plans received and plan check fees paid 12/30/14. Developer notified on 1/12/15 that the project will be redesigned and new plans submitted. Additional car wash data requested 1/13/15. Revised plans received 1/28/15. The car wash flow data received 2/3/15. Developer to provide construction cost to finalize payment voucher and water service agreement. Permit issued 3/24/15. USA called out on 6/3/15. 1 inch irrigation meter installed on 7/9/15. Awaiting developer to request inspection. (7/9/15)
MC 2149	1620-1644 Whittier Ave and 970 16th St	89 Single Family Homes	Plans received and plan check fees paid 2/2/14. Working with developer to receive more information about the floor plans and irrigation as of 2/3/15. Hydraulic model is being performed by RBF. Conceptual Plan Check Completed and returned to customer 4/20/15. Second plan check returned to customer on 5/1/15. Third plan check returned to customer on 5/21/15. Finalizing permit. (7/9/15)
MC 2150	1726 Superior Ave	Walgreens	Plans received and plan check fees paid 2/25/14. Plan check in progress. Second plan check returned to developer 4/7/15. Third plan check in progress. (7/9/15)

## DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2152	743 W. 20th St	4 Single Family Homes	Plans received and plan check fees paid 2/20/14. Plan check completed and permit issued 3/24/15. 2 - 1" services installed on 6/3/15. Abandoned old service on 6/11/15. (7/9/15)
MC 2162	3150 Harbor Blvd.	Raising Canes Chicken	Plans received and plan check fees paid 3/31/15. Fees paid on 5/15/15. Permit issued on 5/20/15. (7/9/15)
MC 2165	341 16th Place	2 Single Family Homes	Plans received and plan check fees paid 4/22/15. First plan check completed and returned to developer 4/30/15. Second plan check in progress. (6/5/15)
MC 2167	1550 Scenic	Tenant Improvement	Plans received and plan check fees paid 4/30/15. First plan check returned on 5/27/15. Second plan check in progress. (7/9/15)
MC 2168	650 Hamilton	24 Single Family Homes	Plans received and plan check fees paid 4/30/15. First plan check returned on 5/21/15. Plan check complete, awaiting fee payment. (7/9/15)
MC 2176	3059 Country Club Drive	Single Family Home - Addition	Plans received and plan check fees paid on 6/5/15 (7/9/15)
MC 2177	125 East Baker Street	240 Unit Apartment Complex	Plans received and plan check fees paid on 6/11/15. Waiting for additional information (7/9/15)
MC 2178	334 East 16th Street	2 Single Family Homes	Plans received and plan check fees paid on 6/12/15. Comments returned on 6/24/15. Waiting for resubmittal. (7/9/15)
MC 2181	250 Flower Street	Remodel	Plans received and plan check fees paid on 6/22/15 (7/9/15)
MC 2183	Esther Street - APN 426-284-18	Single Family Home	Plans received and plan check fees paid on 7/1/15 (7/9/15)
MC 2184	1670 Tustin Ave	Remodel	Plans received and plan check fees paid on 7/1/15 (7/9/15)
MC 2185	103 E 17th Street	Tenant Improvement	Plans received and plan check fees paid on 7/7/15 (7/9/15)
MC 2187	2245 Tustin Ave	Single Family Home	Plans received and plan check fees paid on 7/8/15 (7/9/15)

**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

**Project Title:** OC-44 Transmission Main Leak

**File No.:** MC 1977

**Description:** Replace damaged section of pipeline

**Status:** Notice of intent to issue permit was granted by California Coastal Commission on 3/14/13. Staff is working on preparing a plan to monitor the disturbed area. Requested RBF to review the Habitat Restoration Plan and provide recommendations 7/2/14. Working with RBF on developing Permit Application and CEQA documents for OC-44 repair and proposed slip-lining project (see below OC-44 Replacement and Rehabilitation Evaluation and Cathodic Protection Study MC 2034)

**Project Title:** Project Management Guidelines

**File No.:** MC 2043

**Description:** Develop Project Management Guidelines

**Status:** RFP released on 8/7/2013. Pre-proposal meeting held 8/14/13; 4 proposals received on 9/4/2013. Interviews held on 9/13/14. Consultant recommendation approved by E&O committee 9/24/13 and Board on 10/10. Kickoff meeting held on 12/18/13. Draft CIP guidelines received 2/6/14. CIP guidelines draft workshop held on 4/3/14. RFP Policy update workshop held 4/16/14. Updated Draft CIP guidelines received 4/15/14. Streamlined Draft CIP Guidelines delivered 6/17/14. Revised CIP Guidelines and CIP Project Management Plan templates received on 9/11/2014, and require an additional iteration. Updated CIP Guidelines presented at the February E&O Committee. Received CIP Guidelines manual. Developing CIP training materials for training of the Engineers in May 2015. Received first draft of Acquisitions PM Guidelines on 4/5/2015. Engineers received CIP Project Management training on May 14 and May 28. Revised draft Acquisitions PM Guidelines received on July 13, 2015 and is currently being reviewed.

**Project Title:** District Engineering Services for East Orange County Water District

**File No.:** MC 2051

**Description:** Provide District Engineering services to East Orange County Water District

**Status:** Sent draft RFP for consultant review for Master Plan Update and Feasibility Study for new water treatment plant on 11/6/13. Additional analysis to predict the cost of imported water in progress. RFP release approved by EOCWD Board on March 20, 2014. Final RFP Released May 2, 2014. Interviews of 4 proposers were held on June 5, 2014. Recommendation for the Master Plan and treatment plant study was awarded to Carollo Engineers and approved by EOCWD Engineering Committee on June 17, 2014. Interviews with candidate Project Managers held on September 4, 2014.

**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

Assisting EOCWD with 6 MG reservoir seismic analysis. Assisting with review of customer development projects. Staff supported kickoff of EOCWD Peter's Canyon Water Treatment Plan Feasibility Study and Master Plan Updates on September 24, 2014, and Master Plan Criteria Selection meeting on October 7, 2014. Scope of the project was changed to include condition assessment and recommendations for Peter's Canyon Reservoir. Project Workshop and Board Engineering Committee Meetings to review the Basis of Design and the Condition Assessment Plan were held on January 13, 2015. The draft Reservoir Evaluation, and Water System Condition Assessment were received on January 30, 2015. A workshop to review these documents and the Treatment Technology Evaluation was held on February 13, 2015 to prepare for Engineering Committee Meeting held on March 10, 2015. A workshop for EOCWD's Board was held on July 9, 2015, to present the proposed Capital Improvement Program.

**Project Title:** MWRP Finished Water Quality Polishing Project

**File No.:** MC 2039

**Description:** Enhance finished water quality water at the MWRP via Pilot Scale test

**Status:** Technical memo completed 4/13. Initiated bench test on 6/24/13. Draft bench test report received 8/5/13. Next steps are to refine dosing, perform a full-scale pilot test, and estimate design and construction costs. Notice to proceed on pilot test design given on 9/17/13. Full scale pilot test plan submitted to CDPH for approval 10/15/13. CDPH approved the plan 11/7/13. Carollo Engineers finalized construction plans and conducted pre-bid meeting 11/26/2013. Bids are due 12/12/13. Only one bid received. Carollo requested bids from additional contractors. Second bid received on 1/8/14. J.R. Filanc Construction, Inc. lowest bidder. Project kick off meeting took place on 2/24/14. Installation of the SBS Addition System is to be completed 3/14/2014. The Full Scale Pilot Start Up and testing started on March 19, 2014 and completed May 27, 2014. Report to be submitted on 7/3/2014. Meeting with Trussell Technologies to discuss staff comments held on 7/30/14. Meeting to review next phase recommendations held on 8/19/14. Revised Draft Final Report submitted August 27, 2014. Staff reviewed the Report and provided comments. The re-revised Draft Report submitted 10/9/14. Staff reviewed the report and recommended for approval continued operations of the full-scale polishing pilot until a permanent full-scale system can be implemented (E&O Committee meeting 10/21/14). Request for extension of the operation of the MWRP Water Polishing Project pilot testing past December 4, 2014 granted by DDW on November 11, 2014. Developing RFP for design of the permanent SBS addition system (2/6/15). RFP distributed 2/27/15 and proposals received 3/26/15. Selection interviews held on 4/9/15. Team Carollo/Trussell is proposed for the project. Proposal approved by E&O Committee 4/21/2015 and Board 5/14/2015. Contract with Carollo finalized 6/12/15 and the kickoff meeting held on 6/17/15. Design in progress. Preliminary Design Report due 8/6/15. (7/10/15)

## MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

July 2015

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

**File No.:** MC 2034

**Description:** Evaluate potential repair and replacement options

**Status:** Contract awarded to RBF Consulting 2/12/13. Kick-off meeting held on 2/21/13. TM 1, 2 and 3 reviewed by Mesa Water® and City of Huntington Beach. Revised TM 1 and 3 submitted 6/12/13. Final study report due 7/31/13. Staff requested RBF to perform hydraulic modeling and habitat assessment to supplement original SOW. A meeting with MWDOC, MET and RBF to analyze possible new service connections on the OC Feeder held on 6/25/13. Workshop to discuss TM's held on 7/2/13. Meeting to discuss PDR, permitting, work plan and design concerns held on 7/16/13. Draft PDR and final design scope proposal received 8/6/13. Hydraulic studies "Evaluation of MWD Water Supply Facilities" and "Analysis of Emergency Supply from OC-44 and OCF" received 8/8/13. Staff reviewed the PDR and Hydraulic Study reports and submitted comments to RBF 9/12/13. Received proposal for design of OC-44 Pipeline Rehabilitation Project 9/24/13. Proposal approved by E&O Committee 11/19/13 and by Board on 12/12/13. Staff prepared change order to RBF. Kick-off meeting held on 01/22/14. Project on progress. Outreach coordination meetings with project stakeholders took place on 2/14/2014. RBF is working with City of Newport Beach, County of Orange, and Irvine Company on receiving permits for surveying and geotechnical boring work. Orange County Health Care Permit issued 3/24/2014. Geotechnical boring conducted on 3/28/14. The county of Orange permit was issued April 7, 2014. Biological and Topographic Survey started in mid-April and will continue through the end of July. Scour analysis completed on May 29, 2014. Jurisdictional Delineation completed on 6/30/2014. Project progress meeting with RBF and City of Huntington Beach held on 7/2/14 to review environmental assessment and predesign requirements. The design of the pipeline rehabilitation started on 7/8/2014. 60% plans and specifications submitted for review 9/8/2014. Staff is coordinating with City of Huntington Beach and finalizing review of the design package. Initial Study and Mitigated Negative Declaration submitted 11/2/14. Staff is reviewing the submittal (11/6/14). 60% review meeting with City of Huntington Beach and RBF held on 12/1/14. Design in progress. 90% design submittal expected received on 2/5/15. Mitigated Negative Declaration will be brought to Board at future E and O Committee for consideration of approval. Notice of Intent (NOI) posted at County Clerk and State Clearinghouse on 1/29/15. Initial Study/Mitigated Negative Declaration (IS/MND) posted on Mesa Water® website and distributed to agencies/parties identified on distribution list on 1/29/15. Permit applications submitted to the regulatory agencies, legal notice posted in the Daily Pilot, and hard copy of IS/MND posted at front counter on 1/29/15 for public review. The review period concluded 2/27/15. Three comment letters received. Prepared written responses to the comments and held public hearing at the Board Meeting on 4/9/15. 90% design submittal comments sent back to RBF on 3/26/15. Additional questions from RBF analyzed in coordination with the City



**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

of Huntington Beach and comments provided to RBF on 6/1/15. Progress meeting with RBF and City of Huntington Beach held 7/1/15. RBF is working with the regulatory agencies on obtaining encroachment permits and/or certifications. On 7/16/15 the consultant is scheduled to meet with the US Army Corps of Engineers (USACE) to discuss initial comments and obtain additional directions. Due to USACE staff shortage the permit is anticipated to be issued in March, 2016. RBF is working with Regional Water Quality Control Board (RWQCB) on drafting the 401 Water Quality Certification for the project. It is anticipated to have the 401 Water Quality Certification approved in the last week of August, 2015. Comments to the California Department of Fish and Wildlife (CDFW) draft agreement are to be sent by RBF on 7/17/15. The CDFW permit is predicted to be issued on September 1, 2015. In mid-June, 2015 RBF provided response to the California Coastal Commission's (CCC) comments. It is expected to receive new comments from CCC in the late July, 2015 and the permit in mid-October, 2015. 100% design package expected to be submitted on 7/21/15.

**Project Title:** Well Automation and Rehabilitation

**File No.:**

**Description:** Rehabilitate all clear water wells and add remote control SCADA capabilities

**Status:** Design: RFP for Design Services released on 7/1/2014. Pre-proposal meeting held on 7/9/2014. 6 proposals received on 7/28/2014; interviewed 3 shortlisted firms on 8/6/2014. Recommendation to award contract to Carollo Engineers approved by E&O on 8/19/2014; Board approval requested on 9/11/2014. Project kickoff meeting held on 10/1/2014. Draft Permit plan received for review on 11/3/14. . Well Standardization workshop held on 11/21/14 to align on site layouts, chemical tank sizing, and instrumentation. Draft Preliminary Design Report received on 1/12/2015, and reviewed in workshops on January 21, 2015 and February 3, 2015, and March 3, 2015. 60% received on April 13, 2015. Meeting to resolve review comments scheduled for April 27, 2015.

Construction Management (CM) Services: Released and RFP for CM services on December 30, 2014 Preproposal meeting held on January 12, 2015. Four (4) proposals were received on January 26, 2015. Three proposers were interviewed on February 4, 2015, and the recommended Contract with RBF was approved by the Board on March 12, 2015.

60% design received on April 13, 2015. General 60% Design Review workshop held on April 27, 2015 and electrical/instrumentation review workshop held on May 11, 2015. Working on optimizing construction sequence. Electrical design workshop scheduled for June 25, 2015. 90% design submittal received on July 15, 2015. Contractor prequalification package sent to six (6) General Contractors on July 18, 2015, with a due date of August 17, 2015.

**Project Title:** Well 9 Evaluation- Change Order 1 to Well Automation and

**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

Rehabilitation project

**File No.:**

**Description:** Comprehensive cost/benefit evaluation and planning for Well 9

**Status:** Change Order 1 to Well Automation and Rehabilitation Project issued on 10/23/14 to provide comprehensive evaluation and recommendations for Well 9. Kickoff held on 10/24/14. OCWD provided requested aquifer information on 11/3/14. Evaluation recommended rehabilitation of existing Well 9 and placement of pump at 300' below ground to account for predicted aquifer drawdown levels at 500,000 AF overdraft. Design of rehabilitation and pump specification are in process. Change Order 2 issued to Carollo on 12/15/14 for Well 9 Design scope. Draft Well Rehabilitation design package and pump procurement design package were received on January 16, 2015. Draft combined Request for Bid (RFB) for well rehabilitation, pump procurement, and pump installation was received on February 3, 2015. The RFP was released to six recommended contractors on February 24, 2015. A job walk was held on March 5 with four contractors. Bid opening is held on March 16, 2015. Three bids were received. A contract was awarded to General Pump, the low bidder, on March 30, 2015. Pre-construction meeting was held on March 27, 2015. Well video to diagnose camera port damage conducted on April 1, 2015, and viewed on April 5, 2015. Well screens cleaned May 1-May 11, 2015. Well redevelopment and pumping tests planned for May 25-June 4, 2015. Well 9 progress report provided at May 19, 2015 E&O Committee meeting, and updated at July 21, 2015 E&O Committee meeting

**Project Title:** Two New Wells

**File No.:**

**Description:** New wells and real estate services to identify and acquire property

**Status:** Change Order to Well Rehabilitation and Automation approved at January 20, 2015 E&O to retain Carollo and subconsultant Geotechnical Consultants Inc. (GTC) to provide typical well site layout and hydrogeological investigation to identify promising locations for two new 2,000-gpm clear wells. Met with Real Estate Professionals on February 2, 2015, to discuss scope of work for well site property identification and acquisition. Met with OCWD Chief Hydrogeologist on March 24, 2015, to identify study area for new well sites. Gave Notice to Proceed to Real Estate company on May 4, 2015, and provided consultant report on preferred well site property characteristics. Real Estate consultant developed an advertisement postcard to describe the type of property needed, and sent it to over 1,000 commercial and industrial property owners in the study area. Three sites are under consideration.

**Project Title:** MWRF Parking Project

**File No.:** MC 2052

**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

**Description:** Conduct parking layout design

**Status:** Parking study prepared by Onward Engineering in November 2013. The Board approved alternative # 3 Parking Along the MWRP Frontage on Gisler Ave. on 3/15/2014. RFP for the parking design in consultants' review (11/6/14). RFP sent out to consultants 11/25/14. Proposals due 12/19/14. Interview with three consultants held on 1/7/15. Recommendation brought to January E and O for consideration of approval and will be brought to the Board on 2/12/15 for approval. Project approved 2/12/15. Kick-off meeting held on 2/19/15. Design in progress. 30% design submittal submitted 3/23/15. Staff met with C.J. Segerstrom and discussed concept and details of the proposed parking layout. Segerstrom verbally approved the project. City of Costa Mesa approved the concept and currently consultant is evaluating the landscape requirements with the City of Costa Mesa. E and O Committee accepted the conceptual design and provided comments on 5/19/15. The condition approval from Segerstrom received on 6/29/15. Staff is working with the designer (CivilSource) and City of Costa Mesa on addressing Segerstrom's comments. Design in progress (7/10/15).

**Project Title:** OC 44 Import Stations Flow Meter Replacement

**File No.:** MC 2088

**Description:** Provide design for replacement of Flow Meters in the OC 44 Import Turnouts No. TO-2, TO-4, and TO-5

**Status:** Task Order No. RBF-3 for preparing construction drawings, technical specifications, and bid documents for the flow meter replacements in the import turnouts No. TO-2, TO-4, and TO-5 issued to RBF Consulting on July 23, 2014. . 75% plans and specifications submitted for review 10/7/2014. Staff is reviewing the submittal (10/9/2014). The review comments returned back to the consultant 11/4/14. Design of new pressure gauges, pressure transmitters, and related improvements were added to the scope in December 2014. Design in progress. 90% design package submitted for review on 2/20/15. Working with consultant and CLA-VAL on reviewing the design (3/6/15).

100% design submitted on 3/10/15. The comments to the 100% design sent back to the designer 4/30/15. Final design package received on 5/27/15. Mesa Water® staff is reviewing the package and working with RBF on addressing final comments 6/8/15. Project solicited 6/17/15 and pre-bid walk held on 6/29/15. Bids opened on 7/10/15.

**Project Title:** Reservoir 1 and 2 Improvements

**File No.:** MC 2111

**Description:** Installation of gas flow meters at Reservoir 1 and Reservoir 2,

**Status:** Staff prepared Scope of Work and sent a request for quote to on-call

# MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

July 2015

Engineering consultant (As-Needed Design Consultant) to provide:

1. Design and specifications for installation of gas meters for Res 1, Res 2, and Well 5,
2. Evaluation and design of Res 1 Air Vent Covers and Roof Membrane, and design for replacement of Res 1 silencers. Request for quote sent out 3/5/15. Brady Engineers selected for the project. Kickoff meeting held on 4/7/15. 30% design package submitted 5/27/15. Designer is working on addressing the review comments and continuing the design (7/10/15). Well 5 gas meter moved into the well automation and rehabilitation project scope of work.

**Project Title:** Pipeline Testing Program

**File No.:** MC 2112

**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:** Identifying segments for FY 2015 non-destructive testing and arranging for excavation and removal of segments that tested below 70% remaining wall thickness in FY2014 non-destructive testing. Released a Request for Proposal for a consultant to administer the program and develop standard operating processes on February 6, 2015. Three proposals were received on February 26, 2015, and interviews conducted on March 4, 2015. A contract with RBF was approved by the Board on April 9, 2015. Kickoff meeting held on April 21, 2015. Project status meeting held on June 8, 2015. Draft deliverable of prioritization of asbestos concrete pipe (ACP) for non-destructive testing received on June 26, 2015. Draft deliverable with recommendations for non-destructive testing technologies for metallic pipe expected on July 24, 2015. Draft destructive testing plan expected August 21, 2015.

Echologics performed non-destructive testing of 3 miles of ACP from July 13-17, 2015. Report expected on September 17, 2015.

**Project Title:** Fall Protection Implementation

**File No.:** MC 2129

**Description:** Implement recommendations from Fall Protection evaluation.

**Status:** Developing project schedule and recommendations for procurement. Identifying qualified contractors for design-build for construction of guardrails and access gates. Developing scope of services. Job walk conducted on March 25, 2015, with Versatile Fall Protection to identify options for closing the fall protection audit findings. Initial recommendations and cost estimate received on April 8, 2015. Contract for implementation of fall protection recommendations signed with Versatile Fall

**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

Protection under General Manager's authority on July 7, 2015. Preconstruction meeting held on July 9, 2015. Initial project submittals expected on July 29, 2015. Project completion expected by October 7, 2015.

**Project Title:** MWRF Outreach Center

**File No.:** MC 2147

**Description:** Report on the feasibility of reconfiguring and potentially expanding the functional uses of the MWRF Operations and Administration Building to include a multi-purpose room and educational forum.

**Status:** Mesa Water® is coordinating with IBI Group (designer) on the feasibility of implementing an education and outreach center at the MWRF. Kick-off meeting was held on 6/1/2015. Program Requirement Questionnaire meetings were held on 6/9/2015 and 6/17/15. Program Report delivered to Mesa Water® for review on 7/7/2015.

**Project Title:** Mesa Water Main Office HVAC Study

**File No.:** MC 2171

**Description:** **Evaluate** the existing HVAC system and provide recommendations for improved efficiency and operations of the system.

**Status:** Mesa Water® is coordinating with Goss Engineering Inc. on signing the contract and obtaining insurance certificates.

**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

**Project Title:** MRWF SCADA and Backup Power Reconfiguration

**File No.:** MC 2172

**Description:** Reconfigure the existing power supply to include the SCADA server to the standby generator.

**Status:** Mesa Water® is coordinating with Brithinee Electric on signing the contract and obtaining insurance certificates. Original scope of work completed on June 26, 2015. Damaged Neutral Buss, discovered during the pre-construction meeting, scheduled to be replaced on July 27, 2015.

**Project Title:** Other Agency Project Coordination

**File No.:**

**Description:** Median construction in Placentia Ave. between Wilson St. and Adams Ave.

**Status:** Mesa Water 16" main runs 5' East of the street center line. Mesa Water® is coordinating with designer and City on design of necessary protection and root barrier for the water main. 85% design plans received on (12/22/14). Plan review in progress 1/8/15. Plan review comments sent to the City 2/6/15. Mesa Water® provided update comments to landscaping plans on 6/17/15. Mesa Water® continuing to coordinate with the City, Stivers and Associates, Inc., and City Designer on layout of project.

**Project Title:** Other Agency Project Coordination

**File No.:**

**Description:** Water main relocation in New Hampshire Ave. due to Greenville-Banning Channel Improvements by County of Orange.

**Status:** Relocation of 12" water main is required due to enlarged box culvert on Greenville-Banning Channel. Task Order No. RBF-2 issued to RBF Consulting on June 24, 2014 for design of the relocation. Mesa Water® is coordinating with County of Orange and RBF. Design in progress. Hydraulic analysis received from RBF 9/12/14 indicated that taking the New Hampshire pipeline out of service during construction of the Greenville-Banning Channel will have no adverse impacts on the distribution system (8/9/14). Mesa Water® is working with OCFCD on finalizing the cooperative agreement. E&O Committee approved the agreement 11/18/14. Pipeline relocation design package submitted to Mesa Water® on 1/31/15. Mesa Water® is coordinating with OCFCD and consultant to address final comments. Plans and specifications for the pipeline relocation completed 3/3/15 and forwarded to OCFCD on 3/5/15. A pre-construction meeting is scheduled for 7/21/15.

**MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT**  
**July 2015**

**Project Title:** Other Agency Project Coordination

**File No.:**

**Description:** Water main relocation due to proposed improvements at the Performing Arts Center.

**Status:** Mesa Water staff is coordinating with Pacific Arts Center and RBF (designer) on relocation of 12" water main. Coordination meeting with Performing Arts Center and RBF held on 8/5/2014. Additional information regarding the proposed type of trees and root barrier submitted on August 28, 2014. Submittal was received and comments provided. Revised submittal received on 10/6/14. Staff is reviewing the submittal and coordinating with RBF and Performing Arts Center (11/6/14). Project on hold due to C.J. Segerstrom's review until April/May 2015.

# Water Quality Call Report

## June 2015

**Date:** 6/24/2015  
**Source:** Phone  
**Address:** NA/Anaheim  
**Description:** Caller wanted to let us know he comes from Anaheim to get water 100 gallons at a time from water store Victoria/Harbor because he is concerned about hormones from the GWRS.

**Outcome:** Recommended contacting OCWD for full info/tour of the GWRS.

**Date:** 6/24/2015  
**Source:** Phone  
**Address:** 2846 Corvo Pl  
**Description:** Plumber called on behalf of the resident stating that the resident notices sulfur smell occasionally. Let them know we have had no other calls in that area.

**Outcome:** Offered to send a technician out to sample the water. Plumber will contact the resident and get back to us if needed.

**Date:** 6/25/2015  
**Source:** Phone  
**Address:** 2165 Raleigh  
**Description:** Customer concerned about bacteria at tap/refrigerator water filters.

**Outcome:** Explained routine distribution sampling testing and compliance. Encouraged customer to follow manufacturers' recommendations for filter maintenance.

**Date:** 6/30/2015  
**Source:** Phone  
**Address:** 1289 West Reef  
**Description:** Customer will be moving in to a brand new West Reef home at the end of July and wants to know if the water we serve is hard. She's originally from the east coast and notice the aesthetic effects of hard water here in Southern California. She wants to know what she can do to reduce the hardness.

**Outcome:** Explained to the customer that the water here, as with most of Southern



California, is moderately hard due to groundwater being higher in calcium and magnesium. It was explained that the water is tested extensively and meets all state and federal regulations. Provided information on the Division of Drinking Water home treatment device website in case she opts to put in a home treatment device, as we cannot recommend any specific brands.

**MESA WATER DISTRICT  
COMMITTEE POLICY & RESOLUTION  
REVIEW OR DEVELOPMENT**

**ENGINEERING & OPERATIONS COMMITTEE**

**Policy Assignments for 2015**

<b>Policy Name</b>	<b>Resolution</b>	<b>Date Adopted</b>	<b>Revision Schedule</b>	<b>Next Review</b>
Rules and Regulations for Water Services (will include review of meter capacity charges and easement procedures)	Resolution No. 1452	10/09/14	Review and update as needed	
Standard Specifications and Drawings	Resolution No. 1449	08/14/14	Review and update as needed	

Water Operations Status Report  
July 1, 2014 - June 30, 2015

Operations Department Status Report	Wk Unit	Plan Days	Act Days	Plan Qty	Act Qty	Plan Cost	Actual Cost
<b>01 - HYDRANTS</b>							
101 - HYDRANT MAINTENANCE	HYDRANTS	169	148	3383	2979	\$144,723	\$112,135
102 - HYDRANT PAINTING	HYDRANTS	13	13	423	340	\$10,585	\$9,320
103 - HYDRANT REPAIR	HYDRANTS	52	54	60	62	\$55,748	\$50,958
104 - DAMAGED HYDRANT	HYDRANTS	0	37	0	26	\$0	\$45,604
<b>Program 01 TOTAL</b>		234	252			\$211,056	\$218,017
<b>02 - VALVES</b>							
201 - DISTRIBUTION VALVE MAINTENANCE	VALVES	52	51	1105	978	\$44,806	\$42,441
202 - NIGHT VALVE MAINTENANCE	VALVES	0	0	1	0	\$0	\$0
203 - REPLACE VALVE BOX	BOXES	25	8	30	11	\$23,595	\$6,288
<b>Program 02 TOTAL</b>		77	59			\$68,401	\$48,729
<b>03 - METERS</b>							
301 - NEW METER INSTALLATION	METERS	10	20	51	225	\$27,044	\$64,484
302 - RAISE REPLACE METER BOX	BOXES	30	19	76	104	\$32,060	\$17,206
303 - METER LEAK INVESTIGATE/REPAIR	INV/REP	20	29	152	191	\$18,635	\$26,883
304 - METER FLOW TEST	TESTS	1	1	5	4	\$848	\$826
305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	60	81	120	153	\$61,177	\$64,773
306 - LARGE METER TEST/REPAIR - C	TESTS	9	7	60	29	\$20,970	\$5,481
<b>Program 03 TOTAL</b>		130	157			\$160,734	\$179,653
<b>04 - MAIN LINES</b>							
401 - MAIN LINE REPAIR	REPAIRS	72	39	12	18	\$68,972	\$32,614
402 - AIR VAC MAINTENANCE/REPAIR	AIR VACS	16	22	80	123	\$14,499	\$19,765
404 - DEAD END FLUSHING	LOCATIONS	6	0	278	0	\$4,203	\$0
<b>Program 04 TOTAL</b>		94	61			\$87,674	\$52,379
<b>05 - SERVICE LINES</b>							
501 - SERVICE LINE REPAIR	REPAIRS	55	51	14	21	\$54,942	\$42,968
502 - ABANDON SERVICE LINE	SERVICES	14	7	4	3	\$11,548	\$5,950
503 - RELOCATE SERVICE LINE	SERVICES	8	7	2	8	\$7,822	\$5,987
<b>Program 05 TOTAL</b>		77	65			\$74,312	\$54,905
<b>06 - CAPITAL</b>							
CAV - CAPITAL AIR VACUUM REPLACE	AIR VACS	3	0	5	0	\$4,380	\$0
CBI - CAPITAL BYPASS & METER INSTALL	REPLACE	26	0	2	0	\$34,751	\$0
CFH - CAPITAL HYDRANT UPGRADE	HYDRANTS	70	139	10	21	\$88,901	\$164,740
CHV - CAPITAL HYDRANT VALVE	VALVES	20	34	20	6	\$27,250	\$32,046
CLM - CAPITAL LARGE METERS	METERS	29	28	216	115	\$107,254	\$65,470
CMV - CAPITAL MAINLINE VALVE REPLACE	VALVES	69	150	15	29	\$92,026	\$144,986
CSL - CAPITAL SERVICE LINE REPLACE	SERVICES	25	6	10	1	\$28,650	\$5,221
CSM - CAPITAL SMALL METERS	METERS	75	128	1394	1209	\$163,078	\$169,139
CSS - CAPITAL SAMPLE STATION REPLACE	STATIONS	10	11	10	9	\$11,148	\$9,291
<b>Program 06 TOTAL</b>		327	496			\$557,438	\$590,893
<b>TOTAL</b>						\$1,159,615	\$1,144,576



*Dedicated to  
Satisfying our Community's  
Water Needs*

## MEMORANDUM

TO: Engineering and Operations Committee  
FROM: Phil Lauri, P.E., Assistant General Manager  
DATE: July 21, 2015  
SUBJECT: Municipal Water District of Orange County Activities Update

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### RECOMMENDATION

This report is for information only. No action is recommended at this time.

### STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.  
Goal #3: Be financially responsible and transparent.

### PRIOR BOARD ACTION/DISCUSSION

None.

### DISCUSSION

This report on Municipal Water District of Orange County (MWDOC) issues is intended to brief the Committee and Board on activities relevant to Mesa Water District (Mesa Water®). The first section, "On-Going Issues," is a status update on current studies, reports, and/or policy work groups that staff are involved with. The second section, "Last Month's Issues," is a report on noteworthy items that were covered at the last month's MWDOC Board and Committee meetings. The last section, "Upcoming Issues," is a preview of new and forthcoming issues important to Mesa Water. This format is intended to keep the Committee and Board informed about current and future items at MWDOC in order to provide direction to staff and its MWDOC representatives in a timely manner, if required.

### ON-GOING ISSUES

The Colorado River: The Lifeblood of the Southwest – Bill Hasencamp from Metropolitan Water District gave a presentation on the history of the Colorado River water supply sources.

### LAST MONTH'S ISSUES

- **Property Tax Survey:** Mesa Water District General Manager, Paul Shoenberger, informed the Committee that Mesa Water® has hired the services of SCI to conduct a poll within Mesa Water's service area to see if there is support for large water projects to be put on the tax rolls. If this innovative method of financing the Huntington Beach Desalination Project were utilized it would keep the RA down and would only add approximately \$39.00/year to each parcel in OC's tax. SCI has a 90% success rate. The poll will ask residents if they could support an increase between \$29-\$89/year. General Manager Shoenberger said that Mesa Water® will share the results of the poll in August 2015.
- **Urban Water Management Plan Update:** MWDOC provided an update on the RFP for the Urban Water Management Plan for 2015. Two proposals were received and are currently



under review. Once a firm is selected, agencies can decide if they would like to opt-in or opt-out of this “choice” program. Also, a requirement of the 2015 UWMP requires an agency to conduct a water loss audit. There will be a meeting (hosted by Huntington Beach Utilities) on August 4<sup>th</sup> to discuss the need for and see if the group is interested in MWDOC sending out an RFP for joint studies.

- **Turf Removal Program Funding & Implementation:** MWDOC indicated that MWD’s Board has increased the conservation budget to \$450M with the majority of the funding going to the turf removal program. Funding is expected to be exhausted within the next two weeks due to the program’s popularity. Once funding runs out, no new applications will be received. About \$16M is slated for funding “devices” and there is still funds in that account available for rebates.
- **MET water Supply Update (SWP & CRA):** MWDOOC stated that runoff was at 49% of normal. It is estimated that SWP allocations will be set between 22-24%. Recent heavy rain events on and near the Colorado River will help with water supply deliveries. Lake Mead is at its lowest point ever recorded. It is expected to reach its shortage trigger level of 1.074 acft in the coming weeks. However, a shortage is not expected to be declared this year because releases from Lake Powell should bring Lake Mead back-up above the shortage trigger before the end of the year.
- **Drought Messaging & Value of Water:** MWDOC will release a new 30 second Public Service Announcement (PSA) on bus shelters and bus decals in July. MWD will begin their new PSA’s on July 5<sup>th</sup>. These will highlight a red spigot with phrases like “Now it’s your Turn” and “Every drop we save helps – it’s a community effort”. MWD and MWDOC’s messages can be customized for each individual agency by adding its logo.
- **FY 15/16 Choice School Program Update:** MWDOC indicated that the goals were met for last year and that each agency participating in this program should confirm its numbers for FY 15/16. Agencies need to respond by July 1<sup>st</sup>, on funding for grades 1<sup>st</sup> – 6<sup>th</sup>, High Schools and Digital Program & Teachers for Grades 9<sup>th</sup> – 12<sup>th</sup>. Agencies can add to any effort if their budget allows.
- **State Water Resources Control Board (SWRCB) Issues:** MWDOC staff shared a memo highlighting activities that should be monitored. These items include: the Boards interest in conservation price signals that can be improved to be consistent with Prop 218; IRWD & EMWD Legislative Proposal for Tiered Water Rates; and the PUC Hearing on Water/Energy Nexus. There was also a long discussion on the fact that the SWRCB is not aware of what Orange County has accomplished through the GWRS and continue to do with regards to water conservation.

## UPCOMING ISSUES

- Emergency Drought Regulations



- MET – Integrated Resource Planning
- Local Resource Planning - Desalination

#### FINANCIAL IMPACT

There is no financial impact.

#### ATTACHMENTS

None.



*Dedicated to  
Satisfying our Community's  
Water Needs*

## MEMORANDUM

TO: Engineering and Operations Committee  
FROM: Phil Lauri, P.E., Assistant General Manager  
DATE: July 21, 2015  
SUBJECT: Orange County Water District Activities Update

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### RECOMMENDATION

This report is for information only. No action is recommended at this time.

### STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.  
Goal #3: Be financially responsible and transparent.

### PRIOR BOARD ACTION/DISCUSSION

None.

### DISCUSSION

This report on Orange County Water District (OCWD) issues is intended to brief the Committee and Board on activities relevant to Mesa Consolidated Water District (Mesa Water®). The first section, "On-Going Issues," is a status update on current studies, reports, and/or policy work groups that staff are involved with. The second section, "Last Month's Issues," is a report on noteworthy items that were covered at the last month's OCWD Board and Committee meetings. The last section, "Upcoming Issues," is a preview of new and forthcoming issues important to Mesa Water®. This format is intended to keep the Committee and Board informed about current and future items at OCWD in order to provide direction to staff and its OCWD representatives in a timely manner, if required.

### ON-GOING ISSUES

**Discharging Distribution System Flushing Water into the OCSD Sewer System:** Based on recent discussions, the OCSD appears to be willing to waive or significantly lower the cost to discharge system flushing water into the sewer during the drought. About 60% of Producers are interested in the scenario and all producers support the concept. Chairman Shoenberger will send a letter to the General Manager at OCSD on behalf of the Producers supporting this effort.

**OCSD Monthly Flow Report:** The total flow into OCSD is currently down. Flow to Plant 1 is only at 110 mgd and GWRS needs approximately 125 mgd to produce 100 mgd of GWRS water. Understanding the low flow concerns, OCSD was able to move some water from Plant 2 to Plant 1 to help in the effort.

**GAP Project Overview:** The debt service will soon be paid-off and the MWD LRP will expire soon. OCWD indicated the need to decide if GAP is going to remain in service. If it is to remain in service a determination will need to be made on how long it will be in service or whether the water should go to GWRS for injection; or alternatively, should the current GAP system be served by GWRS from the microfiltration treatment and the GAP treatment plant be shut down? Currently,



GAP produces about 6.7 MGD in the summer and 1.2 MGD in the winter months. There are approximately 100 customers at this time. OCWD will no longer reimburse for new hookups. The City of Newport Beach has requested a letter from OCWD on the district's commitment to providing recycled water. The City of Huntington Beach is looking into the use of GAP water. General Manager Markus said staff will be looking into these issues over the next 12 months.

**Drought Grant Contract with the Santa Ana Watershed Project Authority (SAWPA) and Assignment Agreement with the Municipal Water District of Orange County (MWDOC):** Staff gave an update on the grant funding implementation contract between SAWPA and OCWD; and between OCWD and MWDOC. SAWPA was awarded a \$12.8M grant for water conservation for the purpose of reducing water demands. A major portion of the grant, \$7.6M, is slated for the development of conservation rate structures. Additional programs funded were web-based water conservation reporting, aerial mapping and a turf removal program for non-residential highly visible publicly owned landscape. Funds will flow from SAWPA to OCWD and from OCWD to MWDOC. After much discussion about project funding and the amount of "layers" of government involved, this item was moved for future consideration.

**Department of Water Resources Integrated Regional Water Management (IRWM) Grant Programs: Regional Acceptance Process:** Staff updated the Committee on Proposition 84 (The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006) which authorized \$5.3 billion to fund water, parks, and natural resource projects. \$1 billion of the funds were earmarked for integrated planning with specific allocations for each of the hydrologic regions of the state as identified in the California Water Plan. The Department of Water Resources (DWR) was designated to administer the Integrated Regional Water Management (IRWM) Grant Program. Proposition 1 authorized additional funding for IRWM programs, including \$63 million for the Santa Ana sub-region for "Regional Water Security, Climate, and Drought Preparedness". The Integrated Regional Management (IRWM) Planning Act, passed in 2008, (CWC Sec. 10530 et seq.) appropriated funding for the voter approved Proposition 84 bond measure, which defined the general content to be included in IRWM plans and provided guidance for DWR to develop an IRWM program. This included a process for a region to be formed, approved, and subsequently for that region to prepare an IRWM plan. Receiving a Proposition 84 grant became contingent on the forming of and acceptance by DWR of a region through a "Regional Acceptance Process". Once accepted, grant funding would be administered by the designated regional entity. The purpose of the IRWM program is to encourage collaborative efforts to manage all aspects of water resources within a region. SAWPA is acting as the IRWM. Director Dewane with support of the Committee requested that staff report on the possibility of OCWD applying to be an IRWM for future grants. This would help ensure that the funds come back to Orange County.

**Update on Proposition 84 Round 3 Watershed-Wide Grant Funding:** Staff updated the Committee on this program which is administrated by SAWPA. A major project includes a new 180,000 acre-feet water bank to be shared equally among the five agencies, non-native plant removal, support for water use efficiency, and funding for Santa Ana Sucker habitat restoration. The One Water One Watershed (OWOW) Steering Committee has recommended the project





receive \$55 million in Proposition 84 Round 3 funding. The water bank could store up to 180,000 acft in wet years for removal of 60,000 acft in dry years. The cost of the water is projected at \$1,141/acft and the grant would drop the cost by \$200/acft. OCWD would be entitled to 12,000 acft in dry years. This project has an estimated \$100M cost with a grant split of 55/45%. OCWD's funding share for this project, if approved, would be approximately \$9M.

**Endangered Species Act Issues in Prado Basin and Santa Ana Watershed:** Staff updated the Committee that in an effort to keep the Prado Dam elevation at 505' all year long, additional work has to be performed to help protect the Santa Ana River Sucker. Staff also noted that OCWD's past performance on Bird Habitat Restoration has proven very beneficial because OCWD has demonstrated to both the Federal and State government that their programs are sound and that OCWD is a good steward of the environment. This fish habitat project will remove sands within the watershed.

### **Groundwater Remediation Monthly Status Update:**

North Basin –

- Staff reported the USEPA is still processing the Lead Agency request and are having on-going discussions with all government agencies involved on control and institutional issues. OCWD is moving forward on equipping one well that has already been drilled. It is OCWD's desire to get beneficial use of this water by selling it to the large user. This well operation is outside the USEPA delay and is the first of 3 wells designed to remove the contaminated water.

South Basin –

- Staff reported that the Clean-up Action Plan is progressing. While the original plan was rejected by the Regional Board, a new plan will be submitted for approval.

MTBE –

- Nothing new to report regarding the MTBE case.

### **LAST MONTH'S ISSUES**

**Annual Santa Ana River Watermaster Report:** The Santa Ana River Watermaster, is a committee of a 5 member organization representing four agencies (Inland Empire, San Bernardino, Western Municipal and Orange County Water District) stemming litigation in 1969. The organization monitors flows to ensure that obligations are being met and that these agencies are receiving the average annual adjusted base flow 42,000 afy. OCWD's receipt of more flow results in a credit to the upper watershed that accumulates over time. The current credit is 3,474,674 which reduces the adjusted base flow to 34,000 afy. For the FY 2013-14 the Santa Ana River flows were 69,784 afy and the obligation was met.

**FY 15-16 Producers Chairman/Vice-Chairman Election:** Elections were held and Paul Shoenberger was nominated for his 3<sup>rd</sup> term. He was reelected without opposition. Brian Ragland



from Huntington Beach was also nominated and reelected as Vice-Chair.

**Agreement to Tetra Tech Inc. for Mid-Basin Injection: Centennial Park Project Design**

**Services:** Staff updated the committee on this project which when completed will have drilled and outfitted a total of (5) new injections wells. One well has been completed and this design agreement is for the remaining (4) wells and associated site work.

**Contract NO. SG-2014-1: Sunset Gap Seawater Intrusion Investigation Project: Amendment to Services Agreement NO. 0958 with CDM Smith and Agreement to Ninyo & Moore for Geotechnical Investigation:**

Staff updated the committee on this project which will drill and outfit (6) new monitoring wells and destroy (3) old monitoring wells in the Sunset Gap area. All (3) wells have been destroyed and (4) new wells have been drilled; there are two final wells that still need to be completed. Ongoing issues with the driller has resulted in delays in completing the required scope of work and caused additional inspection fees. Additional funds were requested for CDM's continued oversight of the project. The Board approved the agreement.

UPCOMING ISSUES

- Groundwater Management
- Poseidon
- North/South Basin

FINANCIAL IMPACT

There is no financial impact.

ATTACHMENTS

None.

There are no support materials for this item.

**REPORTS AND INFORMATION ITEMS:**

11. REPORT OF THE GENERAL MANAGER:

**REPORTS AND INFORMATION ITEMS:**

12. DIRECTORS' REPORTS AND COMMENTS:



*Dedicated to  
Satisfying our Community's  
Water Needs*

## MEMORANDUM

TO: Engineering and Operations Committee  
FROM: Stacie Sheek, Customer Services Manager  
DATE: July 21, 2015  
SUBJECT: Zero Usage Accounts

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### RECOMMENDATION

This item is for information only.

### STRATEGIC PLAN

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

### PRIOR BOARD ACTION/DISCUSSION

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

### DISCUSSION

To complete this annual report, staff queried the billing system with the following criteria:

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

Using the above criteria, as of July 13, 2015 there are 12 accounts within the parameters. The date range for the 12 accounts is from 2002 to 2013. During this time, the meters are 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 these types of customer has determined that customers are aware of the non-usage on the active meter and have elected to maintain the account as active. Additionally, staff will provide annual updates to the Board regarding accounts having zero usage.

### FINANCIAL IMPACT

There is no financial impact.

### ATTACHMENTS

None.