



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | DECEMBER 11, 2019

DIRECTORS PRESENT

Edward Mandich, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

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

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Mandich called the December 11, 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 expressed that he hoped everyone had an enjoyable Thanksgiving and enjoyed attending the District staff holiday lunch.

No other comments were received.

REPORT FROM THE INTERIM GENERAL MANAGER

No comments were received.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

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

RECOMMENDED ACTION

The Committee recommended that the Engineering/Operational Committee Meeting Recap be forwarded to the Board of Directors for approval (Consent Calendar).

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

Mr. Paludi presented this matter for Committee consideration, and he mentioned that there was recommended action related to a project contract change order. Ms. Lausten provided a brief update on this project, and she reported that District staff has received the following contract change orders (1) Pacific Hydrotech (Contractor) due to additional project-related work due to unforeseen conditions in the amount of \$23,450; and (2) Hazen and Sawyer for additional shop drawing reviews and additional RFIs in the amount of \$26,770. Ms. Lausten presented project progress photographs for Committee review.

RECOMMENDED ACTION

The Committee received the information concerning the matter and made the following recommendations:

1. Recommend the Board of Directors ratify Contract Change Order No. 1 to Pacific Hydrotech Corporation in the amount of \$23,450 (Action Calendar).
2. Recommend the Board of Directors authorize the General Manager to execute the Hazen and Sawyer Contract Addendum No. 2 in the amount of \$26,770 (Action Calendar).

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

Mr. Paludi presented this informational item for Committee consideration. Ms. Lausten provided a brief update on this project, and she presented project progress photographs for Committee review. Discussion occurred concerning the condition of the facility piping and planned replacement as part of the project. Ms. Lausten added that District staff will present a project contract change order to the Committee at a later date as it is currently under review by District staff. Discussion occurred concerning project budget and timeline for completion.

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. Paludi presented this informational item for Committee consideration, and he reported that GMU Geotechnical has started the design portion of this project. Mr. Paludi added that District staff is currently working with General Legal Counsel to update certain terms of the agreement after meeting with Trabuco Highlands Community Association (THCA) representatives, which includes the maintenance of the spillway and concerns related to long-term liability issues for both parties.

RECOMMENDED ACTION

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

ITEM 5: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT'S PLANO SERVICE AREA NON-DOMESTIC WATER ALLOCATION PROGRAM

Mr. Paludi presented this matter for Committee consideration, and he mentioned that this matter was previously discussed at the Regular Board Meeting. Mr. Perea briefly reviewed the Recycled Water Allocation Program, adopted by the Board in 2007, and he highlighted the program methodologies for the allocation of reclaimed and recycled water supplies and provisions for supplemental domestic water supplies. Discussion occurred concerning the use of wastewater contribution as a key method of allocation of non-domestic water and concerns related to the management of unused allocated non-domestic water. The Committee recommended that District staff prepare an internal analysis of non-domestic water usage impacts based on existing demands for further review and evaluation.

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RECOMMENDED ACTION

The Committee received the information concerning the matter. No other action was taken.

ITEM 6: DISCUSSION CONCERNING BELL CANYON SEWER LIFT STATION REHABILITATION PROJECT

Mr. Paludi presented this matter for Committee review, and he reported that the design portion of this project was currently underway. Ms. Lausten provided a brief project update, and she mentioned that District staff would be meeting with the design engineer (JIG Consultants) the following week to review the preliminary rehabilitation design. Discussion occurred concerning the temporary bypass equipment staged at the facility; Mr. Stroud commented that District staff were working on reducing the overall footprint of the temporary bypass equipment and temporary fencing. Discussion occurred concerning proposed facility improvements and related easement concerns.

RECOMMENDED ACTION

The Committee received the information concerning the matter

ITEM 7: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT'S GROUNDWATER FEASIBILITY STUDY

Mr. Paludi presented this matter for Committee review, and he mentioned that there is action related to a contract addendum with Woodard & Curran (Consultant). Ms. Lausten provided a brief project update, and she mentioned that the Consultant has completed all three tasks of the study. Ms. Lausten reported that District staff has requested additional support services from the Consultant related to the study, and contract addendum covers the additional requested services. Discussion occurred concerning potential groundwater opportunities based on water quality and treatment levels.

RECOMMENDED ACTION

The Committee received the information concerning the matter and recommended the Board of Directors authorize the General Manager to execute the Woodard & Curran Contract Addendum No. 1 in the amount of \$8,496 (Action Calendar).

ITEM 8: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT'S SEWER SYSTEM MANAGEMENT PLAN (SSMP) 2019 UPDATE

Mr. Paludi presented this matter for Committee review, and he mentioned that there is action related to the District's Sewer System Management Plan (SSMP) 2019 Update. Mr. Perea provided a brief review of the State Water Resources Control Board (SWRCB) SSMP requirements, and he highlighted the changes between the previous 2014 update version and the proposed update, including the overall layout and inclusion of the current monitoring and reporting requirements.

RECOMMENDED ACTION

The Committee received the information concerning the matter and recommended the Board of Directors adopt the Trabuco Canyon Water District Sewer System Management Plan (SSMP) 2019 Update (Action Calendar).

ITEM 9: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. SCADA Upgrade Project – Radio Field Study and Software Evaluation

Ms. Lausten provided a brief update on this project, and she reported that District staff have completed the software evaluation portion. Ms. Lausten reviewed the SCADA Software Upgrade Evaluation Memorandum with the Committee, and she indicated that District staff recommends the Aveva Wonderware System Platform based

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on the overall benefits of the software, local resources, and price. Ms. Lausten mentioned that TESCO Controls has started the Radio Field Study earlier in the week.

2. Dove Canyon Pressure Reducing Valve (PRV) Stations

Ms. Lausten provided a brief update on this project, and she presented a contract change order from Ferreira Construction for Committee consideration and review. Ms. Lausten reported that change order was due to unforeseen conditions, the need for additional materials there was a \$7,000 change order that will need to be brought to the Board of Directors for ratification.

3. Other Projects

Ms. Lausten provided a brief update on the Oaks at Trabuco Development, and she reported that the developer is constructing two additional homes. Discussion occurred concerning the existing contractual arrangements with the developer related to the pumping and hauling of wastewater at the onsite wastewater treatment facility.

Ms. Lausten reported that District staff plans to contract for the inspection of both the Trabuco Dam and Dove Dam, including intake structures and appurtenances. Ms. Lausten added that more information concerning the inspections and findings will be reported to the Committee at a later date.

Ms. Lausten reported that the Dimension Water Treatment Plant Entrance Project is currently underway by the City of Lake Forest.

Mr. Paludi reported that District staff has met with Irvine Ranch Water District (IRWD) staff for the purpose of evaluating their request to divest from the El Toro Trunk Sewer and Sewer Lift Station. Mr. Paludi added that IRWD has provided the District a proposed term sheet for Board consideration, and he mentioned that this matter will be agendized for Committee review the following month.

Ms. Lausten reported that District staff propose to rehabilitate the existing domestic water connection and vault at O'Neill Park. Ms. Lausten presented photographs of the current condition of the vault, and she mentioned that this proposed project was not budgeted for Fiscal Year 2019/2020.

RECOMMENDED ACTION

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

ITEM 10: PALOMA SQUARE DEVELOPMENT (120 DUs)

Mr. Paludi presented this matter for Committee review, and he reported that District staff is currently working with General Legal Counsel to prepare a comment letter to the City of Rancho Santa Margarita (RSM) on the William Lyon Homes (WLH) Paloma Square Specific Plan. Ms. Lausten presented a revised proposal from PSOMAS Engineering for the preparation of a Sub-Area Master Plan (SAMP), and she highlighted the changes based on recommendations from the Committee. Discussion occurred concerning current and historical domestic water demand impacts and system capacity charges.

RECOMMENDED ACTION

The Committee received the status update and recommended forwarding the information to the Board of Directors (Action Calendar).

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ITEM 11: SADDLEBACK MEADOWS DEVELOPMENT (181 DUs)

Ms. Lausten provided a brief update on this development, and she reported that District staff has directed PSOMAS Engineering to proceed with the preparation of the Sub Area Master Plan (SAMP) for this development. Ms. Lausten added that the developer has increased the dwelling unit (DUs) capacity to 181 DUs. Ms. Lausten mentioned that District staff is currently working with the developer to prepare a feasibility study related to improvements to the District's Harris Grade Reservoirs.

RECOMMENDED ACTION

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

ITEM 12: WATER SYSTEM UPDATES

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

1. Water Operations staff repaired a leaking domestic water service on Wood Spring Drive in the Portola Hills community.
2. Water Operations staff completed the "dead end" flushing of the District's domestic water system.
3. Water Operations staff converted one (1) dry barrel hydrant to wet barrel and replaced a fire hydrant on Birdhollow Drive in the Trabuco Highlands.
4. Water Operations staff completed storage shed rehabilitation at the Dimension Water Treatment Plant.

Mr. Kessler reviewed the Monthly Water System Operations Summary with the Committee. Mr. Kessler reported that the Booster One Pump Station has been in operation since the decommission of the Ridgeline Booster Pump Station for the planned improvements. Discussion occurred concerning the increased flow of water in Trabuco Creek.

RECOMMENDED ACTION

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

ITEM 13: WASTEWATER SYSTEM UPDATES

Mr. Perea reviewed the projects and repairs for November 2019, and he provided the additional highlights:

1. Wastewater Operations staff installed a new final effluent flow meter at the Robinson Ranch Wastewater Treatment Plant (WWTP).
2. Wastewater Operations staff repaired a leaking four-inch (4") drain line at the WWTP.
3. Wastewater Operations staff completed the California Environmental Laboratory Accreditation Program lab certification renewal application.

Mr. Perea reviewed the Monthly Wastewater System Operations Summary with the Committee.

RECOMMENDED ACTION

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

ITEM 14: MAINTENANCE DEPARTMENT UPDATES

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

1. Maintenance Department staff cleaned and repaired the Sequencing Batch Reactor (SBR) at the Robinson Ranch Wastewater Treatment Plant (WWTP).

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2. Maintenance Department staff worked with Hydrotech Electrical at the Dove & Robinson Ranch Recycled Water Pump Station.
3. Maintenance Department staff worked with TESCO Controls on the Radio Field Study.
4. Maintenance Department staff worked with Wastewater Operations to install a new final effluent flow meter at the WWTP.

RECOMMENDED ACTION

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

ITEM 15: OTHER MATTERS/REPORTS

None

RECOMMENDED ACTION

There was no action taken.

ADJOURNMENT

Director Mandich adjourned the December 11, 2019 Engineering/Operational Committee Meeting at 8:12 AM.