



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | SEPTEMBER 4, 2019

DIRECTORS PRESENT

Edward Mandich, Committee Chair
Don Chadd, Committee Alternate

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, District Secretary
Lorrie Lausten, Principal Engineer
Gary Kessler, Water Department Superintendent
Travis Jones, Wastewater Department Chief Plant Operator
Jason Stroud, Maintenance Department Superintendent
Karen Warner, Senior Accountant
Lisa Sangi, Administrative Assistant

PUBLIC PRESENT

Kris Weber, Hunsaker & Associates

CALL MEETING TO ORDER

Director Mandich called the September 4, 2019 Engineering/Operational Committee Meeting to order at 7:00 AM.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

Director Mandich moved Item 9 to the first of the order.

Director Chadd had no comments.

REPORT FROM THE INTERIM GENERAL MANAGER

Mr. Perea introduced and welcomed Mr. Fernando Paludi, the District's new General Manager.

Mr. Perea reported that District Operations and Maintenance responded to the emergency equipment failure at the Bell Canyon Sewer Pump Station over the holiday weekend, and he mentioned that District staff are currently assessing the condition of other equipment for repair and/or replacement.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Perea presented the recap for Committee review in accordance with the agenda.

RECOMMENDED ACTION

Director Mandich and Mr. Perea recommended that the Engineering/Operational Committee Meeting Recap be forwarded to the Board of Directors for approval (Consent Calendar).

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ITEM 9: SADDLEBACK MEADOWS DEVELOPMENT (167 DUs)

Ms. Lausten provided a brief update on this development, and she reported that District staff has worked with PSOMAS Engineering (Consultant) on updating the Sub-Area Master Plan (SAMP) for the proposed development and a domestic water storage analysis to accommodate the increase in dwelling units (DUs). Discussion occurred concerning domestic water storage and conveyance options to the proposed development. Mr. Kris Weber, Hunsaker and Associates, addressed the Committee, and provided a brief update concerning the development and negotiations with the neighboring landowner. Director Mandich requested that the updated PSOMAS Storage Analysis Report be presented the Committee at the next meeting.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 2: RIDGELINE BOOSTER PUMP STATION IMPROVEMENTS AND CAPACITY INCREASE PROJECT

Ms. Lausten provided a brief update on this project and she reported that District staff is currently in the submittal and equipment procurement phase. Ms. Lausten reviewed the project schedule with the Committee and highlighted the planned Pump Station shutdown in October 2019, and she provided an update on the District's planned alternative pumping strategy during the shutdown period. Mr. Stroud reported on the replacement of certain equipment at the alternative pump station to accommodate the improvements at Ridgeline Booster Pump Station during the shutdown.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 3: DOVE AND ROBINSON RANCH RECYCLED WATER PUMP STATION REHABILITATION PROJECT

Ms. Lausten provided a brief update on this project, and she reported on the upgrades completed to date. Discussion occurred concerning the potential impacts the planned improvements to the facility, including noise and system challenges.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 4: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING THE URBAN WATER & STORMWATER RUNOFF CONVEYANCE STRUCTURE TO DOVE LAKE

Mr. Perea presented this matter for Committee review, and he reported that District staff provided an update via letter to the Trabuco Highlands Community Association (THCA) Property Manager per the direction of the Board of Directors. Mr. Perea reported that THCA's Property Manager advised that the matter would be agendaized for their Board of Directors' review at their next Regular Board Meeting. Discussion occurred concerning the GMU proposals for design, construction, and construction management services.

RECOMMENDED ACTION

The Committee received the status update and recommended forwarding the information to the Board of Directors.

ITEM 5: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT 2019 NON-DOMESTIC WATER ALLOCATION STUDY

Ms. Lausten provided a brief status update on this matter, and she reported that District staff and General Legal Counsel had provided additional information in the form of a draft Executive Summary to PSOMAS based on the information presented in the First DRAFT 2019 Non-Domestic Water Allocation Study ("Report"). Ms. Lausten

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mentioned that she had received the Second DRAFT Report from PSOMAS, and that a final DRAFT will be presented at the next Engineering/Operational Committee Meeting.

RECOMMENDED ACTION

The Committee received the status update. No action was taken.

ITEM 6: EL TORO SEWER LIFT STATION NORTH SIDE WET WELL PUMP IMPROVEMENTS

Mr. Perea provided this matter for Committee review, and he mentioned that this project was an approved Fiscal Year 2019/2020 Capital Improvement Project. Mr. Perea added that this facility is a shared facility with both Irvine Ranch Water District (IRWD) and Santa Margarita Water District (SMWD). Mr. Perea commented that the existing electric pumps were at their end of life and the backup diesel pumps would soon be non-compliant with South Coast Air Quality Management District (SCAQMD) and California Air Resource Board (CARB) regulations. Mr. Stroud provided a brief review of the planned improvements at the facility. Discussion occurred concerning ongoing discussions with IRWD concerning future participation levels at this facility, as well as, the necessity of onsite backup power generation.

RECOMMENDED ACTION

The Committee received the status update and recommended the Board of Directors authorize the General Manager to purchase replacement pumps and appurtenances for El Toro Sewer Lift Station from Flo-Services, Inc. in the amount of \$231,786 (Action Calendar).

ITEM 7: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. Heritage Sewer Lift Station Site Improvements

Ms. Lausten provided a brief update on this project, and she mentioned that DMc Engineering has completed the property survey. Mr. Stroud provided an update on the emergency sewer plug valve replacement, and he reported that District staff had worked with La Habra Fence to secure the facility with temporary fencing and screening material due to its proximity to the County Trail System.

2. SCADA Field Radio Study

Ms. Lausten presented a brief project update for Committee review, and she reported that District staff are currently working with TESCO Controls (Consultant) on the radio communication system modeling. Discussion occurred concerning planned SCADA antenna improvements and software solution evaluation.

3. Dove Canyon Pressure Reducing Valve (PRV) Stations

Ms. Lausten provided a brief update on this project, and she reported that District staff had ordered the equipment and materials for the project. Discussion occurred concerning potential vault sump pump options to reduce equipment corrosion due to water infiltration.

4. Other Projects

Mr. Stroud provided a brief summary of the emergency repair at Bell Canyon Sewer Lift Station, and he highlighted the loss of the first and second stage pumps and the force main leak in the dry well. Mr. Perea expressed his appreciation for Operations and Maintenance staff hard work during the holiday weekend to ensure the District would continue to provide sewer services to its customers.

RECOMMENDED ACTION

The Committee received the status update. No action was taken.

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ITEM 8: SADDLE CREST DEVELOPMENT (65 DUs)

Ms. Lausten provided a brief update on this development, and she reviewed the July 2019 Construction Report with the Committee. Ms. Lausten reported that construction of the onsite pump station was close to completion and that the contractor had installed the pumps at the facility. Ms. Lausten mentioned that Southern California Edison (SCE) has not provided permanent electrical power to the development site to date and that SCE would not be able to complete this process until the end of the year.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 10: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for August 2019, and he provided the additional highlights:

1. Water Operations staff completed “dead end” fire hydrant flushing in the Dove Canyon community.
2. Water Operations staff reorganized the Dimension Water Treatment Plant parts storage shed.
3. Water Operations staff deactivated the Trabuco Creek Groundwater Treatment Facility – groundwater production for 2019 totaled 521 acre-feet.
4. Water Operations staff dismantled and cleaned the eighteen (18) water filters at the Trabuco Creek Groundwater Treatment Facility.

Mr. Kessler reviewed the Monthly Water System Operations Summary with the Committee and highlighted the Trabuco Creek Groundwater Treatment Plant production of 521 acre-feet of groundwater for the year.

Mr. Perea highlighted that the Water Operations had completed the Valve Exercising Program in thirteen (13) months, and that Operations will now focus the Fire Hydrant Flushing Program. Discussion occurred concerning the permanent repair of the berm at the Trabuco Creek Groundwater Treatment Plant.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 11: WASTEWATER SYSTEM UPDATES

Mr. Jones reviewed the projects and repairs for August 2019, and he provided the additional highlights:

1. Wastewater Operations staff installed a new final effluent sampling line at the Robinson Ranch Wastewater Treatment Plant (“WWTP”).
2. Wastewater Operations staff completed the Non-Domestic Water Irrigation Inspections in the Dove Canyon community.
3. Wastewater Operations staff re-routed the sodium hypochlorite injection line at Barneburg Sewer Lift Station for odor control purposes.
4. Wastewater Operations staff started the Non-Domestic Water System Pressure Reducing Valve Rehabilitation Program.

Mr. Jones reviewed the Monthly Wastewater System Operations Summary with the Committee. Mr. Perea briefly discussed the District’s Non-Domestic Water Annual Inspection process and he provided an update on the reclaimed water odor complaint in the Dove Canyon community; he indicated that Dove Canyon Master Association (DCMA) had installed fertilizer injectors after the meter, and District Staff had requested that the injectors be deactivated for a period of time to reduce the odors.

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Mr. Perea reported that a small sewer spill had occurred the prior week at the entrance of Heritage Sewer Lift Station due to a blockage, and the Wastewater Operations had identified that solidified detergent was the root cause.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

ITEM 12: MAINTENANCE DEPARTMENT UPDATES

Mr. Stroud reviewed the projects and repairs for August 2019, and he provided the additional highlights:

1. Maintenance Department staff worked with Hydrotech Electric to complete major repairs and upgrades at the Field Office/Booster Pump Station in preparation for Ridgeline Booster Pump Station improvements in October 2019.
2. Maintenance Department staff worked with Ferreira Construction on the emergency repair at Heritage Sewer Lift Station.
3. Maintenance Department staff performed repairs and cleaned Dove Creek Pump Station Wet Well.
4. Maintenance Department staff worked with Wastewater Operations staff to identify pumping challenges in the El Toro Road Sewer Force Main.

Mr. Stroud reported that one of the two El Toro Road Sewer Force Main valves was broken in the open position during a recent valve exercise, and that District staff will schedule the replacement of the valve.

RECOMMENDED ACTION

The Committee received the status update. There was no action taken.

OTHER MATTERS/REPORTS

Mr. Perea had no other matters to report.

Mr. Paludi expressed that he was impressed with District staff and their emergency response efforts.

Discussion occurred concerning the status on the procurement of the new Vactor Truck; Mr. Stroud indicated that the new truck is scheduled to arrive at the end of September.

RECOMMENDED ACTION

There was no action taken.

ADJOURNMENT

Director Mandich adjourned the September 4, 2019 Engineering/Operational Committee Meeting at 8:19 AM.