

SWEETWATER AUTHORITY

Engineering and Operations Committee

February 5, 2025



Consideration to Award a Contract for the Central Wheeler Tank Construction and System Improvements Project and Authorize Construction Related Services

RECOMMENDATION

Staff recommends that the Governing Board authorize the General Manager to do the following:

- a) Award and execute a contract for the Central Wheeler Tank Construction and System Improvements Project with Canyon Springs Enterprises of Temecula, CA, for an amount of \$3,866,615;
- b) Allocate a five percent contingency fund in the amount of \$193,331 for the Canyon Springs Enterprises construction contract;
- c) Execute amendment no. 1 to the on-call construction management and inspection services contract with TKE Engineering, Inc. for an additional \$340,000, for an overall not-to-exceed amount of \$540,000;
- d) Approve a task order for TKE for construction management services for a not-to-exceed amount of \$375,360;
- e) Execute amendment no. 2 to the on-call civil engineering services contract with Ardurra for an additional \$50,000, for an overall not-to-exceed amount of \$450,000;
- f) Approve a task order for Ardurra for construction support services for a not-to-exceed amount of \$99,898;
- g) Approve a task order to Enterprise Automation for SCADA programming and configuration, for a not-to-exceed amount of \$50,000;
- h) Approve a task order to Rockwell Construction Services, LLC for SCADA construction management, for a not-to exceed amount of \$44,000;
- i) Execute amendment no. 1 to the on-call environmental consulting services contract with Dudek for an additional \$150,000, for an overall not-to-exceed amount of \$300,000; and
- j) Approve a task order to Dudek for Mitigation Monitoring and Reporting Program compliance for a not-to-exceed amount of \$183,183.

OVERVIEW

The Authority's previous master planning efforts identified deficiencies in water supply within the Wheeler Pressure Zone of its water distribution system. The only tank in this zone, the existing Wheeler Tank located in Bonita, is smaller than the recommended storage volume for the area to meet both maximum day demand plus fire flow demand. Additionally, the tank does not meet the structural stability requirements for seismic activity, leading to its operation at a reduced capacity. Consequently, the 2020 Water Distribution System Master Plan recommended the construction of a new 0.8 million gallon (MG) Central-Wheeler Tank (CWT) and proposed expanding the Wheeler Pressure Zone to include 187 parcels currently supplied by gravity near San Miguel Road in the communities of Bonita and Sunnyside. These areas occasionally experience water pressure issues, with pressures ranging from 30 to 50 pounds per square inch.

The selected site for the new Central-Wheeler tank is on Sweetwater Reservoir lands adjacent to Summit Meadow Road. The pipeline connecting the future tank site to the existing distribution system on San Miguel Road has been constructed in several phases:

- 2006: Installation of a 16-inch PVC pipe from San Miguel Road, beneath State Route 125, to Summit Meadow Road, covering approximately 1,460 feet.
- 2022: Installation of a 16-inch PVC pipe on Summit Meadow Road, approximately 290 feet, linking to the pipeline constructed in 2006.
- 2024: Installation of a 16-inch PVC pipe in San Miguel Road, approximately 1,000 feet, connecting the end of the existing distribution system to the segment installed in 2006.

See Attachment 1 for detailed locations of the pipeline and tank site.

The design for the tank pad, the drainage pipeline to Sweetwater Reservoir, the remaining 100 linear feet of pipeline, and a chlorine residual control system have been developed. Once the Central Wheeler Tank construction is complete, the pressure zone conversion will be implemented for the 187 parcels on San Miguel Road currently served by the gravity system. This conversion will enhance water pressure levels, ranging from 55 to 75 psi, and will require the installation of a pressure reducing valve for each connection, to be owned and operated by the property owner. Pressure reducing valves are not part of the design package prepared for bids and those would be installed by one of the Authority's on-call contractors.

Mitigation Monitoring and Reporting Program

At its April 14, 2021 meeting, the Board adopted a Mitigated Negative Declaration and a Mitigation Monitoring and Reporting Program (MMRP) for the project, ensuring compliance with the California Environmental Quality Act (CEQA). The MMRP for the project is included as Attachment 2. Compliance with the MMRP is mandatory during the construction phase.

Advertisement and Bids

Upon completion of the Contract Documents, the Project was advertised for bids on November 22, 2024, through PlanetBids, Star News, and the Authority's website. A mandatory pre-bid site walk was held on December 16, 2024, with six prospective prime contractors in attendance. Bids were accepted electronically through PlanetBids to increase accessibility and interest among prospective bidders who might not be able to submit a paper bid in person. The deadline for bid submissions was January 17, 2025. Four bids were received and are outlined below, compared to Ardurra's Opinion of Probable Construction Cost (OPCC) which is estimated at \$3,967,661.

<u>BIDDING CONTRACTOR</u>	<u>BID AMOUNT</u>
Canyon Springs Enterprises	\$ 3,866,615
Covenant Technical Solutions	\$ 4,649,140
Pacific tank & Construction, Inc.	\$ 5,253,474
Innovative Construction Solutions	\$ 5,820,000

Canyon Springs Enterprises submitted the lowest bid that was both responsive and responsible. They hold a Class A general contractor’s license in good standing and have successfully completed similar water system construction projects for other public entities. Based on these qualifications, staff recommends that the Board award the contract to Canyon Springs Enterprises. A bid tabulation of all submissions is provided as Attachment 3. The contract documents require the selected contractor to complete the project within 486 calendar days of receiving a Notice to Proceed (NTP), inclusive of materials’ lead time estimated at 150 calendar days, placing the project completion in fourth quarter of FY 2025-26. Once a NTP is issued, the contractor is required to submit a project schedule, which will indicate the construction period duration.

Additional Services needed during Construction

Additional professional services including construction management, inspection, and SCADA services are required for the Project. Consequently, staff sought proposals from our on-call construction management consultants. TKE Engineering, Inc. (TKE) and Project Professionals Corporation (PPC). PPC did not submit a proposal due to their current workload. TKE, who is familiar with the Project, after conducting a constructability review initially submitted a proposal for construction management services of \$474,585. After staff negotiated with TKE and clarified the anticipated lead times for materials and construction duration the proposal was reduced to a not to exceed amount of \$375,360 (Attachment 4). Staff is also proposing amending the on-call agreement amount with TKE to accommodate this effort. The increase amount for TKE’s agreement is detailed in the Fiscal Impact Section.

Proposals were also requested from on-call SCADA consultants, Enterprise Automation (EA) and Rockwell Construction Services, LLC, to handle SCADA programming/configuration and construction management oversight for SCADA, respectively. EA implemented the Authority’s SCADA system and prepared the SCADA standards that need to be implemented, and currently maintain the SCADA system. The Authority does not have any other on-call consultants to provide SCADA programming/configuration and SCADA construction management services, respectively. Enterprise Automation had submitted a budgetary estimate for SCADA programming and configuration costing \$50,000 (previously approved by the Board on June 26, 2024), and Rockwell has proposed \$44,000 for SCADA construction management (Attachment 5).

Additionally, to ensure ongoing support from the Engineer of Record, a proposal was requested from Ardurra. Ardurra’s proposed amount for construction support services was \$121,756. After staff negotiated with Ardurra and clarified the anticipated lead times for materials and construction duration, the proposal was reduced to a not to exceed amount of \$99,898 (Attachment 6). The proposed changes to the not-to-exceed amounts for Ardurra’s agreement are also detailed in the Fiscal Impact Section.

In compliance with CEQA requirements for the Project, staff requested proposals from three on-call environmental consultants. The proposals covered the scope of preliminary site work monitoring and overall environmental compliance with the MMRP during tank construction.

The proposals received are summarized in Table 1.

Table 1: Proposals Received from the On-call Environmental Consulting Vendors for Compliance with the CWT MMRP

Consultant	Total
Dudek	\$183,182.30
AECOM Technical Services, Inc.	\$260,606.60
Tetra Tech, Inc.	\$266,993.00

Based on review of proposals, Dudek has provided the lowest quote, \$183,182.30, with a satisfactory proposal that understands the required tasks and subtasks as presented below:

- Information Gathering and Pre-Construction Surveys
- Construction Monitoring MMRP including worker sensitivity training, weekly nest surveys, archeological/paleontological/Native American monitoring

Dudek’s proposal also includes two optional tasks for a revegetation plan and post-construction site revegetation, for a total of \$41,445. However, staff does not recommend including these tasks because they would be handled by the construction contractor as part of their required Stormwater Pollution Prevention Plan to address temporary impacts to vegetation. The proposed changes to the not-to-exceed amounts for Dudek’s agreement are also detailed in the Fiscal Impact Section. The submitted proposal from Dudek is included as Attachment 7.

Staff recommends authorizing the General Manager to approve task orders for all five consultants.

FISCAL IMPACT

The FY 2024-25 Budget for the Capital Investment Project Central-Wheeler Tank Construction and System Improvements is \$6,416,000. Canyon Springs Enterprises provided the lowest, responsive, and responsible construction bid of \$ 3,866,615. Additional costs required to complete the Project will cover construction contingency, internal labor, as well as fees for pressure zone conversion for 187 parcel locations, construction management and support, and compliance with the MMRP. The fiscal impact of these expenses is detailed in the table below:

Central Wheeler Tank Construction and System Improvements (20014016)	
FY 2023-2024 carried over for the Project	\$2,416,000
Budget transfer from Sweetwater Dam Improvements (20114012)	<u>\$4,000,000</u>

Central Wheeler Tank Construction and System Improvements (20014016)	
Total project budget	\$6,416,000
Less design and expense to date	<812,303>
Available Project balance:	\$5,603,697
Less project costs:	
Construction contract amount	<3,866,615>
Construction contingency, 5%	<193,331>
Construction Management and Inspection (TKE)	<375,360>
Construction Support-Engineer of Record (Ardurra)	<99,898>
SCADA Programming/Configuration (Enterprise Automation)	<50,000>
SCADA Construction Management (Rockwell)	<44,000>
MMRP Compliance (Dudek)	<183,183>
Pressure Zone Conversion, 187 Locations*	<252,450>
Project budget balance	\$538,860

* Estimated cost for each pressure conversion is \$1,350 including labor and materials.

The proposed amendment of the existing on-call contract with TKE is as follows

TKE's not-to-exceed contract increase for the Central Wheeler Tank Construction and System Improvements Project	
Current approved not-to-exceed amount	\$200,000
Proposed Increase	<u>340,000</u>
Proposed not-to-exceed amount	\$540,000
Less Cost:	
Central Wheeler Tank-Constructability Review	<9,725>
Tank Rehabilitation 2025-Constructability Review	<11,365>
Deep Anode Well Replacement-CM/Inspection	<38,400>
General as-needed engineering costs expended	<59,490)

TKE's not-to-exceed contract increase for the Central Wheeler Tank Construction and System Improvements Project	
Proposed CM Services for Central Wheeler Tank	<375,360>
Balance of contract available for other as-needed projects outlined in original agreement	\$105,450*

* TKE's 2025 Tank Rehabilitation Program CM proposal with the estimated fee of \$98,000 is currently under review.

The proposed amendment of the existing on-all contract with Ardurra is as follows.

Ardurra's not-to-exceed contract increase for the Central Wheeler Tank Construction and System Improvements Project	
Current approved not-to-exceed amount	\$400,000
Proposed Increase	<u>50,000</u>
Proposed not-to-exceed amount	\$450,000
Less Cost:	
Central Wheeler Tank-Design Services	<149,853>
Evaluate the Perdue Water Treatment Plant Clearwell	<190,623>
General as-needed engineering costs expended	<340,476>
Proposed Construction Support for Central Wheeler Tank	<99,898>
Balance of contract available for other as-needed projects outlined in original agreement	\$9,626

The proposed amendment of the existing on-call environmental services contract with Dudek is as follows.

Dudek's not-to-exceed contract increase for the Central Wheeler Tank Construction and System Improvements Project	
Current approved not-to-exceed amount	\$150,000
Proposed Increase	<u>150,000</u>
Proposed not-to-exceed amount	\$300,000
Less Cost:	

Dudek's not-to-exceed contract increase for the Central Wheeler Tank Construction and System Improvements Project	
Proposed Construction Support for Central Wheeler Tank	< \$183,183 >
Balance of contract available for other as-needed projects outlined in original agreement	\$116,817

Options

1. Authorize the General Manager to do the following:
 - a) Award and execute a contract for the Central Wheeler Tank Construction and System Improvements Project with Canyon Springs Enterprises of Temecula, CA, for an amount of \$3,866,615;
 - b) Allocate a five percent contingency fund in the amount of \$193,331 for the Canyon Springs Enterprises construction contract;
 - c) Execute amendment no.1 to the on-call construction management and inspection services contract with TKE Engineering, Inc. for an additional \$340,000, for an overall not-to-exceed amount of \$540,000;
 - d) Approve a task order for TKE for construction management services for a not-to-exceed amount of \$375,360;
 - e) Execute amendment no. 2 to the on-call civil engineering services contract with Ardurra for an additional \$50,000, for an overall not-to-exceed amount of \$450,000;
 - f) Approve a task order for Ardurra for construction support services for a not-to-exceed amount of \$99,898;
 - g) Approve a task order to Enterprise Automation for SCADA programming and configuration, for a not-to-exceed amount of \$50,000;
 - h) Approve a task order to Rockwell Construction Services, LLC for SCADA construction management, for a not-to exceed amount of \$44,000;
 - i) Execute amendment no.1 to the on-call environmental consulting services contract with Dudek for an additional \$150,000, for an overall not-to-exceed amount of \$300,000; and
 - j) Approve a task order to Dudek for Mitigation Monitoring Reporting Program compliance for a not-to-exceed amount of \$183,183.

2. Other direction as determined by the Governing Board.

Staff Contact:

Carlos Quintero, General Manager

Roberto Yano, Assistant General Manager

Erick Del Bosque, Director of Engineering and Operations

Kay Kim, Engineering Manager

SUPPORTING INFORMATION

Attachments

1. Project Location Map
2. Mitigation Monitoring and Reporting Program
3. Bid Summary
4. TKE-CM and Inspection Proposal
5. Rockwell- SCADA CM Proposal
6. Ardurra-Construction Support Proposal
7. Dudek-Environmental Monitoring Proposal
8. Staff Presentation

Strategic Plan

Strategic Plan Goal 2: System and Water Supply Reliability (SR) – Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.

- Objective SR1: Implement the following recommendations of the current Water Distribution Master Plan: FY 2024-25 pipeline replacements and new pipelines for capacity, reliability and redundancy; additional water storage capacity in deficient zones; and develop Standard Operating Procedure for the AC Pipe Testing Program, per approved Fiscal Year Budget.
 - o Task 001.00: Complete design, advertise for bids, and construct new Central-Wheeler Tank (carryover budget).

Past Board Actions

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|-------------------|--|
| November 13, 2024 | The Board authorized the General Manager to execute an amendment to the on-call agreement for engineering services with Ardurra for an additional \$200,000 resulting in a total not-to-exceed amount of \$400,000. |
| November 13, 2024 | The Board authorized e the General Manager to execute On-call Environmental Consulting Services contracts with Aecom Technical Services, Dudek, and Tetra Tech Inc., with each contact having a one-year duration with options for the General Manager to execute four additional annual renewals based on satisfactory performance, and with each contract having a not-to-exceed limit of \$150,000 for the contract duration. |
| June 26, 2024 | The Board awarded the following contracts: \$316,500 for SCADA Design Consulting to Rockwell Construction Services, Vista, CA; and \$656,400 for SCADA Integration to Enterprise Automation, Irvine, CA, for the FY 2024-25 SCADA Expense and Capital Projects. |
| May 22, 2024 | The Board authorized the General Manager to execute on-call construction management and inspection consulting services contracts with TKE Engineering, Inc. of San Diego, CA, for a not-to-exceed amount of \$200,000, for a twelve-month |

	period from the date of the agreement execution, with four one-year possible extensions subject to future board approval.
January 29, 2024	The Board authorized the General Manager to approve a task order for Ardurra Group, Inc. to perform engineering design services for the New Central Wheeler Tank for a not-to-exceed amount of \$149,853.
June 28, 2023	The Board adopted Resolution 23-13, adopting a Budget for FY 2023-24.
April 14, 2021	The Board adopted Resolution 21-07, adopting a Mitigated Negative Declaration and a Mitigation Monitoring and Reporting Program under the California Environmental Quality Act for the Central-Wheeler Tank and Systems Improvements Project, and Approved the Project.