



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | FEBRUARY 1, 2017

DIRECTORS PRESENT

Edward Mandich, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Hector Ruiz, General Manager
Michael Perea, District Secretary
Lorrie Lausten, Principal Engineer
Lisa Sangi, Administrative Assistant
Kris Hanberg, Wastewater Department Superintendent
Gary Kessler, Water Department Superintendent
Jason Stroud, Maintenance Superintendent

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Mandich called the February 1, 2017, Engineering/Operational Committee Meeting to order at 8:49 AM.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

No Committee Member comments were received.

REPORT FROM THE GENERAL MANAGER

No General Manager comments were received.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

The January 4, 2017, Engineering/Operational Committee Meeting Recap was presented to the Committee.

RECOMMENDED ACTION

The Committee approved, and recommended that the Board receive and file the January 4, 2017, Engineering/Operational Committee Meeting Recap (Consent Calendar).

ITEM 2: ALTERNATE RAW WATER TRANSMISSION LINE - PW79

Mr. Ruiz provided a status update on this project for Committee review, and mentioned that District staff is currently preparing a time extension request for submission to FEMA. Ms. Lausten reported that now that the Environmental Services Contract had been awarded to Michael Baker International, she will schedule a project pre-construction meeting with the contractors and consultants.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | FEBRUARY 1, 2017**

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 3: BAKER WATER TREATMENT FACILITY

Mr. Ruiz provided a status update on this project for Committee review, and mentioned that the Baker Water Treatment Plant (BWTP) is currently in operation at capacity through the remainder of the month for the planned 30-day operational test period. Mr. Ruiz added that the billing memorandum of understanding has not been formalized, but that there are ongoing discussions between the partner agencies and the Municipal Water District of Orange County (MWDOC). Discussion occurred concerning interest from other south county water agencies in purchasing the District's excess water; Mr. Ruiz mentioned that the City of San Clemente has previously expressed interest, and that he will have more information concerning this matter at the time of the Regular Board Meeting.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 4: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. Supervisory Control and Data Acquisition (SCADA) System – Phase 1

Ms. Lausten provided a status update on this project, and mentioned that TESCO has completed their first visit to inspect the District's facilities. Mr. Stroud added that Maintenance and Operations staff had assisted with the facility site visits per TESCO's electrical preventative maintenance work (EMASS Program), and that TESCO worked with Beavens Systems to repair the SCADA system computer at the Administration Facility.

2. Plano Sewage Lift Station and Plano Water Booster Pump Station Facility Site Security Improvements

Ms. Lausten provided a status update on this project, and mentioned that the Developer is currently fabricating the facility entry gate. Ms. Lausten added that the project is anticipated to be completed in the following weeks.

3. Existing Network Infrastructure Upgrade

Mr. Perea provided a status update on this project, and reported that the electrical and cabling upgrades to the Administration Facility File Room have been completed. Mr. Perea reported that District staff has scheduled the physical relocation of the server rack with Synoptek (District IT Manager) for later in the week. Mr. Perea added that District staff is reviewing the impacts of the server equipment relocation on the Administration Facility's Heating, Ventilation and Air Conditioning (HVAC) System.

4. Ridgeline Booster Pump Station Upgrades and Improvements Phase I

Mr. Ruiz provided a brief status update on this project, and presented the Ridgeline Booster Pump Station Improvement and Reservoir Storage Increase Modeling Analysis (Report) as prepared by PSOMAS. Mr. Ruiz reviewed the costs associated with the proposed electrical and pump upgrades. Discussion occurred concerning pump replacement strategies to meet the District's needs for emergency backup pumping and the proposed Saddle Crest development.

5. Other Projects

Mr. Ruiz introduced the County of Orange planned Live Oak Canyon Road Improvement Project, and mentioned that District staff has met with County staff to review the County's request for the potential relocation of District pipelines. Mr. Ruiz added that the County's road improvements may require that the District's water mains be relocated at three locations, and that District staff is inquiring about conducting additional potholing to verify if

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | FEBRUARY 1, 2017**

the mains need relocation. Mr. Ruiz added that District staff will be meeting with the County staff on February 2, 2017 to discuss these locations and other possible options.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 5: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING SADDLE CREST DEVELOPMENT (65 DUs)

Mr. Ruiz had no updates on this matter due to the Special Board Meeting held prior to the Committee Meeting, but mentioned that another Special Board Meeting concerning this project would be held on Thursday, February 2, 2017 at 6:00 PM.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 6: REVIEW OF FISCAL YEAR 2016/2017 CAPITAL IMPROVEMENT PROJECTS (CIP)

Mr. Ruiz presented this matter for Committee review, and briefly highlighted the current status of the approved Fiscal Year 2016/2017 Capital Improvement Projects (CIP):

Administration

- Administration Building Kitchen:

Mr. Ruiz mentioned that District Administrative staff will collaborate on this project after the relocation of the server from the pantry and prior to the end of the fiscal year.

Water System

- Hydrants Replacement Program:

Mr. Ruiz said that District staff is reviewing options for the replacement and maintenance of the District's fire hydrants throughout the service area.

- Utility Valve/Hydrant Flushing Vehicle:

Mr. Ruiz said that Operations and Maintenance staff are reviewing cost proposals for the purchase of this vehicle, and preparing an improved purchase order template for major purchases such as specialized and customized service vehicles.

- Water Storage Reservoir Recoating, Phase 1:

Mr. Ruiz said that this project is a study to evaluate the tank coatings of all the steel tank reservoirs, and will likely be completed next fiscal year.

- Cooks Reservoir:

Mr. Ruiz said that the construction portion of this project has been completed, and that the onsite security improvements are ongoing.

- Dimension Water Treatment Plant Delivery Access Improvement:

Mr. Ruiz said that this project will likely be completed next fiscal year due to other ongoing projects.

- Dimension Water Treatment Plant Clearwell Cathodic Protection:

Mr. Ruiz said that this project will likely be completed next fiscal year due to other ongoing projects.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | FEBRUARY 1, 2017**

- Canyon Creek Pump Station & Hydropneumatic Tank Improvements/Repairs:
Mr. Ruiz reported that Maintenance staff has a temporary solution in place at this facility, but that a long-term, permanent solution is required. Mr. Ruiz added that there are certain challenges associated with this project, but that District staff will be proposing a short-term solution for protecting the surge control tank and electrical components pending the relocation of the tank at a future date after the County of Orange can enforce unpermitted building construction at the site by the current owner.
- Mountain View Drive Pipeline & Fire Hydrant Replacement:
Mr. Ruiz reported that Water Operations staff are currently preparing for this project, and will be scheduling the pipeline and fire hydrant replacement before the end of the fiscal year.

Wastewater/Recycled Water Systems

- 1986 Crane Truck Replacement:
Mr. Ruiz reported that Maintenance staff is currently reviewing the required purchase order language for the purchase of this vehicle.
- Wastewater Treatment Plant (WWTP) & Service Road Asphalt Repairs & Cap, Phase 1:
Mr. Ruiz said that the first phase of this project includes potholing and testing work that will likely be completed next fiscal year.
- Santiago Lift Station Control Panel Replacement:
Mr. Ruiz said that this project will likely be completed next fiscal year due to other ongoing projects.
- Via Allegre Wet Well Expansion:
Mr. Ruiz said that this project is a high priority to be completed this fiscal year, due to anticipated completion and sale of units at the Dahlia Court development.
- Recycled Water Pump Stations Replacement, Phase 1:
Mr. Ruiz said that the first phase of this project is a study and is also a high priority due to significant electrical and mechanical issues, and that the Recycled Water Pump Station for the Robinson Ranch and Trabuco Highlands communities is currently down due to the impacts of the recent storm event.

Discussion occurred concerning security improvements at the WWTP, Dove Lake Access Road Improvements; Mr. Ruiz said that District staff is currently reviewing the proposed costs associated with security improvements to the WWTP. Mr. Ruiz reported that he has submitted costs associated with the repairs to the Dove Lake Access Road to CalOES and FEMA due to the impacts of the most recent storm event.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 7: ACTIVE DEVELOPMENTS

1. Dahlia Court Development (36 DUs | WSL)
Ms. Lausten reported that District staff has provided additional meters per the developers request, and that District staff is scheduled to inspect the installation of the water meters and boxes.
2. Skyridge Development (84 DUs | WSL)
Ms. Lausten reported that there was no new activity on this development.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | FEBRUARY 1, 2017**

3. Oaks at Trabuco, County of Orange (9 DUs | WSL)

Mr. Ruiz reported that District staff is currently working with the Regional Board and the South Orange County Wastewater Authority (SOCWA) to determine if the onsite facility can be reclassified from a Title 22 Tertiary Treatment to a Secondary Treatment Facility due to the low flows, location, and opportunity for disposal within a restricted area. Mr. Ruiz added that District staff met with State Water Board and SOCWA staff to review the necessary application and documents for consideration and completed an onsite visit.

4. Other Active Developments

Discussion occurred concerning the potential for new residential development at the Dove Shopping Center.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 8: WATER SYSTEM UPDATES

Mr. Kessler presented the Water System Status Update through January, 2017, and reported on the following matters:

1. Water Department staff repaired a valve leak at the intersection of Brookseed and Bayberry.
2. Water Department staff replaced a recirculating pump at the Harris Grade Reservoir
3. Water Department staff assisted with the residential water meter change out project in Santiago Canyon Estates.
4. Water Department staff worked with Tesco Controls on the communication/electrical assessment and preventative maintenance EMASS project.

Mr. Kessler reviewed the impacts and challenges on customer water demands due to the recent storm event, and mentioned that all of the District's potable water reservoirs were full as a result of the overall decreased demand. Mr. Kessler added that Operations did not have any available storage to receive and store Baker Water Treatment Plant water. Director Mandich asked about the status of the Trabuco Creek Wells Facility; Mr. Kessler replied that the water level is currently at twenty feet, but that the facility pump and motors are currently out for repair. Mr. Perea expressed his appreciation to the Water Operations and Maintenance staff for their assistance with Customer Service in replacing the existing touch read water meters with automatic meter read water meters in the Santiago Canyon Estates community.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 9: WASTEWATER SYSTEM UPDATES

Mr. Hanberg presented the Wastewater System Status update through January, 2017, and reported on the following matters:

1. Wastewater Department staff replaced the aerobic digester diffusers at the Robinson Ranch Wastewater Treatment Plant (WWTP).
2. Wastewater Department staff replaced a six-inch butterfly valve on the Robinson Ranch recycled water booster pump.
3. Wastewater Department staff assisted the Water Department in the repair of a valve flange on Brookseed Drive.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | FEBRUARY 1, 2017**

4. Wastewater Department staff assisted the Maintenance Department in the replacement of a pump at the Via Allegre Sewer Lift Station.

Mr. Hanberg reviewed the impacts and challenges due to the recent storm event on the District's sanitary sewer system, and mentioned that Operations staff sealed strategically located sewer manholes to reduce storm water flows to the sewer lift stations and prevent high wet well levels. Director Dopudja commended staff on the inexpensive preventative solution of temporarily sealing the manhole lids.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 10: OTHER MATTERS/REPORTS

Mr. Ruiz reported that the District has been notified by the State Water Board Division of Drinking Water of new amendments to water agency permits being issued that include lead sampling at K-12 schools in respective service areas upon request by the school district. Mr. Ruiz said that the District is required to burden the cost to implement this new testing sampling plan only. Mr. Ruiz added that required repairs to onsite systems will be the responsibility of the school district. Mr. Ruiz commented that the District is required to submit a list of the schools in its service area by July 1, 2017. Discussion occurred concerning the challenges associated with private schools and issues associated with pipelines at the schools constructed before the mid-1980s. Mr. Ruiz mentioned that more information will be presented at the Board Meeting, including an exhibit of the District's new permit amendment.

RECOMMENDED ACTION

The Committee received the information, no action taken.

ADJOURNMENT

Director Mandich adjourned the February 1, 2017, Engineering/Operational Committee Meeting at 9:33 AM.