



*Dedicated to
Satisfying our Community's
Water Needs*

**AGENDA
MESA WATER DISTRICT
BOARD OF DIRECTORS
Tuesday, August 15, 2017
1965 Placentia Avenue, Costa Mesa, CA 92627
3:30 p.m. Special Board Meeting**

**ENGINEERING AND OPERATIONS COMMITTEE MEETING
Tuesday, August 15, 2017 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.

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 or Development
5. Water Operations Status Report

PRESENTATION AND DISCUSSION ITEMS:

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

None

ACTION ITEMS:

6. On-Call Pipeline Construction Services
7. Water Vending Machine Messaging

REPORTS:

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



INFORMATION ITEMS:

10. Valve Replacements

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 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. 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 at Whittier, Newhall, and West 16th Street and 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 and 9/8/16. Rock base and meters installed on 11/3/16. Flow-thru check on 12/1/16. Flow-thru check on 4/5/17. Meters installed on 5/31/17. (8/7/17)
MC 2177	125 East Baker Street	240 Unit Apartment Complex	Concept plans received and plan check fees paid on 6/11/15. First plan check comments returned on 7/31/15. Second plan check returned on 8/20/15. Third plan check submitted on 10/8/15. Additional information provided on 10/28/15. Hydraulic model initiated on 11/5/15. Additional information requested on 12/28/15 and information was provided on 1/4/16. Hydraulic model completed on 3/1/16. Adjacent supporting Mesa Water system improvements are not required. Revised plans submitted on 4/6/16. Final mylars and payment received and permit issued on 5/4/16. Permit issued on 5/10/16. Precon held on 5/24/16. Abandoned water connections on 6/28/16. Installed hydrant, domestic, and fireline tap on 7/7/16. Abandoned 2 services on 7/27/16. Installed 1 fire hydrant on 8/1/16. Pipeline lateral installed on 10/5/16. Backflows tested on 10/24/16. Turned on mainline on 11/18/16. Site visit on 3/14/17, construction of parking garage and apartment complex in progress. Irrigation meters will be installed near project completion. (8/7/17)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC 2196	580 Anton Ave	250 Unit Apartment Complex	Plans received and plan check fees paid on 7/28/15. Plan check comments returned 8/28/15, requesting information to complete a hydraulic model. Requested information provided on 10/25/15. Hydraulic model initiated on 11/5/15. Hydraulic model completed on 2/1/16. Mesa Water system improvements are not required. Fees paid and permit issued on 2/9/16. Pre-con held on 2/29/16. Abandoned waterline on 3/15/16. Shutdown test on 7/19/16. Valve replaced on 10/3/16 to allow for abandonment. Pressure test and backflow placement on 3/6/17. Bac-t test on 3/18/17. (8/7/17)
MC 2204	1672 Placentia	31 Single Family Homes	Plans received and plan check fees paid on 8/26/15. Plan check picked up by customer on 10/6/15. 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 on 6/5/17. (8/7/17)
MC 2208	353 & 355 Rochester St.	2 Single Family Homes	Plans received and plan check fees paid on 9/22/15. First submittal picked up on 10/23/15. Second plan check submitted on 11/19/15. Second plan check completed 12/3/16. Second plan check picked up from counter on 2/29/16. Third plan check submitted on 3/14/16. Fees paid and permit issued on 11/4/16. Pre-con held on 8/2/17 (8/7/17)
MC2232	189-191 Merrill Place	2 Single Family Homes	Plans received and plan check fees paid on 2/1/16. Plan check completed on 2/12/16 and picked up on 2/29/16. Second plan check received on 3/10/16. Fees paid and permit issued on 5/8/17. Meters installed on 7/22/17. (8/7/17)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC2233	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 coordination meeting on 7/26/17. (8/7/17)
MC2235	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. Valve cans raised on 6/16/17. (8/7/17)
MC2236	527-531 Bernard Street	10 Single Family Homes	Plans received and plan check fees paid on 2/8/16. Plan check returned on 2/12/16. Second plan check received on 4/21/16. Fees paid and permit issued on 6/13/16. Manifold installed on 7/19/16. Meter placement on 5/18/17. (8/7/17)
MC2240	222 E 15th Street	Meter Upgrade	Plans received and plan check fees paid on 3/25/16. Plan check picked up on 4/20/16. Fees paid and permit issued on 5/10/16. Meter installed on 6/13/16. Flow thru test on 7/5/17. Flow thru test failed, awaiting reschedule. (8/7/17)
MC2243	165-171 22nd Street	2 Single Family Homes	Plans received and plan check fees paid on 4/20/16. Plan check picked up on 5/17/16. Fees paid and permit issued on 11/18/16. Water service installed on 12/1/16. Rock base installed on 1/3/17. Meters installed on 4/5/17. Relocate service and meter outside of driveway on 8/1/17. (8/7/17)

DEVELOPER PROJECT STATUS REPORT

PROJECT STATUS - DEVELOPER PROJECTS			
FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
MC2245	522-526 Bernard Street	10 Single Family Homes	Plans received and plan check fees paid on 5/11/16. Second plan check received on 6/10/16. Second plan check returned on 6/22/16. Permit issued on 7/11/16. Manifold installed on 7/19/16. Regular inspection site visit on 11/4/16 with no progress to report. Site visit on 5/4/17, homes in construction. (8/7/17)
MC2247	1808-1810 Pomona Ave	2 Single Family Homes	Plans received and plan check fees paid on 5/20/16. Second plan check received on 6/23/16. Second plan check returned on 7/11/16. Fees paid and permit issued on 7/28/16. Pre-con on 6/6/17. (8/7/17)
MC2252	1100 South Bristol Street	Ganahl Lumber	Plans received and plan check fees paid on 6/1/16. Hydrant flow test completed on 9/7/16. Final plan check completed and returned on 10/28/16. Fees paid and permit issued on 11/29/16. Pre-con held on 4/17/17. Potholing inspection on 5/8/17. Mainline installation on 6/6/17. Fireline installation on 6/29/17. Backflow tested on 7/13/17. (8/7/17)
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. Owner contact on 5/25/17, construction to begin in July 2017. (8/7/17)
C004-16-01	2073-2080 Tablelands Way	8 Single Family Homes	Plans received and plan check fees paid on 6/23/16. Resubmittal received on 7/29/16. Fees paid and permit issued on 8/24/16. Manifold installed on 9/27/16. Meters and backflows installed on 11/13/16. Meters installed on 5/31/17. (8/7/17)
C0005-17-01	22nd and Santa Ana	12 Single Family Homes	Plans received and plan check fees paid on 7/22/16. Plans returned on 8/3/16. Fees paid and permit issued on 9/28/16. Manifold installed on 11/2/16. Service abandonment on 12/7/16. Meter installation on 12/19/16. Meters installed on 3/15/17. Site visit on 6/16/17, homes under construction. (8/7/17)
C0006-17-01	155 Flower Street	2 Single Family Homes	Plans received and plan check fees paid on 8/1/16. Plans returned on 8/11/16. Fees paid and permit issued on 9/22/16. Service installation on 6/8/17. Meter installation on 7/3/17. (8/7/17)
C0006-17-02	163 Flower Street	2 Single Family Homes	Plans received and plan check fees paid on 8/1/16. Plans returned on 8/11/16. Fees paid and permit issued on 9/22/16. Service installation on 6/8/17. Meter installation on 7/3/17. (8/7/17)
C0008-17-01	410 Walnut Place	4 Single Family Homes	Plans received and plan check fees paid on 8/10/16. Plans returned on 8/24/16. Awaiting resubmittal. Fees paid and permit issued on 4/7/17. Service installation on 7/5/17. Meters installed on 7/13/17. (8/7/17)

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0010-17-01	1053 W. Wilson	2 Single Family Homes	Plans received and plan check fees paid on 8/30/16. Plans picked up on 10/4/16. Fees paid and permit issued on 11/18/16. Pre-con on 6/5/17. Meters installed on 7/11/17. (8/7/17)
C0011-17-01	587 Anton	Fire Line Backflow Relocation	Plans received and plan check fees paid on 9/8/16. Fees paid and permit issued on 4/10/17. Mainline installation on 4/25/17. Parking structure in construction, service is inactive and locked until the backflow is reinstalled at completion. (8/7/17)
C0012-17-01	2626 Harbor Blvd	33 Detached Condos	Plans received and plan check fees paid on 9/15/16. Plans picked up on 10/18/16. Plans submitted for second plan check on 12/6/16. Fees paid and permit issued on 3/24/17. Mainline turned on 5/8/17. Gravel base on 6/16/17. Meters installed on 7/26/17. (8/7/17)
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. (8/7/17)
C0013-17-01	2803 Royal Palm Drive	Fire Station	Plans received and plan check fees paid on 8/25/16. Plans picked up on 10/4/16. Plans resubmitted on 3/1/17. Fees paid and permit issued on 5/5/17. (8/7/17)
C0014-17-01	Segerstrom Center for the Arts	Water Main Relocation	Plans received and plan check fees paid on 10/19/16. Plans picked up on 11/5/16. Fees paid and permit issued on 2/16/17. Mainline placement on 4/7/17. Mainline tie-in on 4/19/17. Site coordination meeting on 7/3/17. (8/7/17)
C0015-17-01	548 Victoria Street	5 Single Family Homes	Plans received and plan check fees paid on 10/26/16. Plans returned on 11/9/16. Awaiting final fee payment. (8/7/17)
C0016-17-01	3101 Redhill	Commercial Building	Plans received and plan check fees paid on 11/22/16. Plans returned on 11/29/16. Meeting held with owner on 1/5/17. Fees paid and permit issued on 4/21/17. Lateral installed on 6/7/17. Meter installation on 6/30/17. Backflow test on 7/11/17. (8/7/17)
C0017-17-01	166 Rochester	2 Single Family Homes	Plans received and plan check fees paid on 12/7/16. Plans returned on 12/15/16 and resubmitted on 1/5/17. Fees paid and permit issued on 5/5/17. (8/7/17)
C0018-17-01	1951 Tustin	2 Single Family Homes	Plans received and plan check fees paid on 12/6/16. Plans returned on 12/7/16. Fees paid and permit issued on 4/13/17. (8/7/17)
C0019-17-01	535 Anton	Water Service for Lunch Area	Plans received and plan check fees paid on 12/29/16. Plans returned on 1/12/17. Fees paid and permit issued on 4/11/17. Hot-tap on 6/2/17. Meter installed on 6/22/17. (8/7/17)

DEVELOPER PROJECT STATUS REPORT

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FILE NO.	PROJECT ADDRESS	PROJECT DESCRIPTION	PROJECT NOTES/STATUS
C0021-17-01	2068 Maple Ave	4 Single Family Homes	Plans received and plan check fees paid on 1/13/17. Fees paid and permit issued on 4/21/17. Hot-tap on 5/31/17. Meter box installed on 6/28/17. (8/7/17)
C0022-17-01	330 E 17th Street	Bar/Lounge	Plans received and plan check fees paid on 3/22/17. Awaiting final fee payment. (8/7/17)
C0024-17-01	1989 Orange	Meter Upgrade	Plans received and plan check fees paid on 3/27/17. Fees paid and permit issued on 4/25/17. (8/7/17)
C0025-17-01	2053 Tustin	2 Single Family Homes	Plans received and plan check fees paid on 3/22/17. Awaiting final fee payment. (8/7/17)
C0026-17-01	326 E 16th Street	2 Single Family Homes	Plans received and plan check fees paid on 3/20/17. Awaiting final fee payment. (8/7/17)
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. (8/7/17)
C0028-17-01	400 Enclave Circle	Recycled Water Conversion	Plans received and plan check fees paid on 3/23/17. Plans picked up on 4/28/17. Fees paid and permit issued on 5/25/17. Pressure and shutdown test on 6/29/17. (8/7/17)
C0029-17-01	127 23rd St.	4 Single Family Homes	Plans received and plan check fees paid on 5/12/17. Fees paid and permit issued on 8/3/17. (8/7/17)
C0030-17-01	208 Camella Lane	New Home	Plans received and plan check fees paid on 5/12/17. Fees paid and permit issued on 5/25/17. (8/7/17)
C0031-17-01	235 Paularino Ave	Service Abandonment	Plans received and plan check fees paid on 6/5/17. First plan check returned on 6/22/17. Field verified service connections on 7/3/17. Fees paid and permit issued on 7/31/17. (8/7/17)
C0032-17-01	328 Cabrillo	Meter Upgrade	Plans received and plan check fees paid on 6/15/17. Awaiting final fee payment. (7/7/17)
C0033-17-01	353 E 18th Street	4 Single Family Homes	Plans received and plan check fees paid on 7/5/17. Fees paid and permit issued on 7/27/17. (8/7/17)
C0034-17-01	350 E 17th Street	Commercial Building	Plans received and plan check fees paid on 7/18/17. Plans returned on 7/27/17. Awaiting resubmittal. (8/7/17)

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

August 2017

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

File No.: M 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. 90% design submittal received on 2/5/15. 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 of Huntington Beach and comments provided to RBF on 6/1/15. Progress meeting with RBF and City of Huntington Beach

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

August 2017

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. The 401 Water Quality Certification was issued on 9/29/15. Comments to the California Department of Fish and Wildlife (CDFW) draft agreement were sent by RBF on 7/17/15. The CDFW permit is predicted to be issued in late October, 2015. In mid-June, 2015 RBF provided response to the California Coastal Commission's (CCC) comments. The comments from CCC were received in the late July, 2015 and the permit is expected to be issued in mid-November, 2015. Permit from Caltrans obtained on August 17, 2015. 100% design package submitted on 7/21/15. Scour protection evaluation and recommendations submitted on 11/5/15. The CDFW should be issued by 12/18/15. The USACE has indicated that their permit should be issued in mid-January 2016. 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 forward to all agencies, including 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 September, 2017. Project in progress.

Project Title: Well Automation and Rehabilitation

File No.: MC 2101

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

Status: Construction activities began at Well 5 on October 3, 2016 with demolition and well rehabilitation beginning in the first week. Video of Well 5 showed scale on the louvers, and potential failure of an unused sounding tube and a small area of the

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT
August 2017

louvers potentially requiring swage patches. Repair completed on November 29, 2016. Well 5 rehabilitation resumed on December 3, 2016. Well 5 chemical facility pad has been constructed and is awaiting a weather forecast of 8 days with no predicted rain to apply the chemical-resistant coatings to the concrete. Well 5 pumping development began on January 4, 2017, and produced fine sand at pumping rates above 1100 gpm. Repairs were made to Well 5, and test pumping performed in February showed acceptable well production over 2500 gpm with manageable sand. Construction is substantially complete at the Well 5 site. A start up planning meeting was held on March 29, 2017. Well 5 is running and producing good quality water. Construction of the Well 7 chemical facility is also substantially complete. Well 7 rehabilitation is complete, and test pumping shows production of 1,450 gpm. The Well 7 pump is expected to be installed the week of August 21, 2017, with startup planned for the following week. Construction of the Well 3 chemical facilities was begun in July 2017.

Project Title: Two New Wells

File No.: MC 2158

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 have been presented for evaluation. Also met with the Laguna Beach County Water District (LBCWD) Manager of Engineering and Operations on October 13, 2015, to discuss development of a jointly-owned well on property in Fountain Valley owned by LBCWD. An offer to purchase one site was presented to the property owner on November 16, 2016. The owner has not responded, and the offer time frame has expired. An offer for a different property was prepared and presented on January 6, 2016. Owner has decided to lease the property rather than selling. A third property is being evaluated by staff and OCWD for potential interference from the OCWD mid-basin injection. Travel time analysis results from OCWD showed that the property is inside the six month travel time window. A meeting was held on February 22, 2016, with OCWD and DDW to discuss the travel time analysis, and DDW determined that it would not issue a permit for a drinking water well at the site. A meeting with the City of Santa Ana Water Department was held to discuss the possibility of a jointly-owned well on a City of Santa Ana-owned site. An offer to purchase was presented to a property owner for an underutilized portion of a property

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT
August 2017

on May 4, 2016. The offer was rejected. A revised offer was submitted on June 7, 2016. The owner has decided not to sell the property. Staff is working with Voit Real Estate to identify and evaluate underutilized sites in the vicinity of the study area. One underutilized site on Sunflower Boulevard was considered but rejected for being only 200 feet from the current Well 9B site, which would add significantly to pumping costs at both sites. Another site near Bristol and St. Gertrude was considered, but rejected due to the cost of the property, its location adjacent to a residential area, and the cost of construction of two miles of pipeline to Mesa Water's service area. A purchase agreement for an industrial site at 4011 W. Chandler Avenue in Santa Ana was negotiated in January 2017. The purchase agreement includes a 45 day contingency period, escrow close date of March 31, 2017, and 18 month leaseback to the seller. The Phase 1 Environmental Site Assessment and Property Condition Assessment were received on February 23, 2017, and showed the site and property to be in good condition. The lease was executed on March 27, 2017, and escrow closed on April 5, 2017. A request for proposal for design services for the new well and pipeline was released in May 2017. An offer for a second new well site at 3120 S. Croddy, which would utilize the same water transmission pipeline as planned for the W. Chandler well site. A contract for purchase of 3120 S. Croddy was signed on July 6, 2017, and escrow opened on July 7, 2017 with a 45 day contingency period for property assessment. The Phase 1 Environmental Site Assessment and Property Condition Assessment were received and showed the site and property to be in good condition. Escrow is expected to close on September 1, 2017. The Seller has the option to extend closure until November 30, 2017.

Project Title: MWRF Parking Project

File No.: M 2052

Description: Conduct parking layout design

Status: Parking study prepared by Onward Engineering in November 2013. The Board approved alternative # 3 Parking Along the MWRF 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), Mesa Water's attorney, and City of Costa Mesa on addressing Segerstrom's comments. Staff is reviewing the Initial Study/Summary of Findings Report received on 8/3/15.

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

August 2017

Staff has addressed all Segerstrom's requests included in their 6/29/15 letter and prepared a response letter. Approved construction plans were received from the City of Costa Mesa on 12/29/15. The final bid package completed 3/15/16. Encroachment Permit Application submitted to the City on 3/6/16. Hold Harmless Agreement for the Installation of Off-Site Parking Improvements within Public Right-of-Way received on 5/4/16. Staff reviewed the Agreement and sent comments to the City of Costa Mesa on 5/27/16. City approved all revisions as proposed by Mesa Water® and sent the agreement for signature on 6/24/16. The Engineering and Operations Committee reviewed the Agreement at July 19, 2016 meeting and recommended Board approval. Board approval obtained on August 11, 2016. Agreement sent to the City for execution and recording on 9/7/16. Recorded Agreement received from the City on 10/19/16.

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; updated draft received on August 7, 2015. Draft deliverable with recommendations for non-destructive testing technologies for metallic pipe received on August 7, 2015. Draft evaluation of destructive testing laboratories and tests received on August 21, 2015; final report received on September 16, 2015. Echologics performed non-destructive testing of 3 miles of ACP from July 13-17, 2015. Draft report received on August 14, 2015; final report received on September 1, 2015. Based on the Echologics reports from 2013 and 2015, ten ACP segments were selected for sampling and destructive testing. Three ferrous material pipelines with a history of repairs were also selected for field sampling and destructive testing. Draft bid documents for field sampling received on October 16, 2015. Final bid documents were released to three on-call contractors on November 23, 2015, for bids. Pre-bid meeting was held on December 7, 2015 and attended by all three of the bidders. Three bids were received on December 16, 2015. All bids exceeded the budget and the General Manager's signing authority. An action item to approve a contract with the low bidder was approved by the Engineering and Operations Committee on January 19, 2016, and by the Board on February 11, 2016. Notice to Proceed with field sampling was given on

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

August 2017

March 7, 2016. An encroachment permit from the City of Costa Mesa was received on April 25, 2016. Field sampling began on May 16, 2016 and completed on June 28, 2016. Samples were shipped to MEIC Lab in Portland, Oregon, for destructive testing on July 7, 2016. Samples were received at MEIC on July 11, 2016. Lab results, including estimates of remaining useful life, were received on October 24, 2016. Non-destructive testing of the next 3 miles of ACP was completed on September 16, 2016, and the draft report was received October 1, 2016. All of the ACP and Cast Iron Pipe (CIP) showed less than 70% remaining wall thickness compared to its assumed original thickness. 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 was approved by the Committee on July 20, 2017. ACP test results were received on July 31, 2017. Results are being analyzed.

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. 60% design concepts are scheduled for submittal on 08/14/15. 100% concept design received on 09/29/15. Virtual rendering received on 10/6/15. Concept designs presented at the October Board Workshop. A follow-up planning session was held at the November Engineering and Operations Committee Meeting to capture the Board's input on evaluating reduced cost options and to revisit the existing Boardroom improvements. Board directed staff to develop a scope of work to evaluate scaled down layouts of the MWRF Outreach Center and revisit expanded layouts of the main Boardroom. Engineering and Operations Committee approved a contract amendment with IBI Group to reflect the revised scope of work. Item was approved by the Board February 11, 2016. IBI Group performed an inspection of the existing Boardroom on February 25, 2016 and are in the process of developing conceptual layouts. Staff review and meeting occurred on April 11, 2016. Conceptual layout work has been completed.

Project Title: Mesa Water® Main Office HVAC Study

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT

August 2017

File No.: MC 2171

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

Status: Mesa Water® has contracted with Goss Engineering Inc. to perform this study. Kick off meeting was held January 13, 2016. Goss Engineering performed a field survey of both main campus buildings over the course of three days. Draft report with results and recommendations was reviewed by staff. The final report was delivered on June 30, 2016 and was reviewed by staff for completeness. Staff presented the findings and recommendation to the Board of Directors at the July E&O Committee Meeting. Board approved contract to move forward with the design of a complete Variable Refrigerant Flow system. Contract has been executed and returned to Goss Engineering. Project kick-off and notice to proceed was issued on November 30, 2016. 50% drawings have been delivered for review and comments returned. Stakeholder meeting was held on February 2, 2017 to provide comments for the new VRF system 50% design. 90% design drawings and specifications were submitted for Mesa Water® review on March 10, 2017. Bid package is currently being developed by the consultant. Proposals for roof design are currently being solicited.

Project Title: Reservoirs 1 & 2 Pumps, Controls, and Chemical System Assessment Project

File No.: MC 2173

Description: Evaluate the existing Pumps, Controls, and Chemical Systems at Reservoirs 1 & 2. The project includes lab testing of pump efficiency, physical assessment of pumps and pipework, assessment of the existing control system, and preliminary design of a chemical dosing system. Recommendations for improved efficiency and operations of the system will be included in a final report.

Status: Mesa Water® has contracted with Hazen & Sawyer to perform this study. Kick off meeting was held September 30, 2015. The consultant performed a field survey of both Reservoirs 1 & 2 over two days. A preliminary outline of technical memo 1 was provided on December 11, 2015. Initial data requests were responded to by December 7, 2015, with follow up responses provided on January 7, 2016 (SCADA Data) and February 9, 2016 (Jockey Pump Data). Pump testing scope of work has been reviewed by Mesa Water® and returned to the Consultant for revision. TM-1 has been reviewed by staff and returned to the consultant. Pump extraction plan and bid documents are currently being reviewed by staff. The Consultant has begun the preliminary design of a chemical dosing system. Request for bids for the pump extraction will be released in August 2016. Bids for the pump extraction were submitted and reviewed. The item was presented to the Engineering and Operations Committee at the September 20, 2016 meeting. Contract has been executed. Field assessment was completed on October 19, 2016. Factory pump testing scheduled in early January

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT
August 2017

2017. Further field tests conducted on December 2, 2016. Pump 2 from Reservoir 1 was removed and sent to the factory test facility on January 3, 2017. Factory testing was completed on February 27, 2017 with results aligning with the results obtained in the field. The pump has undergone a physical assessment and a refurbishment scope of work developed. The pump will be installed and operational on May 9, 2017. TM-2, TM-3, and PDR are being revised by consultant to address Mesa Water® comments.

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. Revised final plans submitted for Mesa Water® review on 11/19/15. Staff reviewed the submittal in cooperation with Mesa Water® landscape consultant (Stivers Associates) and submitted comments to the City Designer on 12/28/15. The comments have been accepted by the Designer and Final Plans were submitted on 2/9/16. New comments sent to the Designer on 2/18/16. The revised final plans received on 3/21/16 and approved by Mesa Water® on 3/31/16. On May 24, 2017 the City Designer notified Mesa Water® that the City was planning to advertise the project in the first half of June, 2017. City received bids at the end of June, 2017 and is taking the project to the City Council for approval on 7/18/17. The project is anticipated to kick off on 7/28/17 and construction start on mid-August, 2017 (8/3/17)

Project Title: Well 8 Demolishing Project

File No.: M 2219

Description: Prepare Well 8 demolishing plans and remove above-ground portions of the well and onsite facilities at the well facility to the scope and extent acceptable to the land owner Interinsurance Exchange of the Automobile Club of Southern California (the "Exchange") to return the site to its near original condition.

Status: Prepare Well 8 demolishing plans and remove above-ground portions of the well and onsite facilities at the well facility to the scope and extent acceptable to the land owner Interinsurance Exchange of the Automobile Club of Southern California (the "Exchange") to return the site to its near original condition.

Status: The Consultant has performed the required site Investigation and final design Services. In November 2016, the property owner assigned a project manager to work

MESA WATER® AND OTHER AGENCY PROJECTS STATUS REPORT
August 2017

with Mesa Water® to move the project forward. The Consultant provided a 90% design which was reviewed by Mesa Water®. On February 6, 2017, Mesa Water® staff met with the Exchange personnel and discussed the 90% plan review comments. The Exchange decided to use the facility as a gated parking for their equipment and thus requested that all underground and aboveground structures be removed and wells properly destructed. The comments were incorporated into the 100% design. Well 8 demolition was scheduled for early June and should take approximately 60 calendar days to complete. Received 100% construction plans on 4/19/17. Project sent out to bid (13 contractors) on 4/20/17. The pre-bid job walk held on 4/26/16. One bid received on 5/4/17. Board of Directors awarded a contract to RC Foster Corporation on May 16, 2017. The kick-off meeting took place on 6/15/17 and construction started on 6/20/17. The scope of project includes removal of the transformer with concrete pad and electrical system, CMU Control Building, two wooden sheds, 120 feet of 14" piping, two chemical injection vaults, Well 8 pump, 11 feet of Well casings (well 8 and two monitoring wells), filling the wells with concrete, backfilling and repaving. To date the contractor has demolished the aboveground structures, two underground vaults; removed 80 feet of 12" pipeline, transformer, well pump, 12" R/W valve in South Coast Drive, and filled Well 8 with cement-sand slurry Project in progress (8/3/17).

Water Quality Call Report

July 2017

Date: 7/13/2017
Source: Phone
Address: 2967 Harbor Blvd.
Description: Restaurant manager called to report brown water.

Outcome: Customer had begun flushing and the water had cleared up. He had also discovered a memo on the door indicating that their maintenance crew would be performing some plumbing maintenance and would be turning off the water. Customer was told to call back if he needed further assistance.

Date: 7/17/2017
Source: Phone
Address: 2400 Holiday Road, Newport Beach
Description: Customer asked if the tap water is safe to drink compared to bottled water because his neighbors think that only bottle water is safe to drink.

Outcome: Explained to customer that tap water meets all state and federal drinking water standards and is safe to drink. Customer expressed that he likes to drink tap water and he was satisfied with the call.

Date: 7/19/2017
Source: Phone/Visit
Address: 14850 Sunflower
Description: Customer called to report sulfur smell in the hot water.

Outcome: Customer's service line connects to a 12" dead-end mainline with low water use. Initial chlorine residual was low from the hose bib but after flushing, the chlorine residual was back to normal. Water from the nearby fire hydrant and air vac had low chlorine residual and odor was noticed. The fire hydrant and air vac were flushed to draw in fresh water with normal chlorine residual and no odor. A bacteriological sample was collected and analyzed. The negative total coliform result was communicated to the customer. It appears the customer has ongoing internal odor issue with their two water heaters while the cold water has no odor. They are working to resolve the internal odor issue.

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

ENGINEERING & OPERATIONS COMMITTEE

Policy Assignments for 2017

Policy Name	Resolution	Date Adopted	Revision Schedule	Next Review
Rules and Regulations for Water Services (will include review of meter capacity charges and easement procedures)	Resolution No. 1470	02/09/16	Review and update as needed	TBD
Standard Specifications and Drawings	Resolution No. 1449	01/12/17	Review and update as needed	TBD

Water Operations Status Report
July 1, 2017 - July 31, 2017

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	15	6	305	135	\$12,093	\$4,767
WD-0102 - HYDRANT PAINTING	HYDRANTS	2	1	38	19	\$1,079	\$910
WD-0103 - HYDRANT REPAIR	HYDRANTS	4	2	5	3	\$2,709	\$1,378
Program 01 TOTAL		21	9			\$15,881	\$7,055
02 - VALVES							
WD-0201 - DISTRIBUTION VALVE MAINTENANCE	VALVES	10	9	217	173	\$7,975	\$6,042
WD-0202 - NIGHT VALVE MAINTENANCE	VALVES	0	0	0	0	\$0	\$0
Program 02 TOTAL		10	9			\$7,975	\$6,042
03 - METERS							
WD-0301 - NEW METER INSTALLATION	METERS	2	2	11	17	\$4,077	\$8,599
WD-0302 - RAISE REPLACE METER BOX	BOXES	2	1	9	2	\$2,290	\$538
WD-0303 - METER LEAK INVESTIGATION/REPAIR	INV/REP	2	5	17	38	\$1,296	\$4,790
WD-0305 - ANGLE STOP/BALL VALVE REPLACE	REPLACE	6	8	12	16	\$5,616	\$6,080
WD-0306 - LARGE METER TEST/REPAIR - C	TESTS	2	2	11	4	\$1,616	\$1,200
Program 03 TOTAL		14	18			\$14,895	\$21,207
04 - MAIN LINES							
WD-0401 - MAIN LINE REPAIR	REPAIRS	11	11	2	1	\$8,928	\$8,902
WD-0402 - AIR VAC MAINTENANCE/REPAIR	REPAIRS	2	0	14	0	\$1,782	\$0
WD-0403 - UNIDIRECTIONAL FLUSHING	FEET			30788	0	\$0	\$0
Program 04 TOTAL		13	11			\$10,710	\$8,902
05 - SERVICE LINES							
WD-0501 - SERVICE LINE REPAIR	REPAIRS	5	17	2	7	\$3,950	\$13,424
Program 05 TOTAL		5	17			\$3,950	\$13,424
06 - CAPITAL							
CAP AV - CAPITAL AIR VACUUM REPLACE	AIR VACS	0	0	0	0	\$0	\$0
CAP BI - CAPITAL BYPASS & METER INSTALL	REPLACE	3	0	0	0	\$2,357	\$0
CAP FH - CAPITAL HYDRANT UPGRADE	HYDRANTS	18	12	3	2	\$21,228	\$13,329
CAP LM - CAPITAL LARGE METERS	METERS	5	1	12	1	\$14,194	\$1,073
CAP MV - CAPITAL MAINLINE VALVE REPLACE	VALVES	13	7	3	0	\$14,765	\$4,705
CAP SL - CAPITAL SERVICE LINE REPLACE	SERVICES	2	5	1	2	\$1,808	\$3,903
CAP SM - CAPITAL SMALL METERS	METERS	10	3	125	29	\$15,057	\$7,441
CAP SS - CAPITAL SAMPLE STATION REPLACE	STATIONS	0	0	0	0	\$0	\$0
Program 06 TOTAL		51	28			\$69,409	\$30,451
VACANT POSITIONS							\$0
TOTAL						\$122,820	\$87,081



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Assistant General Manager
DATE: August 15, 2017
SUBJECT: On-Call Pipeline Construction Services

RECOMMENDATION

Recommend that the Board of Directors approve contracts with GCI Construction, Inc., Paulus Engineering, Inc., and W.A. Rasic Construction Company, Inc. for \$150,000 per year for five years with two one-year renewal options for a not-to-exceed amount of \$750,000 to provide On-Call Pipeline Repair and Construction, and authorize execution of the contract.

STRATEGIC PLAN

Goal #1: Provide a safe, abundant, and reliable water supply.
Goal #2: Practice perpetual infrastructure renewal and improvement.
Goal #3: Be financially responsible and transparent.

PRIOR BOARD ACTION/DISCUSSION

At its March 14, 2013 meeting, the Board of Directors (Board) approved On-Call Pipeline Construction Services with Doty Bros., J.A. Salazar Construction and Supply, and Paulus Engineering, Inc. (Paulus).

At its April 9, 2015 meeting, the Board approved contract extensions with the three On-Call Pipeline Construction contractors through June 30, 2017.

At its June 20, 2017 meeting, the Engineering & Operations (E&O) Committee received an information item on the preparation of the Request for Bid for On-call Emergency Pipeline Repair and Construction.

DISCUSSION

The use of on-call pipeline construction contractors allows Mesa Water District (Mesa Water®) to react quickly to urgent operational events, such as pipeline breaks that require external personnel and equipment beyond Mesa Water crews' expertise (i.e., deep excavations and shoring, etc.). The on-call contractors are also an efficient resource to complete small projects that take away from traditional capital replacement work efforts performed by Mesa Water crews.

On-call pipeline work is assigned to contractors most readily available and capable of performing the work. Non-emergency capital replacement work is competitively bid on a project-by-project basis to the three pre-approved contractors to ensure cost effective pricing.

The current on-call pipeline construction contracts expired at the end of Fiscal Year 2017. Staff developed a Request for Bid for On-Call Pipeline Repair and Construction and released it on July 13, 2017, to 29 contractors recommended by staff from Mesa Water, Huntington Beach Water Department, Santa Ana Water Department, Fullerton Water Department, and Anaheim Water Department. All are licensed as General Contractors by the State of California and registered with



the Department of Industrial Relations as Public Works contractors. Six bids were submitted on August 3, 2017. A summary of the line item bid rates are as follows:

On call Pipeline Bid Line Items	Big Ben	Doty	Salazar	GCI	Paulus	Rasic
Prevailing Wage Rates						
Standard Labor rates (per hour)						
Two Person Crew	\$225.00	\$247.00	\$209.85	\$187.08	\$226.00	\$192.66
Three Person Crew	\$325.00	\$447.00	\$303.50	\$264.59	\$320.88	\$276.73
Four Person Crew	\$415.00	\$533.00	\$371.30	\$342.10	\$401.74	\$360.12
Each Additional Person	\$90.00	\$86.00	\$78.55	\$77.51	\$92.10	\$79.82
Additional Equipment Operator	\$130.00	\$110.00	\$109.80	\$106.46	\$101.13	\$110.09
Labor Class (Time & Half)						
Two Person Crew	\$335.00	\$324.00	\$279.05	\$250.25	\$319.78	\$256.09
Three Person Crew	\$490.00	\$561.00	\$398.65	\$353.01	\$460.63	\$367.53
Four Person Crew	\$550.00	\$677.00	\$520.80	\$455.78	\$581.91	\$473.90
Each Additional Person	\$135.00	\$116.00	\$104.60	\$102.77	\$136.15	\$105.16
Additional Equipment Operator	\$195.00	\$148.00	\$146.75	\$142.82	\$148.11	\$146.19
Labor (Double Time)						
Two Person Crew	\$450.00	\$400.00	\$348.20	\$313.40	\$412.57	\$319.53
Three Person Crew	\$650.00	\$676.00	\$493.75	\$441.43	\$600.37	\$458.32
Four Person Crew	\$860.00	\$822.00	\$616.70	\$569.46	\$788.16	\$587.66
Each Additional Person	\$180.00	\$146.00	\$130.75	\$128.03	\$184.20	\$130.50
Additional Equipment Operator	\$260.00	\$186.00	\$182.65	\$179.17	\$202.26	\$182.76
Equipment rate (per hour)						
Foreman's Truck	\$15.00	\$16.00	\$31.40	\$30.00	\$59.77	\$39.00
Crew's Truck	\$20.00	\$18.00	\$36.75	\$47.00	\$59.77	\$25.00
Backhoe	\$60.00	\$41.00	\$74.85	\$91.00	\$95.48	\$61.00
Backhoe w/Compactor	\$65.00	\$61.00	\$116.85	\$114.00	\$127.31	\$71.00
Excavator	\$85.00	\$160.00	\$61.95	\$113.00	\$190.95	\$115.00
Loader	\$55.00	\$61.00	\$61.60	\$90.00	\$140.03	\$85.00
Crane	\$200.00	\$60.00	\$525.00	\$139.00	\$332.10	\$120.00
Skip Loader	\$40.00	\$33.00	\$48.30	\$85.00	\$89.11	\$55.00
Water Truck	\$30.00	\$36.00	\$102.90	\$26.00	\$91.32	\$50.00
Concrete Saw & Truck	\$150.00	\$52.00	\$136.50	\$73.00	\$166.05	\$175.00
Dump Truck	\$95.00	\$92.00	\$103.96	\$100.00	\$121.77	\$85.00
Delivery Truck	\$30.00	\$25.00	\$89.25	\$29.00	\$83.03	\$25.00
Hand Operated Compactor (Wacker)	\$5.00	\$24.00	\$31.50	\$16.00	\$101.84	\$13.00
Asphalt Paving Machine	\$250.00	\$116.00	\$84.00	NA	\$553.50	\$170.00



Equipment rate (per day)						
Light Plant	\$85.00	\$125.00	\$367.50	\$126.00	\$332.50	\$200.00
Arrow Board	\$85.00	\$136.00	\$210.00	\$126.00	\$166.05	\$120.00
Message Board	\$200.00	\$174.00	\$262.00	\$172.00	\$498.15	\$120.00
Compaction Wheel	\$30.00	\$160.00	\$157.50	\$184.00	\$450.00	\$80.00
Air Compressor w/Jackhammer	\$250.00	\$207.00	\$262.50	\$287.00	\$356.45	\$200.00
Trash Pump	\$200.00	\$27.00	\$115.50	\$120.00	\$133.67	\$80.00
Generator	\$100.00	\$75.00	\$157.50	\$259.00	\$159.12	\$160.00
Steel Plates	\$350.00	\$8.00	\$8.40	\$11.50	\$22.14	\$8.00
Shield (trench Box)	\$750.00	\$130.00	\$840.00	\$103.00	\$171.59	\$110.00
Trench Shoring (struts, plates, etc.)	\$200.00	\$27.00	\$262.50	\$195.50	\$1110.24	\$10.00

While there is a range of cost across each of the line items for labor and equipment bids for each contractor, each contractor assigns overhead, profit, and mobilization costs in different areas based on their cost estimating methodology. The rates provided are fairly consistent among the six bidders. Three of the six bidders, GCI Construction, Inc. (GCI), Paulus, and W.A. Rasic Construction Company, Inc. (Rasic), have competitive rates and included references for similar on-call emergency water line repair work. Staff contacted their references and received positive feedback about the responsiveness, work quality, and accurate billing for these contractors.

Staff recommends that the Board of Directors consider approving contracts with GCI, Paulus, and Rasic for \$150,000 per year for five years for a not-to-exceed amount of \$750,000 with two one-year renewal options, to provide On-Call Pipeline Repair and Construction, and authorize execution of the contract.

FINANCIAL IMPACT

In Fiscal Year 2018, \$150,000 is budgeted for On-Call Pipeline Construction Services.

ATTACHMENTS

None.



Dedicated to
Satisfying our Community's
Water Needs

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Stacy Taylor, External Affairs Manager
DATE: August 15, 2017
SUBJECT: Water Vending Machine Messaging

RECOMMENDATION

Approve the revised water vending machine messaging.

This item was agendized per request by the Legislative and Public Affairs Committee (LPAC).

STRATEGIC PLAN

Goal #4: Increase public awareness about Mesa Water® and about water.
Goal #6: Provide outstanding customer service

PRIOR BOARD ACTION/DISCUSSION

The LPAC discussed the water vending machine at its meeting on July 27, 2017

DISCUSSION

Mesa Water District's water vending machine is a popular community resource. Since its initiation, the water vending machine at the District has served over 252,000 gallons of safe, high-quality water to consumers. Over the 12-month timeframe of June 2016 through May 2017, the machine has dispensed a total of 32,480 gallons which is approximately 44 units:

<u>Month</u>	<u>Gallons</u>
June '16	2,269
July	3,184
Aug	1,954
Sept	3,411
Oct	2,835
Nov	3,234
Dec	2,558
Jan '17	2,035
Feb	2,750
Mar	2,631
Apr	2,959
May	2,660
Total	32,480

Water Vending Machine Programming/Labels

As currently programmed, the smallest denomination coin that the water vending machine can accept is a nickel (5 cents), and it can also accept dimes and quarters. To better communicate the

affordability of Mesa Water’s water, the machine can be reprogrammed from the current amount to accept 5 cents for each volume as depicted below:

<u>Current Amount</u> <i>(see image below)</i>	<u>Gallons</u>	<u>Reprogrammed Amount</u>	<u>Gallons</u>
5 cents	1	5 cents	1
15 cents	3	5 cents	3
25 cents	5	5 cents	5



The estimated cost for reprogramming and relabeling the machine (see circled area in above image) is \$100.00.

Water Vending Machine Sign

To communicate the quality and safety of Mesa Water’s water, the bilingual (English/Spanish) sign next to the water vending machine contains three bullet points. Staff recommends editing the sign’s bullet points as follows below:

1st Bullet

OLD - The water you buy from most vending machines comes from the same source as your faucet at home.

NEW - This water is from Mesa Water District, which provides high-quality tap water to homes and businesses in this community.

2nd Bullet

OLD - The water that Mesa Water delivers to your tap meets or exceeds all State and Federal drinking water standards.

NEW - Mesa Water delivers safe tap water that meets or exceeds all State and Federal drinking water standards.



3rd Bullet

OLD - Mesa Water conducts 30,000 water quality tests per year to ensure your drinking water is clean and safe.

NEW - Mesa Water conducts over 30,000 water quality tests per year to ensure it serves clean and safe drinking water to this community.

The estimated cost for producing and posting a new sign is \$650.

The Board's decision on this item is needed at this meeting in order to have the new messaging in place for Mesa Water's community outreach event on September 23rd to officially launch the District's new water vending machine.

FINANCIAL IMPACT

In Fiscal Year 2018, \$373,200 is budgeted for support services to the District's Public Affairs department; \$29,000 in funds has been spent to date.

ATTACHMENTS

None.

REPORTS:

8. REPORT OF THE GENERAL MANAGER:

REPORTS:

9. DIRECTORS' REPORTS AND COMMENTS:



*Dedicated to
Satisfying our Community's
Water Needs*

MEMORANDUM

TO: Engineering and Operations Committee
FROM: Phil Lauri, P.E., Assistant General Manager
DATE: August 15, 2017
SUBJECT: Valve Replacements

RECOMMENDATION

This item is provided for information only.

STRATEGIC PLAN

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

Goal #2: Practice Continuous Infrastructure Renewal and Improvement

DISCUSSION

As part of the routine maintenance of Mesa Water's mainline and fire hydrant valves, several valves have been identified that require replacement. Mesa Water's Operations Department has indicated that the selected valves exhibit leaks, the inability to turn, or have a low turn count.

Inoperable valves lead to challenging shutdowns during emergency and non-emergency repair of main lines. Challenging shutdown conditions consist of:

1. More customers taken out of service for repair work;
2. Excessive dewatering of main lines and excavations;
3. Project delays; and
4. Higher cost for main line repairs.

Mesa Water will use a combination of District crews and contractors to perform valve replacement work in Fiscal Year 2018. Approximately 55 valves will be replaced using Mesa Water resources and 15-20 valves (6" – 12") will be replaced using contractor services. Mesa Water will be soliciting bids in late August and will bring the bid results for consideration of a contract award to a future Board meeting.

FINANCIAL IMPACT

In Fiscal Year 2018, \$300,000 is budgeted for the Valve Replacements Project.

ATTACHMENTS

None.