



**ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA  
TRABUCO CANYON WATER DISTRICT  
ADMINISTRATION FACILITY  
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CA  
JANUARY 7, 2026 AT 8:00 AM**

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**COMMITTEE MEMBERS**

Mark Anderson, Committee Chair  
Glenn Acosta, Committee Member  
John Horst, Committee Member Alternate

**DISTRICT STAFF**

Larry McKenney, General Manager  
Michael Perea, Assistant General Manager  
Lorrie Lausten, District Engineer  
Gary Kessler, Water System Superintendent  
Oscar Ulloa, Wastewater Superintendent  
Jason Stroud, Maintenance Superintendent

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**AGENDA NOTE:**

*Trabuco Canyon Water District (District) will make this Engineering/Operational Committee Meeting available by telephone audio as follows:*

**Telephone Audio:** 1 (669) 900-6833

**Access Code:** 986-4866-8880

*Persons desiring to monitor the Committee meeting agenda items may download the agenda and documents on the internet at [www.tcwd.ca.gov](http://www.tcwd.ca.gov). You may submit public comments by email to the Committee at [mperea@tcwd.ca.gov](mailto:mperea@tcwd.ca.gov). In order to be part of the record, emailed comments on meeting agenda items must be received by the District at the referenced e-mail address not later than 7:00 a.m. (PDT) on the day of the meeting.*

**CALL MEETING TO ORDER**

**VISITOR PARTICIPATION**

*Members of the public wishing to address the Committee regarding a particular item on the agenda are requested to submit public comments at the time of the meeting or by email to the Committee at [mperea@tcwd.ca.gov](mailto:mperea@tcwd.ca.gov). The Committee Chair will call on the visitor following the Committee's discussion about the matter. Committees do not constitute a quorum of the Board of Directors and Committee Members cannot make decisions on matters. The Committee makes recommendations only to the Board of Directors. Members of the public will be given the opportunity to speak to the Committee prior to making a recommendation on the matter. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.*

**ORAL COMMUNICATION**

*Members of the public who wish to make comment on matters not appearing on the agenda are requested to submit oral communication at the time of the meeting by email to the Committee at [mperea@tcwd.ca.gov](mailto:mperea@tcwd.ca.gov). Under the requirements of State Law, Directors cannot take action on items not identified on the agenda and will not make decisions on such matters. The Board President may direct District Staff to follow up on issues as may be deemed appropriate. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.*

**COMMITTEE MEMBER COMMENTS**

**REPORT FROM THE GENERAL MANAGER**

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | JANUARY 7, 2026**

**ENGINEERING MATTERS**

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**PRESENTER(S):**

Michael Perea, Assistant General Manager  
Lorrie Lausten, District Engineer

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

**RECOMMENDED ACTION:**

*Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar).*

1. December 10, 2025 Committee Meeting

**ITEM 2: DIMENSION WATER TREATMENT PLANT PIPELINE REHABILITATION PROJECT**

**RECOMMENDED ACTION:**

*Recommend the Board of Directors authorize the General Manager to approve a contract change order for the DWTP Transmission Main Rehabilitation Project – Phase 2A to TE Roberts in the not-to-exceed amount of \$915,998 (Action Calendar).*

**ITEM 3: DOVE/TICK CREEK PUMP STATION DESIGN UPDATE**

**RECOMMENDED ACTION:**

*Recommend the Board of Directors authorize the General Manager to award a professional services contract for the Dove and Tick Creek Station Improvements to AKM Consulting Engineering in the amount of \$511,412 plus a 10% contingency of \$51,141, for a not-to-exceed amount of \$562,553 (Action Calendar).*

**ITEM 4: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES**

1. Other Projects

**RECOMMENDED ACTION:**

*Committee to receive project status updates at the time of the Committee Meeting.*

**OPERATIONAL MATTERS**

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**PRESENTER(S):**

Gary Kessler, Water System Superintendent  
Oscar Ulloa, Wastewater Operations Superintendent  
Jason Stroud, Maintenance Department Superintendent

**ITEM 5: WATER SYSTEM UPDATES**

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*

**ITEM 6: WASTEWATER SYSTEM UPDATES**

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*



**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | JANUARY 7, 2026**

**ITEM 7: MAINTENANCE DEPARTMENT UPDATES**

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*

**REGULATORY AND OTHER MATTERS**

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**ITEM 8: OTHER MATTERS/REPORTS**

**RECOMMENDED ACTION:**

*Hear Other Matters/Reports that may have arisen after the posting of the agenda.*

**ADJOURNMENT**

**AVAILABILITY OF AGENDA MATERIALS**

*Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Trabuco Canyon Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the Trabuco Canyon Water District Administrative Facility, 32003 Dove Canyon Drive, Trabuco Canyon, California (District Administrative Facility) or will be posted online on the District's website located at [www.tcwd.ca.gov](http://www.tcwd.ca.gov). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available online at [www.tcwd.ca.gov](http://www.tcwd.ca.gov) at the same time as they are distributed to the Board Members, except that, if such writings are distributed immediately prior to or during the meeting, they will be posted online on the District's website located at [www.tcwd.ca.gov](http://www.tcwd.ca.gov).*

**COMPLIANCE WITH THE REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE SECTION 54954.2**

*In compliance with California law and the Americans with Disabilities Act, if you need special disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please contact the District Secretary at (949) 858-0277, at least 48 hours in advance of the scheduled Board meeting. Notification at least 48 hours prior to the meeting will assist the District in making reasonable arrangements to accommodate your request. The Board Meeting Room is wheelchair accessible.*



**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**ENGINEERING MATTERS**

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

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***RECOMMENDED ACTION:***

*Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar):*

- 1. December 10, 2025 Committee Meeting*

**CONTACTS (staff responsible): PEREA/LEJSEK**



**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | DECEMBER 10, 2025**

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**DIRECTORS PRESENT**

Mark Anderson, Committee Chair  
Glenn Acosta, Committee Member

**STAFF PRESENT**

Michael Perea, Interim General Manager  
Lorrie Lausten, District Engineer  
Gary Kessler, Water Superintendent  
Oscar Ulloa, Wastewater Superintendent  
Jason Stroud, Maintenance Superintendent  
Dave Rodriguez, Principal Engineer  
Karen Warner, Principal Accountant  
Roseann Lejsek, Executive Assistant  
Phil Serpas, CMMS/SCADA Administrator

**STAFF ABSENT**

None

**DISTRICT CONSULTANTS**

Justin Roberts, T.E. Roberts  
Tori Yokoyama, Hazen and Sawyer

**PUBLIC PRESENT**

None

**CALL MEETING TO ORDER**

Director Anderson called the December 10, 2025 Engineering/Operational Committee Meeting to order at 8:00 a.m.

**VISITOR PARTICIPATION**

No comments were received.

**ORAL COMMUNICATION**

No comments were received.

**COMMITTEE MEMBER COMMENTS**

None

**REPORT FROM THE INTERIM GENERAL MANAGER**

Mr. Perea reported on the following matters:

- Mr. Perea introduced Mr. Dave Rodriguez as the District's new full-time Principal Engineer and noted that Mr. Rodriguez was in attendance to answer any questions related to ongoing projects.

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | DECEMBER 10, 2025**

- The District's Chat with TCWD Community Forum will be held the following evening at 6:30 p.m. with Directors Acosta and Horst.

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

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Mr. Perea presented the Engineering/Operational Committee Meeting Recap for Committee review in accordance with the agenda.

**RECOMMENDATION:** The Committee recommended forwarding this matter to the Board of Directors (Consent Calendar).

**ITEM 2: SADDLE CREST RESERVOIR OUTLET IMPROVEMENTS CONSTRUCTION CONTRACT AWARD**

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Mr. Perea presented this matter for Committee consideration. Ms. Lausten provided an overview of the ongoing challenges associated with the existing inlet/outlet pipeline design, and she stated that the project's objective is to install a dedicated outlet pipeline to promote flow out of the Saddle Crest Tank, allowing the tank level to fluctuate and trend with the level in the Harris Grade tanks under all supply and demand conditions. Ms. Lausten presented a bid comparison summary, and she stated that staff recommends awarding a construction contract to JA Salazar Construction & Supply Corp.

**RECOMMENDATION:** Recommend the Board of Directors authorize the Interim General Manager to award a Construction contract for the Saddle Crest Reservoir Outlet Improvement Project to JA Salazar Construction & Supply Corp. in the amount of \$172,720 plus a 10% contingency of \$17,272, for a not-to-exceed amount of \$189,992 (Action Calendar).

**ITEM 3: ROBINSON RANCH WASTEWATER TREATMENT PLANT BLOWER ROOM MOTOR CONTROL CENTER (MCC) IMPROVEMENTS – PHASE 1 & PHASE 2 EMERGENCY WORK**

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Mr. Perea presented this matter for Committee consideration. Ms. Lausten reported that staff and engineering consultants identified critical electrical issues within the Motor Control Center (MCC) that require immediate attention. Mr. Ulloa presented photos of the existing electrical equipment, and he noted that the overall project scope remains unchanged, but that the order of project tasks is being adjusted.

**RECOMMENDATION:** Recommend the Board of Directors authorize the Interim General Manager to award a construction contract for the WWTP Blower Room MCC Improvements to Hydrotech Electric in the amount of \$362,993.56 plus a 10% contingency of \$36,299.00 for a not-to-exceed amount of \$399,292.56 (Action Calendar).

**ITEM 4: TCWD'S PARTICIPATION IN THE MWDOC CONSERVATION FRAMEWORK TECHNICAL ASSISTANCE PROGRAM (TAP)**

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Mr. Perea presented this matter for Committee consideration, and he reported that effective January 1, 2025, the Making Conservation a California Way of Life regulatory requirements and compliance reporting went into effect. Mr. Perea stated the Municipal Water District of Orange County (MWDOC) has contracted with Environmental Incentives with funding assistance from Metropolitan Water District of Southern California (MET) and the United States Bureau of Reclamation (USBR) to develop a technical assistance program (TAP) to help member agencies to meet these requirements. Mr. Perea also reported that as a MWDOC member agency, the District has contracted with Environmental Incentives to assist with compliance targets and framework requirements. Mr. Perea noted that the previous General Manager and staff have been working toward compliance with these new legislative requirements.

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | DECEMBER 10, 2025**

The Committee requested additional information regarding any potential penalties for non-compliance. Mr. Perea stated that fees are typically assessed for noncompliance, and that he would report back to the Committee with more specific information.

**RECOMMENDATION:** None. Informational item only.

**ITEM 5: DOVE/TICK CREEK PUMP STATION DESIGN UPDATE**

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Mr. Perea presented this matter for Committee consideration, and he reported that the District has been approved for approximately \$1 million in grant funding for this project through US Bureau of Reclamation (USBR) and the South Orange County Integrated Regional Watershed Management Area (IRWM). Ms. Lausten reported that the proposed design costs for the project are higher than anticipated due to the cost of identified environmental compliance requirements, and she requested guidance from the Committee on how to proceed. Ms. Lausten also reported that staff is not ready to move forward on the project at this time, however the matter is time sensitive due to the two-year deadline for use of grant funding. Ms. Lausten stated that staff is working to negotiate lower fees, and discussion occurred regarding the causes of the elevated costs. Discussion also occurred regarding the potential impact of recent environmental regulatory changes to the project.

**RECOMMENDATION:** None. Informational item only.

**ITEM 6: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES**

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**1. Dimension Water Treatment Plant Pipeline Rehabilitation Project**

Ms. Lausten reported that Phase 1A was complete, including testing at the Dimension Water Treatment Plant (DWTP) and that Phase 1B was in progress. Ms. Lausten presented the November Construction Report, and she provided a brief summary. Ms. Lausten reported that staff has evaluated a potential strategy to start a portion of Phase 2 of the project in order to reduce overall project costs and maintain momentum. Mr. Justin Roberts, with T.E. Roberts noted the potential challenges and additional costs of demobilizing and returning the equipment back to the east coast upon completion of Phase 1B, and then remobilizing in winter 2026.

The Committee requested that this matter be brought to the full Board for consideration. Mr. Perea stated that this matter will be agendaized for committee consideration at the January meeting with additional information and associated costs/savings.

**2. System Wide Water Pipeline Condition Assessment**

Ms. Lausten reported that staff is beginning an analysis of all assets and pipelines to project a 50-year budget. Discussion occurred regarding budgeting for future pipeline replacement projects.

**3. Other Projects**

Ms. Lausten provided a brief update on Plano Sewer Lift Station Bypass Improvements that were approved by the Interim General Manager. Mr. Perea added that this small project was a critical improvement to improve the bypassing of wastewater at the interconnection with SMWD and to protect TCWD equipment at the sewer lift station.

**RECOMMENDATION:** None – Informational item only.

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | DECEMBER 10, 2025**

**ITEM 7: WATER SYSTEM UPDATES**

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Mr. Kessler reviewed the projects and repairs for the prior month, and he reported that Water Operations staff had completed the following tasks:

1. Removed 16" valve on filter 4 at DWTP in preparation to repair 20" Victaulic Coupling on effluent side.
2. Worked with Meter Tech to replace 1" curb stop on Mill Stream.
3. Worked to replace two 2" service saddles in Falcon Estates.
4. Continued to work closely with contractors on Main Transmission Line Repair.

Mr. Kessler presented the Water System Summary for Committee review, and he provided additional information regarding the condition of the curb stops in Falcon Estates. Discussion occurred regarding the proactive identification of any issues and addressing any needed repairs.

**RECOMMENDATION:** None – Informational item only.

**ITEM 8: WASTEWATER SYSTEM UPDATES**

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Mr. Ulloa reviewed the projects and repairs for the prior month, and he reported that Wastewater Operations staff had completed the following tasks:

1. Repaired two recycled water leaks on the 3" line at the WWTP.
2. Repaired a 2" potable water leak at the WWTP.
3. Complete washdown of the Belt Press at the WWTP.
4. Removed a 10' tank and equipment pad that were no longer in service.

Mr. Ulloa presented the Recycled Water System Summary for Committee review, and he reported that reservoir level was at 1260 feet and that Dove Lake had 3 feet of freeboard. Mr. Ulloa also reported that that Dove/Tick Dry Season production was 2.3 acre-feet.

**RECOMMENDATION:** None – Informational item only.

**ITEM 9: MAINTENANCE DEPARTMENT UPDATES**

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Mr. Stroud reviewed the projects and repairs for the prior month, and he reported that Maintenance staff completed the following tasks:

**Projects and Repairs**

Maintenance staff performed and/or completed the following tasks and projects:

**Water Operations**

1. Installed new air vent line on Saddle Crest emergency diesel fuel tank. Repaired damaged level/alarm indicators.
2. Job walk at Saddle Crest for new pipeline.

**Wastewater Operations**

1. Placed new 20' storage bin at WWTP. Loaded up with spare equipment.
2. La Habra Fence working at Barneburg LS replacing swing gate.
3. Job walk at WWTP blower room.

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | DECEMBER 10, 2025**

**District Fleet Upgrades & Other Projects**

1. Remodeled lunchroom to have direct bathroom access.
2. Working with OC Commercial Doors to repair damaged doors and upgrade with panic push bars.

**RECOMMENDATION:** None – Informational item only.

**ITEM 10: OTHER MATTERS/REPORTS**

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Mr. Perea updated the Committee in relation to non-compliance for the Making Conservation a California Way of Life framework, penalties range from \$500 to \$10,000 per day depending on Statewide drought status. The Committee expressed appreciation for the additional information and recognized the importance of the District's participation in the Conservation Framework TAP.

**RECOMMENDATION:** None

**ADJOURNMENT**

Director Anderson adjourned the November 5, 2025 Engineering/Operational Committee Meeting at 8:46 a.m.

DRAFT

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**ENGINEERING MATTERS**

**ITEM 2: DIMENSION WATER TREATMENT PLANT PIPELINE REHABILITATION PROJECT**

**Background**

Trabuco Canyon Water District (TCWD or District) owns and operates the Dimension Water Treatment Plant (DWTP) in the City of Lake Forest. The DWTP receives raw untreated water via a connection to the SAC line and filters and treats up to 6 cubic feet per second (CFS) of drinking water for TCWD customers. The Board of Directors awarded two construction contracts to TE Roberts Construction (Contractor) for the first phase (Phases 1A & 1B) of the DWTP transmission main rehabilitation project at the June 18, 2025 Regular Board Meeting. In conjunction with structural work on Filter No. 4 within DWTP (completed October 9, 2025), the project will restore operations for the District’s most reliable and cost-effective drinking water supply source.

**Project Status Update**

Attached for Committee review is the November monthly construction report from Butier (Exhibit 1). Construction for Phase 1A has been completed. Phase 1B continued through the month of November with approximately 1,000 LF of Pipe Bursting activities, along with videos of the upstream sections, pit excavations and connections. The contractor is currently installing 1,000 LF per week of 16” PVC Pipe via the pipe bursting method. The open cut pipe installation and connection will be constructed after the pipe bursting is completed.

District staff was asked to continue the project design and have requested a proposal from Hazen for the analysis and recommendations for Phase 2 (Exhibit 1).

District staff discussed with the Committee the potential acceleration of a portion of the Phase 2 project scheduled for winter 2026-27 (approximately 1,800 LF of pipe bursting on the northerly portion of the project area) due to the efficient construction progress thus far. The table below quantifies the projected construction costs starting in February 2026 as opposed to February 2027. Completing the project now has advantages of efficiency, holding current bid prices, and spending less time on more expensive imported water from the IRWD/Ridgeline connection. These efforts would have the potential to save the District approximately \$485,000 as demonstrated in the following:

<b>February 2026</b>				
<u>Item No.</u>	<u>Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Total</u>
1	Contract (1)	1	LS	\$915,000
2	IRWD/RL Water Delivery (2) (3)	1	Month	\$135,000
			<b>Total:</b>	<b>\$1,050,000</b>
(1) Holding Bid Pricing except for increase in AC due to City Permitting Requirements				
(2) Based on rates effective January 2026; DWTP vs. IRWD Water = \$866/ AF Premium				
(3) Based on a 5-yr avg of 1950/AF=163 AF/month				
<b>February 2027</b>				
<u>Item No.</u>	<u>Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Total</u>
1	Contract (1)	1	LS	\$1,235,250
2	IRWD/RL Water Delivery (2) (3)	2	Month	\$300,000
			<b>Total:</b>	<b>\$1,535,250</b>
(1) Includes mob/demob, construction material increase, higher cost/LF due to low quantity of pipe=+35%				
(2) Based January 2027 with an assumed 6% increase; DWTP vs. IRWD Water = \$918/ AF Premium				
(3) Based on a 5-yr avg of 1950/AF=163 AF/month				

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

District staff recommends the approval and authorization of the attached contract change order to proceed with this portion of the Project Phase 2A replacement of 1,800 LF of pipeline for a not-to-exceed amount of \$915,988. More information may be provided at the time of the meeting.

**FUNDING SOURCE:**

Capital Improvement Program

**FISCAL IMPACT (FY25/26):**

FY 2025-26 Project Budget:	\$7,000,000
Phase 1A & 1B Contract with TE Roberts (Incl. 10% Contingency):	\$6,065,902

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**FY 2025-26 Remaining Budget: \$ 934,098**

**RECOMMENDED ACTION(S):**

*Recommend the Board of Directors authorize the General Manager to approve a contract change order for the DWTP Transmission Main Rehabilitation Project – Phase 2A to TE Roberts in the not-to-exceed amount of \$915,998 (Action Calendar).*

**EXHIBITS:**

1. Hazen Phase 2 Design Proposal
2. Pipeline Change Order Exhibit

**CONTACTS (staff responsible): PEREA/LAUSTEN**



Hazen and Sawyer  
7700 Irvine Center Drive, Suite 200  
Irvine, CA 92618

November 5, 2025

Ms. Lorrie Lausten, P.E.  
District Engineer  
Trabuco Canyon Water District  
32003 Dove Canyon Drive  
Trabuco Canyon, CA 92679

**Subject:** Proposal for Transmission Main Rehabilitation Support – Phase 2 Evaluation

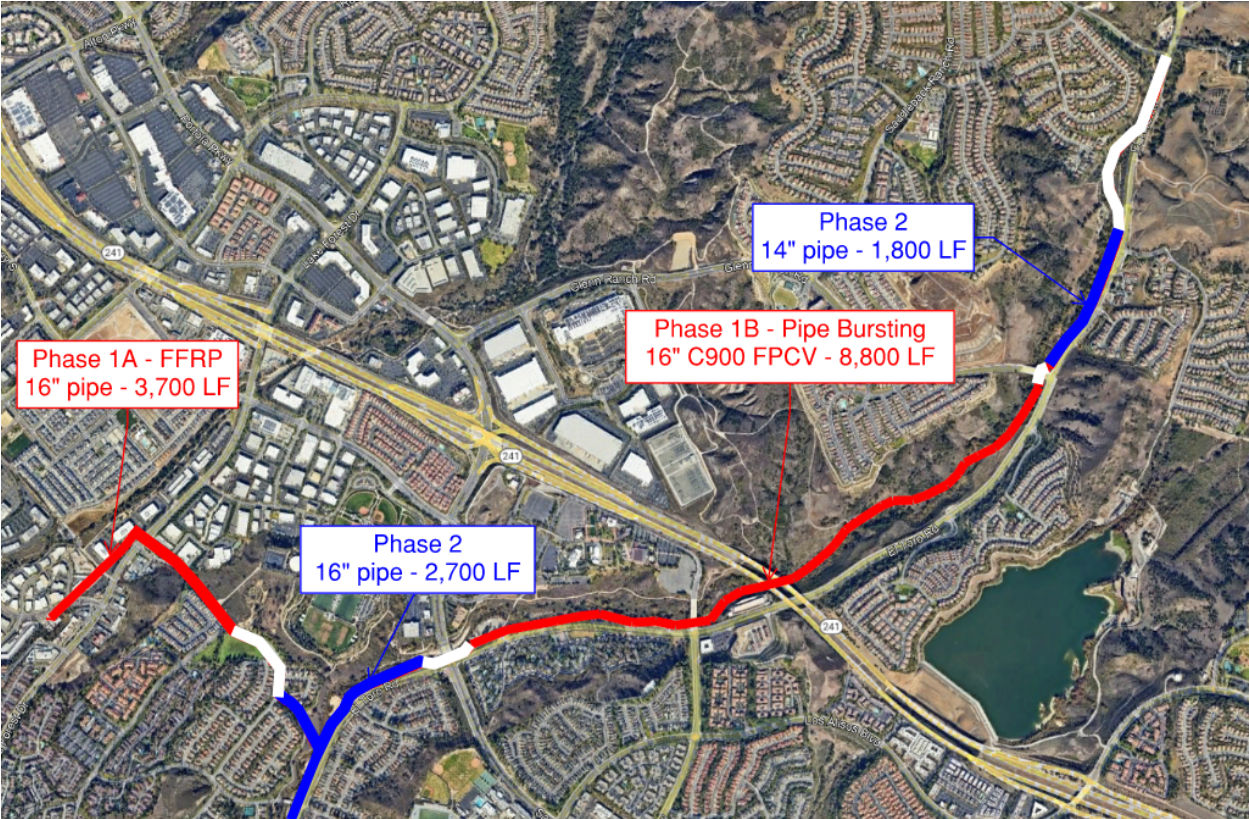
Dear Lorrie:

Construction is underway on Phase 1 of the rehabilitation of the DWTP transmission main. We look forward to providing continued support to the District and construction team, while also developing a plan to implement the Phase 2 improvements.

Phase 2 will consist of rehabilitating or replacing approximately 4,500 LF of 16” CML&C welded steel TCWD transmission main in three different portions:

1. From the 16” butterfly valve along Regency Lane just south of Brighton Lane (installed as part of the 1998 T.T. 14069 Water Relocation Plan, through the an undeveloped ravine on the north side of the homes along Pembroke Lane to Aliso Creek Bikeway, to the 16” WSP elbow on the west side of Portola Parkway (installed as part of the 1989 Watermain Relocation- El Toro Road at Portola Parkway Project).
  - This portion of the pipeline was deferred to Phase 2 due to:
    - the topographic relief and environmental sensitivity of Aliso Creek.
    - An environmental assessment and associated permitting will be required.
2. Pipe connecting from Section 1 above within the Aliso Creek Bikeway to a tie-in connection west of El Toro Road before crossing into a residential neighborhood between Larchmont Drive and Cranbridge Drive for an intertie connection. This was deferred since it had direct connection to Section 1.
3. From the 14” WSP elbow on the north side of Glenn Ranch Road (shown in the 1989 Sewer Main Relocations at El Toro and Glenn Ranch Road Project) to the southern 24” butterfly valve on the north side of the El Toro and Walley Vista Way intersection (installed as part of the 1986 Improvement Plans for El Toro Road Project).
  - This portion was determined to be in good enough condition to delay its replacement until Phase 2.

The approximate limits of the Phase 1 and Phase 2 improvements are shown.



The scope of work and project budget are shown in the following sections.

## Scope of Work

The scope of work for this analysis will include the following:

- Task 1 - Phase 2 Rehabilitation Analysis and Tech Memo (T&M, not to exceed)
  - An alternatives analysis will be performed to evaluate the most feasible and constructible approach for completing these three portions as part of Phase 2, considering trenchless versus open-cut methods, environmental constraints, and schedule impacts. This scope will include:
    - Alternatives alignment and rehab analysis, including check of hydraulics
    - Tech Memo
    - Assumptions:

- The three defined sections (Regency Lane to Portola Parkway, Aliso Creek Bikeway intertie, Glenn Ranch to Valley Vista Way) will be included in this analysis.
- Topographic survey information available from Phase 1 and District records is assumed sufficient for analysis.
- TM will identify potential permitting needs and constraints.
- Constructability assumptions are based on known soil/groundwater conditions from adjacent or recent projects.
- Hydraulic analysis will assume existing pump station operations and pressure with rehabilitated conditions.
- Planning level cost estimates will be Class 4 from Phase 1 bids and industry references.
- Construction schedule assumptions will be based on typical trenchless and open-cut durations.

## Fee

The fee associated with this proposal is included on the attached table.


Should you have any questions or comments with regards to this letter, please feel free to contact me at (949) 351-4559 or [tyokoyama@hazenandsawyer.com](mailto:tyokoyama@hazenandsawyer.com).

Sincerely,

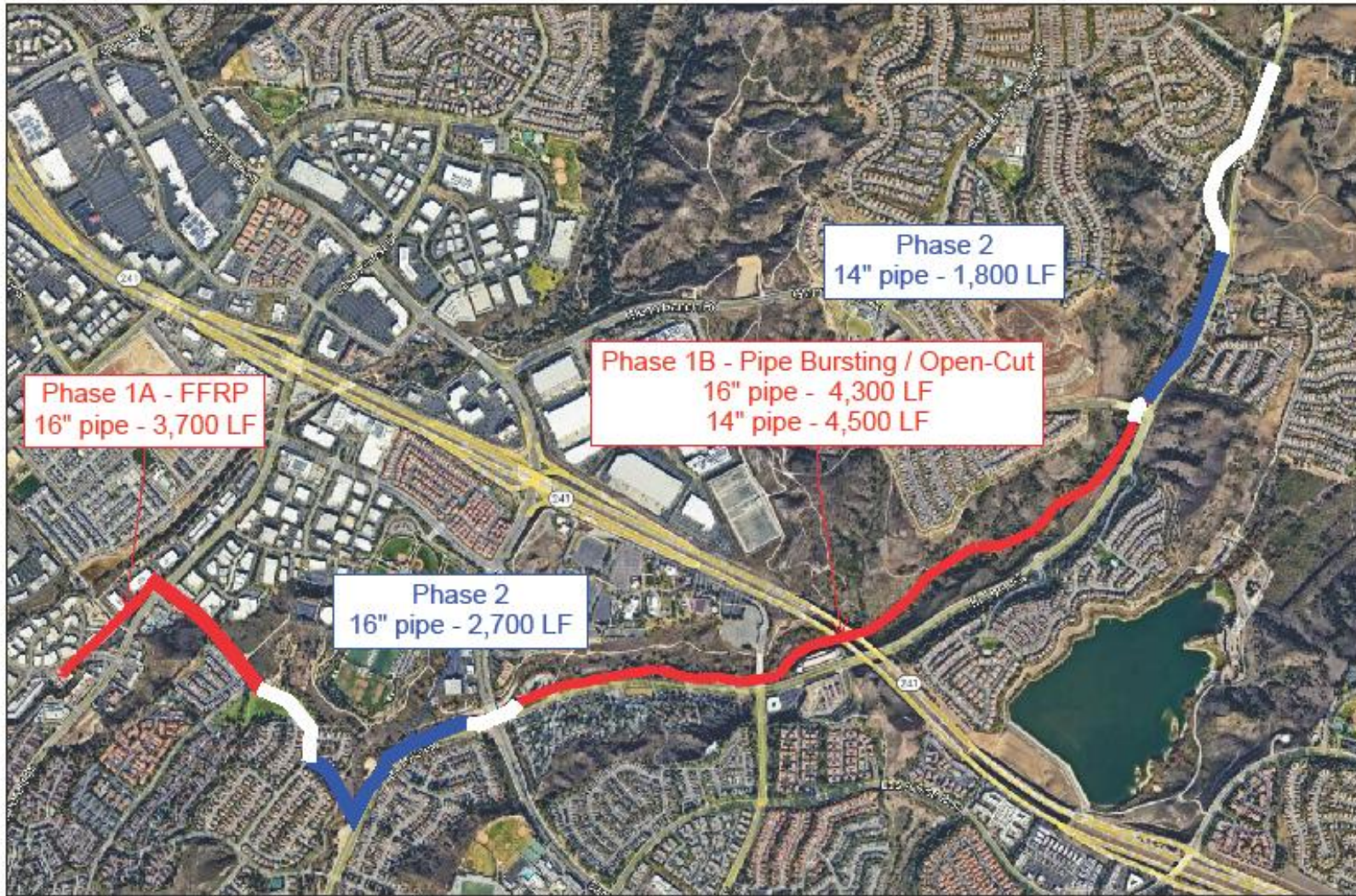


Tori Yokoyama, PE  
Associate Vice President

**Fee Schedule**  
 Trabuco Canyon Water District  
 Transmission Main Rehabilitation Analysis

	Hazen and Sawyer									
	Principal-in-Charge	Project Manager	Technical Advisor/ QAQC	Principal Engineer	Assistant Engineer	Cost Estimator				
	\$350	\$340	\$320	\$230	\$185	\$330				
							TMH	Labor	ODC	Total
<b>Task 1 - Phase 2 Rehab Analysis and Bid Package (T&amp;M, NTE)</b>										
Rehab Analysis	4	20	12	80	120	20	256	\$59,240	\$0	\$59,240
Tech Memo	4	10	4	40	40	8	106	\$25,320	\$0	\$25,320
<b>TASK 1 TOTAL</b>	<b>8</b>	<b>30</b>	<b>16</b>	<b>120</b>	<b>160</b>	<b>28</b>	<b>362</b>	<b>\$84,560</b>	<b>\$ -</b>	<b>\$ 84,560</b>
<b>GRAND TOTAL</b>	<b>8</b>	<b>30</b>	<b>16</b>	<b>120</b>	<b>160</b>	<b>28</b>	<b>362</b>	<b>\$84,560</b>	<b>\$0</b>	<b>\$84,560</b>

# TRABUCO CANYON WATER DISTRICT DWTP Transmission Main Rehabilitation – Phase 2A



# TRABUCO CANYON WATER DISTRICT

## DWTP Transmission Main Rehabilitation – Phase 2A

### DIMENSION WATER TREATMENT PLANT TRANSMISSION MAIN REHABILITATION - PHASE 2A- PIPE BURSTING

Orig Bid Item	Description	Quantity	Unit	Unit Cost	Total Cost
1	Mobilization / Demobilization	1	LS	\$126,000.00	\$0.00
2	Traffic Control	1	LS	\$8,400.00	\$8,400.00
3	Sheeting, Shoring, and Bracing	1	LS	\$22,400.00	\$22,400.00
4	Water Pollution Control	1	LS	\$23,810.00	\$23,810.00
5	Pre-Rehabilitation Cleaning and Inspection	1,800	LF	\$10.00	\$18,000.00
8	Replace 14-inch CML&C steel with 16-inch DR 18 C900 PVC using pipe bursting (includes pits)	1,800	LF	\$271.00	\$487,800.00
-	Replace Existing 6" Service To FH and Customer (1)	1	EA	\$15,000.00	\$15,000.00
13	Remove Existing Appurtenance/Fitting/Valve (no replacement) in Existing Unpaved Area	2	EA	\$7,650.00	\$15,300.00
14	Final Paving (bike trail) (2)	6,000	SF	\$9.00	\$54,000.00
15	Record Documents	1	LS	\$8,788.00	\$8,788.00
18	Allowance: Replace Existing 14-inch CML&C Steel with 16-inch DR 18 C900 restrained joint PVC by open-cut construction (3)	500	LF	\$325.00	\$162,500.00
19	Allowance for unforeseen changes to the scope (paid only with District approval) (4)	1	LS	\$100,000.00	\$100,000.00
			TOTAL :		\$915,998.00

(1) Item is TBD but based on similar connections on Phase 1B

(2) Unit Cost is based on Permit requirements from the Agencies & on full bike lane replacement. Quantity is an estimate only.

(3) Allowance item to be utilized in open cut construction. This item offsets pipe-bursting cost.

(4) Allowance item for unforeseen conditions

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**ENGINEERING MATTERS**

**ITEM 3: DOVE & TICK CREEK PUMP STATIONS UPDATE - DESIGN & ENVIRONMENTAL PROFESSIONAL SERVICES**

Dove and Tick Creek Pump Stations are important components of Trabuco Canyon Water District’s (District) Dry Season Water Recovery Program (Exhibit 1). These pump stations, located at the south end of Dove Canyon Development, capture urban runoff and convey it to Dove Lake, where it is blended with tertiary water for use in the District’s recycled water system to offset reliance on potable water for irrigation purposes.

The planned Dove and Tick Creek Pump Station Improvements will upgrade the Dove and Tick Creek Pump Stations to increase capture of both dry weather runoff and stormwater (wet weather flows) to produce 200 Acre-Feet per Year (AFY) of new non-potable water.

These improvements will double the current amount of captured runoff by upgrading the pump stations with larger pumps capable of handling debris and moving a greater volume of water. Additionally, the project improvements will result in expanding the area of captured flow, improving debris capture, and improving the storm drain overflow to prevent flooding and damage to equipment. These improvements will increase the volume of water that can be conveyed through the system above current capacities. The project also includes a new desilting basin to improve water quality prior to blending. By reducing dry weather flows, the project will also provide ecosystem benefits to downstream native habitat, as urban runoff carries nitrates and other pollutants downstream and disperses nonnative seeds and vegetation, which negatively impacts Audubon Society’s 4,000-acre Starr Ranch Sanctuary.

The District has received the following grants for the project:

- South OC-Prop 1 IRWM - \$389,500 – 50% match required
- USBR WaterSMART Drought Resiliency Program – \$577,584 – 50% match required from a Non-Federal Source

On November 20, 2025, the District received two proposals for the design and environmental work for the Project (Exhibit 2). Staff have evaluated proposals, conducted interviews with each firm, and revised the project to negotiate lower design and environmental services costs. Each proposer was able to cut 15-20% of design fee with the new scope, while still meeting the requirements and goals of the grant reimbursement. Staff will be completing a smaller portion of the work not detailed in the grant with an outside contractor. District staff recommends the approval of the professional services contract with AKM Consulting Engineering for the project design and environmental work. More information may be provided at the time of the meeting.

**FUNDING SOURCE:**

Capital improvement Program

**FISCAL IMPACT (PROJECT BUDGET):**

FY 2025-26 Project Budget:	\$1,119,400
Engineering Design & Environmental Contract:	\$ 562,553
<hr/>	
<b>FY 2025-26 Remaining Budget:</b>	<b>\$ 556,847</b>
Total Project Grants Awarded -	\$ 967,084

**ENVIRONMENTAL COMPLIANCE:**

TBD

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**RECOMMENDED ACTION:**

*Recommend the Board of Directors authorize the General Manager to award a professional services contract for the Dove and Tick Creek Station Improvements to AKM Consulting Engineering in the amount of \$511,412 plus a 10% contingency of \$51,141, for a not-to-exceed amount of \$562,553 (Action Calendar).*

**EXHIBIT(S):**

1. Project Overview
2. Proposal Evaluation-Revised

**CONTACTS (staff responsible): PEREA/LAUSTEN**

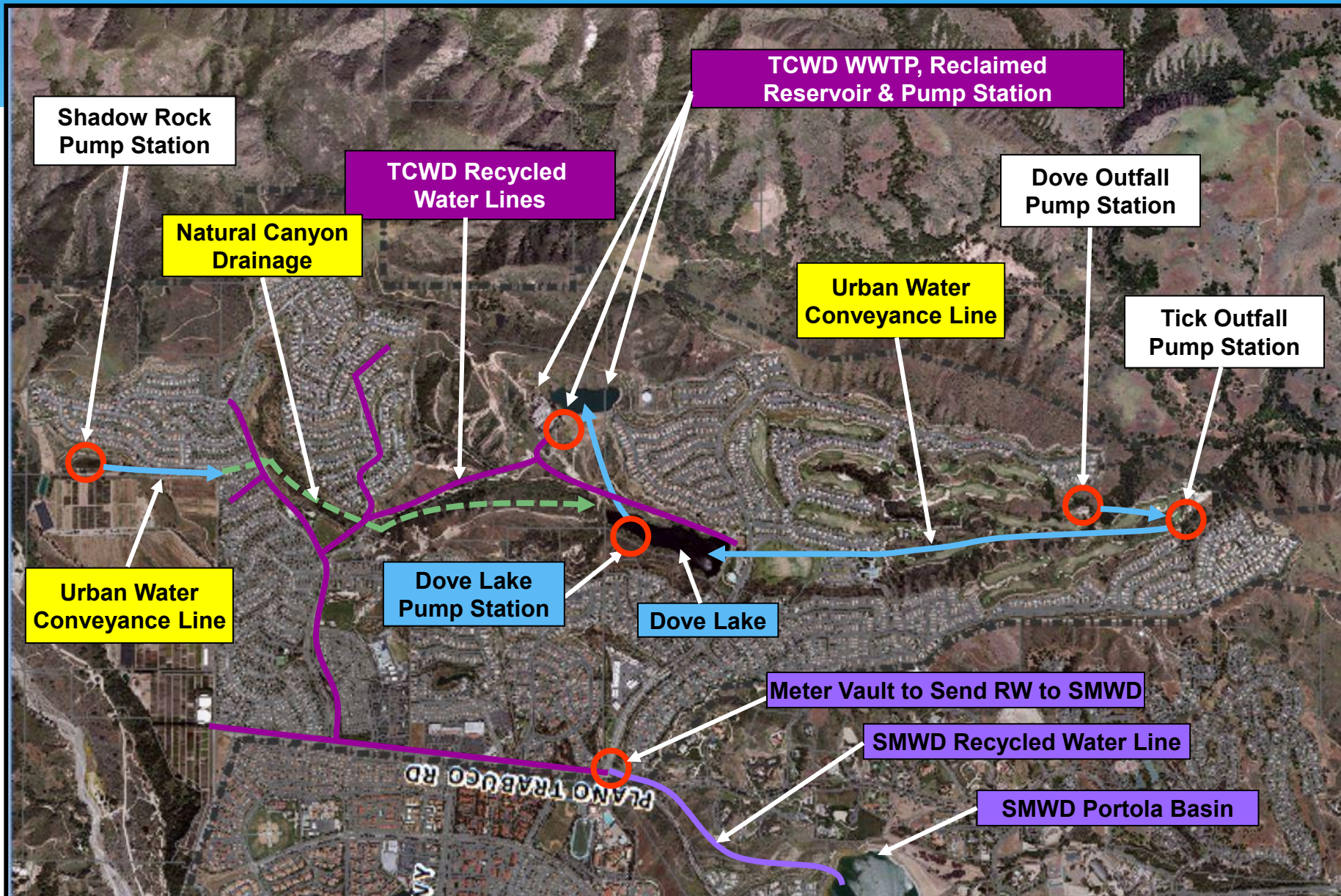
# TRABUCO CANYON WATER DISTRICT

## Runoff Capture and Reuse Upgrades at Dove Canyon & Tick Creek Pump Stations



Dove Lake

# RECYCLED/RECLAIMED WATER SYSTEM



# DOVE & TICK CREEK IMPROVEMENTS

## Runoff Capture and Reuse Upgrades at Dove Canyon & Tick Creek Pump Stations

### **PURPOSE:**

Expand and improve the Dove Outfall Pump Station and Tick Outfall Pump Station to increase capture of dry weather runoff and stormwater to produce at least 200 AFY of new non-potable water.

### **APPROVED FUNDING:**

- \* South OC-Prop 1 IRWM - \$389,500 – 50% match required
- \* USBR WaterSMART Drought Resiliency Program – \$577,584 – 50% match required from a non-Federal Source



<b>PROPOSAL EVALUATION</b>			
<b>Design of Dove Creek &amp; Tick Creek Pump Stations Improvement Project - RW-23-FY25</b>			
<b>Category</b>	<b>Weight</b>	<b>Score (1-100)</b>	
		<b>MKN</b>	<b>AKM</b>
<b>Project Approach/Scope of Services</b>	40%	3	3
Project Approach, Understanding of the Scope of Work & Level of Effort on the Proposal		2	3
<b>Qualifications and experience of the Proposer related to the services described in this RFP</b>	20%	3	3
Team Expertise & Experience (Qualifications, Registrations, Licenses), including subconsultants		3	3
<b>Proposer's understanding of the project and subject matter expertise</b>	20%	2	3
Firms Experience on Similar Projects, Local Staffing			
<b>Proposer's ability and available resources to perform the requested services</b>	10%	2	3
<b>Proposed project cost</b>	10%	2	3
<b>Total Weighted Score:</b>	100%	<b>2.4</b>	<b>2.7</b>
<b>Subconsultants</b>			
Environmental/Geotechnical/Survey/Electrical		ESA, AESCO, Calvada	Ninyo & Moore, Kelsoe, Helix, Mark Balan
<b>Labor *</b>		<b>MKN</b>	<b>AKM</b>
Task 1 - Project Management		104	44
Task 2 - Environmental Study & Documents Preparation		100	66
Task 3 - Preliminary Design Phase		206	684
Task 4 - Construction Documents		744	294
Task 5 - Construction Bidding Assistance		86	32
Task 6 - Engineering Services During Construction		210	174
Task 7 - Additional Engineering Services		0	0
<b>Total:</b>		<b>1,450</b>	<b>1,294</b>
<b>Budget</b>		<b>MKN</b>	<b>AKM</b>
Task 1 - Project Management		\$ 29,310.00	\$ 10,818.00
Task 2 - Environmental Study & Documents Preparation		\$ 223,632.00	\$ 194,646.00
Task 3 - Preliminary Design Phase		\$ 74,105.00	\$ 193,691.00
Task 4 - Construction Documents		\$ 162,290.00	\$ 61,976.00
Task 5 - Construction Bidding Assistance		\$ 18,334.00	\$ 8,192.00
Task 6 - Engineering Services During Construction		\$ 46,501.00	\$ 42,089.00
Task 7 - Additional Engineering Services		\$ -	\$ -
<b>Total:</b>		<b>\$554,172</b>	<b>\$511,412</b>
<b>\$/Manhour</b>		<b>\$ 382.19</b>	<b>\$ 395.22</b>
* Labor hours do not include subconsultants			

\* The environmental items will be on an as required bases per the project, contract not to exceed.

**Subconsultants:**

MKN: 1. ESA (Environmental), 2. AESCO (Geotechnical) 3. Calvada (Surveying)

AKM: 1. Ninyo & Moore (Geotechnical) 2. Kelsoe (Surveying) 3. Helix (Environmental) 4. Mark Balan (Electrical)

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**ENGINEERING MATTERS**

**ITEM 4: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES**

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1. Other Projects

***RECOMMENDED ACTION:***

*Committee to receive project status updates at the time of the Committee Meeting.*

**EXHIBIT(S):**

None

**CONTACTS (staff responsible): PEREA/LAUSTEN**

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**OPERATIONAL MATTERS**

**ITEM 5: WATER SYSTEM UPDATES**

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The following is a brief report of the water system through **December 2025**.

**Projects and Repairs**

Water Operations staff performed and/or completed the following tasks and projects:

1. Replaced leaking fire hydrant on Huntknoll Drive in the Trabuco Highlands community
2. Recoated and painted the pumps and pipes at Rose Canyon Booster Pump Station
3. Assisted Customer Service Field Technician with residential curb stop replacement on El Toro Road
4. Continued to work with contractors on the DWTP Transmission Line Rehabilitation Project

**Monthly Water System Operations Summary**

The Monthly Water System Operations Summary is attached for the Committee's review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*

**EXHIBITS**

1. Monthly Water System Operations Summary

**CONTACTS (staff responsible): PEREA/KESSLER**

**TRABUCO CANYON WATER DISTRICT**  
**MONTHLY WATER SYSTEM OPERATIONS SUMMARY - 2025**

<b>SYSTEM PRODUCTION/SUPPLIES</b>	<b>JAN</b>	<b>FEB</b>	<b>MARCH</b>	<b>APRIL</b>	<b>MAY</b>	<b>JUNE</b>	<b>JULY</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>TOTAL</b>
Number of Days	31	28	31	30	31	30	31	31	30	31	30	31	365
<i>Dimension WTP</i>	8%	17%	25%	33%	42%	50%	58%	67%	75%	83%	92%	100%	
SAC Pipeline Meter	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Backwash, AF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Flushwater, AF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
DWTP Effluent (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
<b>Groundwater, AF</b>													
Trabuco Creek GWTF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
U.S. Well AF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Groundwater (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
<b>Water Purchases, AF</b>													
SMWD Treated Interconnection	21.0	8.9	7.0	31.0	28.4	39.4	35.1	54.8	55.7	21.3	5.1		307.7
IRWD Treated Interconnections	119.4	90.3	104.7	106.5	126.0	126.8	165.3	161.7	149.5	145.7	111.3		1,407.2
IRWD Irvine Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Purchases (3)	140.4	99.2	111.7	137.5	154.4	166.2	200.4	216.5	205.2	167.0	116.5		1,714.9
<b>Total Supply</b>													
Total Supply AF (1,2,3)	140.4	99.2	111.7	137.5	154.4	166.2	200.4	216.5	205.2	167.0	116.5		1,714.9
% Year - Peak Prod. - 2,449 AF (2018)	6%	10%	14%	20%	26%	33%	41%	50%	58%	65%	70%		70%
AF/Day	3.9	3.3	3.4	3.7	5.0	5.5	6.5	7.0	6.8	5.3	3.9		5.0
CFS/Day, Avg.	2.0	1.6	1.7	1.9	2.5	2.8	3.2	3.5	3.4	2.7	1.9		2.4
<b>Reservoir Storage</b>													
Monthly Average, MG	9.1	9.1	9.0	9.0	9.1	9.1	9.1	9.1	9.0	9.0	9.0		9.1
Monthly Average, AF	27.9	27.9	27.0	27.0	27.9	27.9	27.9	27.9	27.0	27.0	27.0		27.7
Days of Storage	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0		3.8
<b>SYSTEM DEMANDS</b>													
<b>District Operations, AF (1)</b>													
Dimension WTP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Robinson Ranch WWTP	0.040	0.040	0.040	0.080	0.040	0.080	0.040	0.040	0.040	0.040	0.040		0.520
Supplemental Domestic to RW Res.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.00
Subtotal	0.040	0.040	0.040	0.080	0.040	0.080	0.040	0.040	0.040	0.040	0.040		0.52
<b>System Losses, AF (2)</b>													
Flushing	2.30	3.00	2.30	2.30	2.30	2.30	2.30	2.30	1.50	1.5	1.5		23.60
Sewer Cleaning	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		0.22
Line Breaks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	2.5		4.50
Subtotal	2.32	3.02	2.32	2.32	2.32	2.32	2.32	2.32	1.52	3.52	4.02		28.32
<b>Zone Demands, AF (3)</b>													
Topanga Canyon	2.9	Inop.	Inop.	3.0	3.0	3.0	3.1	3.2	3.0	2.9	2.8		26.90
Falcon Estates	0.40	0.2	0.4	0.7	0.7	0.8	0.9	0.9	0.8	0.8	0.4		6.98
Rose PRV/The Oaks	0.7	0.7	0.8	0.90	1.2	1.3	1.5	2.3	1.9	1.5	0.9		13.65
Canyon Creek	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2		2.65
Rose Pump Station	0.2	0.3	0.3	0.4	0.4	0.5	0.4	0.4	1.6	2.0	2.0		8.51
Robinson Ranch	34.5	19.4	20.0	35.7	42.9	54.0	64.8	66.3	51.6	39.3	24.7		453.2
Dove Canyon	61.7	45.4	49.1	55.4	64.2	64.9	76.6	77.5	74.6	63.9	48.7		682.0
Subtotal	100.6	66.2	70.8	96.3	112.6	124.7	147.6	151.0	133.8	110.7	79.7		1,193.8
<b>Total System Demand (1,2,3)</b>	<b>103.0</b>	<b>69.3</b>	<b>73.2</b>	<b>98.7</b>	<b>115.0</b>	<b>127.1</b>	<b>150.0</b>	<b>153.4</b>	<b>135.3</b>	<b>114.2</b>	<b>83.7</b>		<b>1,222.7</b>

**TRABUCO CANYON WATER DISTRICT**  
**MONTHLY WATER SYSTEM OPERATIONS SUMMARY - 2025**

<b>System Demands**</b>													
AF/Day	3.9	3.3	3.4	3.7	4.2	5.5	6.5	7.0	6.8	5.3	3.9		4.9
Daily Average, CFS	2.0	1.6	1.7	1.9	2.1	2.8	3.2	3.5	3.4	2.7	1.9		2.5
<b>Other Water Deliveries/Purchases</b>													
Ridgeline (DWTP Delivery)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
El Toro (Interconnection Purchase)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Baker WTP (CSC Delivery)	98.6	89.7	90.2	103.7	68.0	88.9	77.6	62.5	65.5	53.5	75.3		873.5
Portola Hills (Wholesale Purchase)	10.0	7.5	8.2	7.8	9.1	10.6	10.5	13.2	12.2	11.2	11.2		111.4
Skyridge (Wholesale Purchase)	1.8	1.6	1.6	1.4	1.6	2.0	2.0	2.3	2.3	2.1	2.2		20.8
* Usage estimated													
** Excludes Operational use, losses, and supplement to Recycled Water Reservoir (RW)													

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**OPERATIONAL MATTERS**

**ITEM 6: WASTEWATER SYSTEM UPDATES**

The following is a brief report of the wastewater system through **December 2025**.

**Projects and Repairs**

Wastewater Operations staff performed and/or completed the following tasks and projects:

1. Repaired the 2” Cla-Val at Portola Basin intertie
2. Replaced the Sutorbilt blower at the Robinson Ranch Wastewater Treatment Plant (WWTP)
3. Repaired a leaking 6” airline at the WWTP
4. Built a new airline to be installed in the East SBR tank at the WWTP
5. Quarterly wet well cleaning completed at sewer lift stations
6. Quarterly F.O.G. (Fats, Oil, and Grease) source control inspections at commercial accounts completed

**Sewer System Management Plan (SSMP) Report**

The purpose of the program is to communicate on a regular basis with the public on the development, implementation, and performance of TCWD’s SSMP. Status updates on the work and type of work performed on the sewer system will be provided, including sewer line and manhole cleaning, system repairs, lift station cleaning, and updates from satellite facilities:

<b>Sewer System Management Plan (SSMP) Monthly Update</b>	
Total Sewer Line, Feet*	212,045
<b>Total Sewer Line Cleaned (Ft) – Month</b>	<b>0</b>
Total Sewer Line Cleaned (Ft) – Cleaning Cycle	212,045
Cleaning Cycle Period (Mos.) [Start date: 1/1/25]	12
<b>Total Sewer Line Cleaned, %</b>	<b>0%</b>
The Oaks at Trabuco – Pumping Frequency for the Month	14
O’Neill Park Sewer System Status	Ok
O’Neill Park Sewer System Repairs	None
SSMP Quarterly Report – <i>Next Quarterly Report</i>	4Q 2025
SSMP Program Audit – <i>Next Audit Report**</i>	February 2026

\*This amount includes the OC Parks-owned O’Neill Park sewer system the District is contracted to clean.

\*\*Periodic internal audits shall be conducted, at a minimum every two years, with reports kept on file. The audit shall focus on evaluating the effectiveness of the SSMP and TCWD’s compliance with the mandatory elements of TCWD’s SSMP:

**Monthly Recycled Water System Operations Summary**

The Monthly Recycled Water System Operations Summary is attached for the Committee’s review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

**RECOMMENDED ACTION:**

Committee to receive system status updates. No action required.

**EXHIBITS**

1. Monthly Recycled Water System Operations Summary
2. Sewer System Management Plan (SSMP) Quarterly Report – 4<sup>th</sup> Quarter

**CONTACTS (staff responsible): PEREA/ULLOA**

# TRABUCO CANYON WATER DISTRICT | RECYCLED WATER SYSTEM SUMMARY - 2025

RECYCLED WATER SUPPLY															
	MAX	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
WWTP Reclaimed Water Production, AF	78.3	37.1	35.6	41.5	39.4	39.6	37.8	25.2	37.7	37.8	37.4	39.7		408.7	520.1
Reclaimed Reservoir Level, FT	1274.5	1,265.5	1,270.0	1,271.5	1,271.5	1,270.0	1,264.0	1,258.0	1,257.0	1,253.5	1,252.0	1,259.8		-	-
Reclaimed Reservoir Free Board, FT	25.5	9.0	4.5	3.0	3.0	4.5	10.5	16.5	17.5	21.0	22.5	14.7		-	-
Reclaimed Reservoir Storage, AF	145.5	94.6	118.8	127.7	127.7	118.8	87.5	61.6	58.0	45.2	41.1	69.1		-	-
Supplemental Domestic Water Added, AF	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	5.2
RECYCLED WATER SYSTEM DEMAND															
NON DOMESTIC WATER USER	ALLOC. AF	8% JAN	17% FEB	25% MAR	33% APR	42% MAY	50% JUN	58% JUL	67% AUG	75% SEP	83% OCT	92% NOV	100% DEC	TOTAL	ALLOC. %
Dahlia Court	8.2	0.04	0.02	0.00	0.00	0.15	0.29	0.00	0.74	0.30	0.43	0.02		2.0	24.2%
Dove Canyon Golf Course	106.7	12.49	5.1	4.8	25.1	28.9	31.6	48.0	50.8	30.2	24.1	5.2		266.2	249.6%
Dove Canyon Master Association	279.3	10.92	3.6	3.6	11.2	16.4	17.2	25.9	32.8	13.8	3.9	17.8		157.1	56.3%
Robinson Ranch	80.2	1.41	0.4	0.8	2.8	2.7	2.9	3.2	5.4	3.5	2.5	1.9		27.5	34.3%
Trabuco Highlands	159.7	3.26	27.4	0.2	5.3	6.6	6.0	10.1	7.6	6.3	4.6	1.8		79.1	49.6%
City of RSM	0.1	0.00	0.02	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		0.18	137.7%
Construction Water	N/A	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.00	N/A
Sakaida Nursery	1.1	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.00	0.0%
SMWD	N/A	0.00	0.0	0.0	0.0	4.4	8.1	5.4	6.4	4.0	2.1	0.3		30.6	N/A
TY Nursery	17.9	0.00	0.00	0.0	0.01	2.6	3.7	6.8	4.6	0.0	0.0	0.0		17.9	99.9%
<b>TOTAL, AF</b>	<b>653.2</b>	<b>28.1</b>	<b>36.5</b>	<b>9.4</b>	<b>44.3</b>	<b>61.9</b>	<b>69.8</b>	<b>99.5</b>	<b>108.4</b>	<b>58.2</b>	<b>37.6</b>	<b>27.0</b>		<b>580.6</b>	<b>88.9%</b>
<b>PERCENTAGE OF NDW ALLOCATION/YEAR</b>		<b>4.3%</b>	<b>9.9%</b>	<b>11.3%</b>	<b>18.1%</b>	<b>27.6%</b>	<b>38.3%</b>	<b>53.5%</b>	<b>70.1%</b>	<b>79.0%</b>	<b>84.8%</b>	<b>88.9%</b>			
<b>TOTAL ANNUAL AVG. NDW AVAILABLE**</b>	<b>774.36</b>														
URBAN RUNOFF CAPTURE AND REUSE															
DISTRICT FACILITY		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
Shadow Rock Detention Basin Production		0.00	10.19	8.18	0.00	0.00	0.00	0.60	0.46	0.54	1.57	-		21.54	1.6
Dove   Tick Creek Production*	<i>Dry Season</i>	5.5	5.3	5.8	0.0	0.0	0.0	3.4	3.6	2.7	3.2	2.3		31.8	45.0
	TCWD Portion	5.5	5.3	5.8	0.0	0.0	0.0	1.7	1.8	1.4	1.6	2.3		25.3	-
	SMWD Portion	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.8	1.4	1.6	0.0		6.5	-
Dove Lake Water Pumped		0.0	0.0	0.0	0.0	0.0	0.0	45.1	53.0	18.8	0.0	0.0		116.9	190.1
Dove Lake Free Board, Ft		10.3	3.2	0.0	0.0	0.0	0.0	4.0	7.5	8.6	7.6	3.1		-	-
Dove Lake Storage, AF		131.2	309.0	331.0	331.0	331.0	331.0	294.2	210.0	156.4	180.0	308.0		-	-
Total Rainfall, In.		0.9	2.4	5.2	0.2	0.5	0.3	0.0	0.0	0.2	1.2	4.9		15.7	16.2

\*\* Based on 5-Year Average Reclaimed Water Reservoir Base Supply & Recycled Water Production

**TRABUCO CANYON WATER DISTRICT**  
**Sewer System Management Plan (SSMP) Quarterly Report**

**Report Date:** January 1, 2025  
**Report Period:** Fourth Quarter 2025 - December 2025  
**Prepared By:** Oscar Ulloa, Wastewater Operations Superintendent

District Sub-Section	Santiago/Portola Hills			Dove Canyon			Rancho Cielo/Walden			Robinson Ranch/Trabuco Highlands		
	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed
Sewer Line Cleaned, Feet	44,625	44,625	100%	64,135	64,135	100%	29,865	29,865	100%	59,170	59,170	100%
Manholes, Inspected/Cleaned	205	205	100%	212	212	100%	124	124	100%	236	236	100%
Manholes Needing Repair	0	0	0%	0	0	0%	0	0	0%	0	0	0%
Wet Wells, Inspected/Cleaned	2	2	100%	3	3	100%	1	1	100%	2	2	100%
Lift Stations, Inspected/Maintained	2	2	100%	3	3	100%	1	1	100%	2	2	100%
Grease Interceptors Inspected	2	2	100%	2	2	100%	10	10	100%	n/a	n/a	n/a

*Note: All Sewage Lift stations are inspected 3-4 times a week*

Contract Services	O'Neill Park/OCFA			The Oak's		
	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed
Sewer Line Cleaned, Feet	12,700	12,700	100%	1,550	0	0%
Manholes, Inspected/Cleaned	95	95	100%	5	0	0%
Manholes Needing Repair	0	0	0%	0	0	100%
Wet Wells, Inspected/Cleaned	1	1	100%	2	2	100%
Lift Stations, Inspected/Maintained	1	1	100%	1	1	100%
Grease Interceptors Inspected	0	0	0%	0	0	100%

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**OPERATIONAL MATTERS**

**ITEM 7: MAINTENANCE DEPARTMENT UPDATES**

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The following is a brief report of work completed by Maintenance staff through **December 2025**.

**Projects and Repairs**

Maintenance staff performed and/or completed the following tasks and projects:

**Water Operations**

1. Performed load banking on the emergency backup generator at the Saddle Crest Booster Pump Station
2. Serviced Water Department vehicles

**Wastewater Operations**

1. Repaired an air release valve on the compressor at El Toro Sewer Lift Station
2. Cleared a new area and graded the hillside at the WWTP for future Vactor truck parking
3. Re-graded and maintained fire roads at WWTP due to rain events

**District Fleet Upgrades & Other Projects**

1. Assisted in Arc Flash job walk with P2S and Hydrotech Electric at various District facilities
2. Completed Onboard Diagnostic (OBD) compliance test on the Vactor Truck
3. Completed BIT Inspection on Class A fleet vehicles
4. Completed smog test on all District vehicles
5. Performed ATS transfer checks on all emergency backup generators

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*

**EXHIBITS**

None

**CONTACTS (staff responsible): PEREA/STROUD**

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | JANUARY 7, 2026**

**REGULATORY AND OTHER MATTERS**

**ITEM 8: OTHER MATTERS/REPORTS**

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Other Matters/Reports from the Interim General Manager and/or District staff may be provided at the time of the Engineering/Operational Committee Meeting.

**RECOMMENDED ACTION:**

*Hear Other Matters/Reports that may have arisen after the posting of the agenda.*

**EXHIBITS**

None

**CONTACTS (staff responsible): PEREA**