

**ENGINEERING/OPERATIONS COMMITTEE RECAP
MAY 8, 2012**

COMMITTEE MEMBERS PRESENT

Mike Safranski, Committee Chair
Ed Mandich, Committee Member

STAFF PRESENT

Don Chadd, General Manager
Hector Ruiz, District Engineer
Teresa Teichman, Secretary to the Board of Directors
Michael Perea, Special Projects Manager
Kris Hanberg, Wastewater Supervisor
Neil McKenna, Water Supervisor
Bob Beck, Maintenance Supervisor

PUBLIC PRESENT

No members of the public were present.

CALL THE MEETING TO ORDER

Committee Chair Safranski called the Engineering/Operational Committee Meeting to order at 7:02 a.m.

VISITOR PARTICIPATION

There was no visitor participation

ORAL COMMUNICATION

There were no comments

COMMITTEE MEMBER COMMENTS

Director Safranski provided his opinion related to the April 20, 2012 Grand Jury Report entitled, *“Let There Be Light” Dragging Special Districts from the Shadows*. Director Safranski expressed his disappointment in the manner the information was presented and stated he feels the most important component was left out of the report; which is the services provided by Special Districts. Director Safranski stated he does not agree with the recommendation to privatize TCWD or have the City take over for providing water and sewer services to the community. Mr. Safranski thanked TCWD Staff for the excellent service and product provided to the community.

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REPORT FROM THE GENERAL MANAGER

Mr. Don Chadd, General Manager, advised he spoke to field staff last week at the weekly tailgate meeting as it relates to the Grand Jury Report. Mr. Chadd stated he will be reviewing LAFCO's draft response to the Grand Jury and noted that it appears the Grand Jury has ignored the information provided through LAFCO relating to TCWD's Municipal Service Review performed in 2010.

Mr. Chadd discussed the upcoming District Tour for Water Awareness month. Mr. Chadd stated one of the shuttles will be cancelled due to a reduced number of customers attending the event.

Mr. Chadd reminded the committee about the newly purchased dual projector and two ceiling mounted screens and complemented the in-house staff responsible for installation and set-up of the equipment.

PROJECT MANAGEMENT

**ITEM NO. 1A) STATUS UPDATE RELATING TO THE BAKER REGIONAL
WATER TREATMENT FACILITY**

Mr. Hector Ruiz, District Engineer, provided a status update including information relating to options to handle solids on site. Mr. Ruiz advised IRWD staff is currently preparing a variance on the design of these new facilities which focuses on the new solids handling at the plant. Mr. Ruiz advised there is a benefit to having all functions performed all at the same site, however; will delay the project and increase the capital costs. Mr. Ruiz advised the variance to the design will create 86 new drawings and revise 79 existing drawings.

Mr. Ruiz advised he will bring the variance to the committee along with an updated schedule once IRWD's Board has approved.

The Engineering/Operational Committee received and filed the status update. No action taken.

**ITEM 1B) STATUS UPDATE RELATING TO THE ALTERNATE RAW WATER
TRANSMISSION LINE (ARWTL) (16-inch Raw Water Transmission Line
Serrano Creek Crossing Alternate Route – PW79)**

Mr. Ruiz advised FEMA responded on April 9, 2012, as it relates to TCWD's First Appeal by requesting additional information. Mr. Ruiz advised that Tetra Tech is proceeding with the various tasks required for responding to FEMA's Request for Information. Mr. Ruiz stated he anticipates a draft in a couple of weeks. Mr. Ruiz stated FEMA is accessing what it would take to re-build the creek crossing and is also looking at an alternate route for the water transmission line.

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Mr. Chadd advised that because this project is over the one million dollar mark, FEMA is required to look at all options more closely. Mr. Chadd stated that TCWD knows intuitively how expensive it would be to attempt to re-build in the current location, however; that option is required to be explored. Mr. Chadd clarified that the direction for design that TCWD gave to the consultant is the alternate route on the service road.

The Engineering/Operational Committee received information presented. No action taken.

ITEM NO. 1C) STATUS REPORT AND POSSIBLE ACTION RELATING TO DOVE RESERVOIR/TRABUCO RESERVOIR INTER-TIE AND TRABUCO HIGHLANDS PRESSURE REDUCING STATIONS PROJECT

Mr. Ruiz provided a status update and advised the project is proceeding well. Mr. Ruiz advised the work at the Brookseed Drive cul-de-sac has been progressing slower than expected due to wet weather impacting the concrete saw cutting, failure of concrete removal equipment, and most recently a large vein of bedrock discovered. Excavation is required through the area where bedrock was discovered and will result in a change order, based on a time and material basis. Mr. Ruiz advised the project timeline will be pushed back by one week.

Mr. Ruiz advised the valve installation is proceeding well and noted there have not been complaints from any customers relating to this project.

The Engineering/Operational Committee received the information presented. No action required.

ITEM NO. 1D) STAFF REPORT RELATING TO EL TORO ROAD SEWER LIFT STATION (ETRSLS)

Mr. Ruiz reminded the committee this information was presented to the Engineering/Operational Committee in 2009 and 2010. Mr. Ruiz advised IRWD is in the process of making amendments to the original agreement which dates back to 1989. Mr. Ruiz explained following the 1989 annexation of the Portola Hills service area into IRWD, agreements were entered into with SMWD and TCWD for conveyance, treatment and disposal of wastewater generated by IRWD customers. The agreements set forth the method for calculating wastewater volumes (and associated operation, maintenance, and fixed costs) attributable to each District's customers.

With the recent construction of a diversion structure and sewer bypass line by IRWD, the wastewater from Portola Hills can be diverted by gravity into IRWD's wastewater collection system which bypasses the ETRSLS and SMWD's Chiquita Wastewater System. IRWD would like to account for the bypassing of their portion of the Portola Hills wastewater and the

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corresponding operational cost savings resulting from not pumping of their wastewater through TCWD's ETRSLs and through SMWD's Chiquita Wastewater System. However, IRWD would continue with payment of their capacity share of fixed costs.

Mr. Ruiz distributed Figure 1 – Flow Chart: Existing Agreements and Proposed Amendments to the El Toro Road Sewer System and Chiquita Wastewater System. Mr. Ruiz also reviewed Exhibit "C", an aerial view showing all three connections.

Mr. Ruiz advised IRWD is willing to include maintaining minimum flows in order to avoid odor problems related to additional storage time in the force main.

Discussion occurred related to the fines imposed on Santa Margarita Water District (SMWD) related to a previous sewer spill.

The Engineering/Operational Committee received the information presented. No action required.

**ITEM NO. 1E) STATUS UPDATE AND POSSIBLE ACTION RELATED TO THE
SHADOW ROCK DETENTION BASIN FACILITY PROJECT
(SRDBFP)**

Mr. Ruiz provided background on this project along with a status update. Mr. Ruiz advised that the County of Orange is the lead agency that will manage the Prop 84 grant funds from the Department of Water Resources (DWR). The County of Orange is in the process of executing an agreement with the DWR and has prepared the agreement for execution by TCWD.

Mr. Ruiz stated that all costs were previously submitted to both the County and State and that TCWD will incur 25-percent of the project cost.

The Engineering/Operational Committee received the information presented. Forward to the Board. (Action Calendar).

**ITEM NO. 1F) STATUS UPDATE AND POSSIBLE ACTION RELATING TO ON-
GOING ENGINEERING PROJECTS**

1. Golf Club Lift Station Upgrades/Rehabilitation

Mr. Ruiz stated there is no new information to report. Mr. Ruiz advised the surge control system still needs to be upgraded.

2. Shadow Rock Detention Basin Facility Project

Mr. Ruiz advised this project had been reported on under Item 1E.

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3. Reservoir Analysis

Mr. Ruiz advised PSOMAS is waiting for TCWD to provide flow rates at this time.

4. Other Projects

Mr. Ruiz advised there are no other projects to discuss at this time.

The Engineering/Operational Committee received the information presented. No action taken.

**ITEM NO. 1G) STATUS UPDATE AND POSSIBLE ACTION REGARDING
ACTIVE DEVELOPMENTS**

1. Skyridge Homes (85 DUs)

Mr. Ruiz advised there is no new information to report.

2. Oaks at Trabuco

Mr. Ruiz advised there is no new information to report.

3. Fieldstone

Mr. Ruiz advised the sewer lines and water lines are completed. Mr. Ruiz advised TCWD is waiting to be contacted as it relates to meters for the site. Mr. Ruiz noted the developer may want to upsize the proposed meters due to fire sprinkler requirements.

4. Other Active Developments

There was no other active developments discussed.

The Engineering/Operational Committee received the Status update provided. No Action taken.

ITEM NO. 1H) WATER SYSTEM STATUS UPDATE

Mr. Neil McKenna, Water Supervisor provided the April 2012 status update.

Source Water Production

1. The water treatment plant production totaled 111 acre feet.

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2. The Trabuco Creek Water Treatment Facility produced 46 acre feet.
3. The average daily production for the month was 5.0 acre feet, or 2.5 cfs.
4. The demand for the District was 5.0 acre feet, or 2.5 cfs.

Projects and Repairs

1. Water Department Personnel repaired a 1-inch Air Vac on the 16-inch transmission main on the El Toro Bike Trail.
2. Water Department Personnel repaired a 1-inch service line on Mill Stream in the Lower Robinson Ranch Community.
3. Water Department Personnel has been inspecting the two pressure reducing stations and the Brookseed to Dove inter-tie.

Mr. Chadd advised that TCWD has avoided \$800,000 in water purchase costs since the well upgrade has been completed. Mr. Chadd noted the pumps are much more dynamic and responsive than the original pumps and pump more water than originally anticipated.

Mr. Ruiz commented with the continued increased in the cost of purchase water from Metropolitan Water District (MET), the wells project increases in value and the payback time to realize a costs savings will shorten.

The Engineering/Operational Committee received the status updates. No action taken.

ITEM NO. 1I) WASTEWATER SYSTEM STATUS UPDATE

Mr. Kris Hanberg, Wastewater Supervisors, provided the April 2012 status update

Robinson Ranch Wastewater Treatment Plant

1. The reclaimed water production totaled 58 acre feet.
2. The recycled water demand was 42 acre feet.
3. Dove Lake had 2.8 feet of freeboard.
4. The reclaimed water reservoir had 1 foot of freeboard.
5. The District pumped a total of zero acre feet from Dove Lake.
6. The Dry Season Water Recovery Project produced 12 acre feet.
7. There was 7 acre feet pumped to SMWD's Portola Basin.

Projects

1. Wastewater Department Personnel repaired a line break on the Dry Season Recovery System at Tick Pump Station.
2. Wastewater Department Personnel added Anthracite media to filters.

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Discussion occurred related to reclaimed water sales to SMWD and the anticipated increase in water sales once the Shadow Rock Detention Basin Facility Project has been completed.

Director Safranski commented on the information provided at the April, 2012 Community Association of Rancho meeting by SMWD relating to cooperative projects with TCWD.

The Engineering/Operational Committee received the status update. No action taken.

ITEM NO. 1J) APRIL 2012 OPERATIONAL REPORT REVIEW

Mr. Chadd advised the information is there for review and there are no anomalies to report.

**ITEM NO. 1K) ENGINEERING/OPERATIONAL COMMITTEE MEETING
RECAP**

No changes were made to the April 10, 2012 Engineering/Operational recap.

The Engineering/Operational Committee recommended that the Board receive and file the April 10, 2012 Engineering/Operational Committee Meeting Recap. (Consent Calendar).

ITEM NO. 1L) OTHER MATTERS/REPORTS

There were no other matters or reports discussed at the Committee meeting.

ADJOURNMENT

Committee Chair Safranski adjourned the May 8, 2012 Engineering/Operational Committee Meeting at 7:45 a.m.