

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP  
JULY 1, 2015**

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**DIRECTORS PRESENT**

Edward Mandich, Committee Chair  
Stephen Dopudja, Committee Member

**STAFF PRESENT**

Hector Ruiz, General Manager  
Lorrie Lausten, Engineer  
Kris Hanberg, Wastewater Department Superintendent  
Gary Kessler, Water Department Chief Plant Operator  
Jason Stroud, Maintenance Department Mechanical Technologist  
Lisa Carmouche, Administrative Assistant

**PUBLIC PRESENT**

There were no members of the public present.

**CALL MEETING TO ORDER**

Mr. Mandich called the July 1, 2015, 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**

Mr. Dopudja commented on his attendance at the Irvine Ranch Water District (IRWD) Baker Water Treatment Plant Tour. Mr. Dopudja commended IRWD for their work in coordinating the event.

Mr. Mandich commented on his attendance at the Irvine Ranch Water District (IRWD) Baker Water Treatment Plant Tour, as well.

**REPORT FROM THE GENERAL MANAGER**

Mr. Ruiz reported to the Committee that District staff has been working with the State Water Board to revise the District's Conservation Standard based on revised population numbers and a more accurate accounting of potable water use system-wide. Discussion occurred concerning the District's reporting revisions; Mr. Ruiz highlighted the example of the deduction of the Dimension Water Treatment Plant Backwash Water from the system-wide potable water use. Mr. Ruiz mentioned that based on these

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efforts and discussion with the State Water Board that the District's Conservation Standard has been reduced from 32% to 28%. Discussion occurred concerning the drought public outreach and messaging.

**ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP**

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Mr. Ruiz presented the June 3, 2015, Engineering/Operational Committee Meeting Recap for Committee review. There were no comments received.

**RECOMMENDED ACTION**

The Committee recommended that the Board receive and file the June 3, 2015, Engineering/Operational Committee Meeting Recap (Consent Calendar).

**ITEM 2: TRABUCO DAM AND RESERVOIR, NO. 2030-2, ORANGE COUNTY**

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Ms. Lausten provided a status update on this project and reviewed the project photos with the Committee. Ms. Lausten added that the project has been completed within budget, and that District staff will prepare a Notice of Completion for the project to submit to the County of Orange Clerk-Recorder.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 3: SHADOW ROCK DETENTION BASIN FACILITY PROJECT**

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Mr. Ruiz provided a status update on this project, and mentioned that construction for this project has been completed. Mr. Ruiz added that facility start up and testing is scheduled for Monday, July 6, 2015. Discussion occurred concerning facility operations and captured water flow rates through the facility. Mr. Ruiz mentioned that District staff is preparing to submit facility as-built drawings to the Army Corps of Engineers for review. Discussion occurred concerning the planned facility Dedication Ceremony and facility pump rates. Mr. Ruiz mentioned that this project will be removed from future Engineering/Operational Committee Meeting agendas, and added to the recycled water system status report for urban runoff capture and reuse. Mr. Ruiz mentioned that staff has also submitted a Notice of Completion to the County of Orange Clerk-Recorder.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 4: ALTERNATE RAW WATER TRANSMISSION LINE - PW79**

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Mr. Ruiz provided a status update on this project, and mentioned that District staff has been informally notified by Southern California Edison (SCE) that a letter of consent is expected to be received by the end of the week. Mr. Ruiz added that additional project-related potholing is being considered due to concerns raised by IRWD and the City of Lake Forest. District staff has requested a proposal for this additional potholing from Tetra Tech and will bring the proposal for action at the July 15, 2015 Regular Board Meeting. Discussion occurred concerning emergency bypass design planning and project timeline for completion.

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**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 5: BAKER WATER TREATMENT FACILITY**

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Mr. Ruiz provided a status update on this project, and presented the Baker Water Treatment Plant Construction Report for June 2015 for Committee review. Mr. Ruiz highlighted project change orders to date and reviewed the project timeline for completion. Mr. Ruiz added that the Project Committee (PC) Meeting for June was cancelled, and the PC is scheduled to meet on July 9, 2015. Discussion occurred concerning project timeline and schedule delays.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 6: OTHER ENGINEERING AND OPERATIONS PROJECTS**

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1. Capital Improvement Program (CIP)

Mr. Ruiz presented this matter for Committee review, and mentioned that the purpose of this item was to review planned major repairs for Fiscal Year 2015/2016. Discussion occurred concerning the planned water rate study. Mr. Ruiz highlighted the planned Water Audit and 2015 Urban Water Management Plan preparation, and mentioned that District staff expects to begin these projects in the third and/or fourth quarter. Discussion occurred concerning the budgeted fleet vehicle purchases; Mr. Stroud mentioned that the purchase orders for the vehicles have been submitted to the vendors.

2. Other Projects

Mr. Ruiz commented there were no other engineering and operations projects.

**RECOMMENDED ACTION**

The Committee received the status update(s), no action taken.

**ITEM 7: SKYRIDGE DEVELOPMENT (84 DUs)**

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Mr. Ruiz provided a status update on this development, and mentioned that District staff has met with Santa Margarita Water District (SMWD) on the DRAFT Agreement for the provision of water conveyance and storage and recycled water service to the development. Mr. Ruiz added that review comments have been submitted to District General Legal Counsel for review and comment. Discussion occurred concerning the current status of the development and site challenges. Mr. Ruiz mentioned that SMWD is currently coordinating the CEQA documentation for the recycled water system for the development.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

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**ITEM 8: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING PLANO TRABUCO DEVELOPMENT, WILLIAM LYON HOMES, INC., CITY OF RANCHO SANTA MARGARITA (36 UNIT TRIPLEX BUILDING DESIGN)**

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Mr. Ruiz provided a status update on this development, and mentioned that Ms. Lausten would review the project updates. Ms. Lausten mentioned that the Sub Area Master Plan (SAMP) has been completed by Psomas (Consultant), and that District staff has reviewed the water, sewer and recycled water connections for the thirty-six dwelling unit development. Ms. Lausten added that the SAMP has been prepared in accordance with the District's Rules and Regulations and has identified the required connection fees and charges and facility upgrades, which include facility upgrades at the Via Allegre Sewer Lift Station to accommodate the increased sewer flows from the development. Discussion occurred concerning the developers request for a Will Serve Letter and the anticipated lift station upgrades. Mr. Ruiz mentioned that at this time District staff recommends that the Committee recommend forwarding the Plano Trabuco SAMP to the Board of Directors for approval.

**RECOMMENDED ACTION**

The Committee received the status update, and recommended that the Plano Trabuco SAMP be forwarded to the Board of Directors for approval (Action Calendar).

**ITEM 9: ACTIVE DEVELOPMENTS**

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1. Summerfield Homes, County of Orange – Tract 15800 (5 DUs | WSL)

Ms. Lausten commented that there was no update on this development.

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

Ms. Lausten commented that there was no update on this development.

3. Saddle Crest Development

Ms. Lausten mentioned that District staff is coordinating with the developer to revise the 2011 SAMP to meet the State Water Board mandated Emergency Regulations for landscape irrigation and management. Ms. Lausten added that District staff is currently reviewing the feasibility of the construction of a 2 Million Gallon Reservoir to meet the development's potable water demand, including total capacity and location. Discussion occurred concerning the State Water Board's landscape maintenance requirements on the development's design.

4. Other Active Developments

Ms. Lausten commented that there were no other active developments.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 10: WATER SYSTEM STATUS**

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Mr. Kessler presented the Water System Status Update through June, 2015, and reported on the following matters:

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- Water Department staff repaired the Harris Grade Reservoir altitude valve, and installed a new sump pump in the underground vault at the facility.
- Water Department staff rebuilt the Dove Canyon Reservoir flow control valve.
- Water Department staff completed all of the annual cathodic protection maintenance repairs, including the installation of new anodes at the Dove Canyon Reservoir.

Mr. Kessler provided an updated Monthly Water System Operations Summary report for June, 2015, for Committee review, and provided additional information for calendar years 2014 and 2013. Discussion occurred concerning the current conservation efforts of District customers; Mr. Kessler mentioned that the District's customers have reduced their usage by approximately 23% District-wide. Mr. Kessler presented photographs of the newly installed anodes at the Dove Canyon Reservoir for Committee review.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 11: WASTEWATER SYSTEM STATUS**

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Mr. Hanberg presented the Wastewater System Status Update through June, 2015, and reported on the following matters:

- Wastewater Department staff replaced the Barneburg Sewer Lift Station piping.
- Wastewater Department staff completed road grading at the Shadow Rock Detention Basin Facility in preparation for the Dedication Ceremony Event.
- Wastewater Department staff connected a recycled water pipeline to Sakaida Nursery

Mr. Hanberg provided an updated Monthly Recycled Water System Operations Summary for June, 2015, for Committee review, and mentioned that the freeboard level for Dove Lake was currently at 7 feet. Discussion occurred concerning the delivery of recycled water to Sakaida Nursery; Mr. Hanberg mentioned that the recycled water was currently blended with potable water and the nursery's onsite well water.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 12: TCWD'S DIGITAL BASE MAPPING SYSTEM UPDATE AND DEMONSTRATION**

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Mr. Ruiz presented this matter for Committee review, and mentioned that District staff had prepared a demonstration of the District's iWater digital base mapping system update. Ms. Lausten highlighted the versatility of the tablet system, and demonstrated the mapping layers for the distribution system, recycled water system, and pressure zones. Discussion occurred concerning the inclusion of system-related documentation; Ms. Lausten commented and demonstrated the system's linked documents, such as as-built drawings. Mr. Hanberg demonstrated the sanitary sewer system functions, and mentioned that Wastewater Operations staff uses the system for sewer cleaning, manhole inspections, and source control inspections. Mr. Kessler mentioned that Water Operations staff uses the system for

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internal tracking of fire hydrant flushing and repair, and valve exercising. Mr. Ruiz mentioned that the system is primarily an operational tool, but has proven to be very useful for engineering projects and design.

**RECOMMENDED ACTION**

The Committee received the information, no action taken.

**ITEM 13: OTHER MATTERS/REPORTS**

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Mr. Ruiz commented there were no other matters or reports.

**ADJOURNMENT**

Mr. Mandich adjourned the July 1, 2015, Engineering/Operational Committee Meeting at 8:22 AM.