

ENGINEERING COMMITTEE

AGENDA

Thursday, June 16, 2022
2:00 p.m.

Calaveras County Water District
120 Toma Court
San Andreas, California 95249

The following alternatives are available to members of the public to watch these meetings and provide comments to the Board before and during the meeting:

Microsoft Teams meeting

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ORDER OF BUSINESS

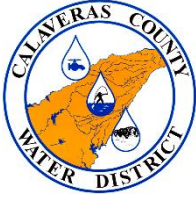
CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. **PUBLIC COMMENT:** Comments limited to three minutes per person.
2. **APPROVAL OF MINUTES:** For the meeting of April 26, 2022
3. **NEW BUSINESS**
 - a. Commercial Meter Policy Discussion and Review
 - b. Accessory Dwelling Unit (ADU) Policy Discussion and Review
 - c. West Point & Wilseyville WWTP Consolidation Project (CIP 15091)
 - d. Corp Yard Site Improvements Discussion and Review
 - e. Cell Tower Lease Updates
4. **OLD BUSINESS**
 - a. Capital Improvement Updates
 - b. Other Project Updates
5. **GENERAL MANAGER COMMENTS**
6. **DIRECTOR COMMENTS**

7. **FUTURE AGENDA ITEMS**

8. **NEXT COMMITTEE MEETING:** Tuesday, September 6, 2022 at 2:00 p.m.

9. **ADJOURNMENT**



CALAVERAS COUNTY WATER DISTRICT ENGINEERING COMMITTEE MEETING

MINUTES
April 26, 2022

Directors/Committee Members present:

Jeff Davidson
Russ Thomas

Staff present:

Michael Minkler	General Manager
Kate Jesus	Engineering Coordinator
Damon Wyckoff	Director of Operations
Charles Palmer	District Engineer
Kevin Williams	Senior Civil Engineer
Sam Singh	Senior Engineering Technician
Jared Gravette	Senior Supervisor Construction & Inspection
Jesse Hampton	Plant Operations Manager
Pat Burkhardt	Construction and Maintenance Manager
John Griffin	Senior Civil Engineer
Tiffany Burke	Administrative Technician Sr.
Rebecca Hitchcock	Executive Assistant/Clerk to the Board
Jessica Self	External Affairs Manager

Others present:

Karl Brustad Peterson Brustad, Inc.

CALL TO ORDER / PLEDGE OF ALLEGIANCE

Director Davidson called the meeting to order at 2:19 p.m.

1. PUBLIC COMMENT:

There was no public comment.

2. APPROVAL OF MINUTES:

The March 1, 2022 minutes were approved by a motion from Director Davidson and seconded by Director Thomas.

3. NEW BUSINESS

a. Capital Improvement Projects 10-Year Review

Mr. Palmer gave a recap of the past ten years of Capital Improvement Projects that have been completed and other projects currently in construction. This includes ten water projects and two other projects currently in construction totaling \$33.8 million including \$11.8 million in grant

funds. Also included are two sewer projects totaling \$5.7 million with two other sewer projects totaling \$18 million currently being publicly bid for construction. The District has received approximately \$9 million in grant funds for these sewer projects.

4. OLD BUSINESS

a. West Point & Wilseyville WWTP Consolidation Project Update

Mr. Palmer stated the District had received four bids ranging from \$8.5 million to \$9.4 million with the lowest bidder being K.W. Emerson, Inc. The contractor will consider an opportunity for value engineering and reducing costs. Staff will continue to work toward a revised construction budget. Staff has considered either proceeding with an award of a contract based on the current bid results or potentially rebidding the project. A rebid will take more time and possibly cause issues with the grant designated deadline to complete construction by January 2024. Staff continues to work with the CWSRF representative for additional funding.

b. Capital Improvement Project Updates

Mr. Wyckoff gave brief updates on the following projects:

- West Point Water Supply Reliability Project (CIP 11106) – The project was advertised for bids on March 17th with a bid opening date of April 20th. The District received two bids with K.W. Emerson being the lowest apparent bidder at a cost of \$1,852,357. Staff will bring the contract bid award to the full Board on May 11th.
- Copper Cove Lift Stations 6, 8, 15, 16 and Force Main Project (CIP 15076/15080) – The project was advertised for bids on February 4th with a bid opening date rescheduled to May 31st due to delays from PG&E electrical plans.
- District Corp Yard (CIP 11101) – The construction of the warehouse has been completed by the contractor, Plummerbuilt with next steps being PG&E power and natural gas service. Plans for Phase 2 of the project which includes interior tenant improvements and site work around the back of the building will start this construction season. Electrical equipment was recently delivered.
- AMI/AMR Project (CIP 11096) – Mueller is currently installing meters in the Jenny Lind and Wallace service areas that will continue through mid-May. Mueller will then complete the remainder of the meters that were skipped for various reasons.
- Ebbetts Pass Redwood Tanks Project (CIP 11095) – California Aquastore has completed Big Trees Tank 8 erection and it is being filled and tested. The Heather Tank foundation has been started and the tank should be delivered mid-May. The Flume Court Tank will begin shortly after. The District has been contacted by T-Mobile to co-locate with Verizon for possible property lease options with the District. Further information will be brought to the full Board.
- Ebbetts Pass Hunter Reservoir Raw Water Pump Cal-OES Hazard Mitigation Project – Phase 1 Design and Environmental Review (CIP 11103) – The consultant, Blackwater, has evaluated multiple alternatives for the new raw water intake. They are currently working on a design to retrofit the existing pumping system at the same location, harden the existing pump house, move pump controls up to the shoreline, provide flushing system for sediment-laden water, and to replace piping from the shoreline up to the Treatment Plant.

The 60% design should be complete by the end of April which will be submitted to FEMA by May 15th.

- Arnold Wastewater Treatment Facility Improvement Project (CIP 15095) – HydroScience prepared the 50% design, which has been reviewed by staff. In light of the increase materials costs, the District is working with a professional project estimator. The project is scheduled to be advertised for bids by the end of Summer 2022.
- Forest Meadows UV Replacement Project (CIP 15106) – The unit has been ordered and should be delivered in August 2022. District staff will work on a site design and the Construction Crew will install the unit and construct the site improvements.
- Sheep Ranch Water Supply Reliability Study and Facilities Master Plan (CIP 11126) – Staff will meet with the consultant, Lumos Engineering to continue work on the Master Plan on April 29th.
- Copper Cove Wastewater Treatment Plant Tertiary Treatment and UV Improvements and Facilities Plan (CIP 15094) – Staff continues to work with the consultant, Keller, on the design of the project.
- Copper Cove Wastewater Treatment Plant – Pond 6 Dam and Effluent Storage Reservoir Enlargement Project (CIP 15112) – District continues to work with the DSOD application and grant funding opportunities.
- Copper Cove Water System Improvements (CIP 11083C, 11111, 11122) – The RFP was issued on February 18th with a total of seven proposed received on March 31st. The lowest proposal was from Peterson Brustad which staff will recommend awarding contract at the May 11th meeting. Staff and the Committee discussed the different phases of the project.
- Jenny Lind A-B Water Transmission Pipeline Replacement Project (CIP 11088) – A kick-off meeting was held on April 7th with Weber Ghio and Coleman Engineering. District staff is working with design firms on hydraulic modeling relating to the project.

c. Other Project Updates

Mr. Wyckoff gave brief updates on the following:

- Sheep Ranch Fire Protection Tank Project – The project is near completion and the ribbon cutting ceremony is scheduled for May 13th.
- Jenny Lind Elementary School Force Main Project – Staff has a standing meeting with the project consultant, KASL Engineering and continue to discuss the second lift station identified as necessary for the project.
- Grant Opportunities – The District was notified that the projects submitted were not selected for this round of funding but will continue to monitor other funding opportunities.
- Construction Projects
 - Gold Creek 3 – The District is waiting on as-builts and continues to work with the Developer for final acceptance of the project.
 - Copper Valley (Saddle Creek 7B) – Finish work, including paving and punchlist items remain to be addressed.
 - Tri-Dam Lake Tulloch Day Use Area – The District continues to work with Tri-Dam on the property easement.
- Developer Projects
 - Copper Valley Town Square – Staff continues routine meetings with representatives of CV Development Partners on the design of the lift station, pump station and force main.

- Hogan Oaks I and II – This proposed development is located near the La Contenta Wastewater Treatment Facility, which concerns staff due to the proximity of the facility. Staff continues to work with the owner on the project.
- Wallace Ridge Estates – This is a proposed development of 30 residential units. Staff is working with the owner’s engineering firm confirming underground well water capacity.
- LGI Homes – This is a proposed development in Rancho Calaveras near Berkeley and Vista Del Lago of 156 residential units. Staff continues to meet with the Developer to discuss necessary system improvements and project details.

5. GENERAL MANAGER COMMENTS

Mr. Minkler gave an update on staff’s work on the Commercial Meter Policy and accuracy of the new AMI meters which have resulted in higher call volume for Customer Service.

6. DIRECTOR COMMENTS

Director Thomas inquired about the possibility of a workshop on Grease Traps, CPPA updates and recycling of the old brass water meters. Mr. Minkler and Mr. Wyckoff clarified.

7. FUTURE AGENDA ITEMS

None.

8. NEXT COMMITTEE MEETING

July 5, 2022 at 2:00 p.m. which will most likely be rescheduled with updates to follow.

9. ADJOURNMENT

There being no further business, the meeting adjourned at approximately 3:26 p.m.

Respectfully submitted,

Kate Jesus
Engineering Coordinator

Agenda Item

DATE: June 16, 2022

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

SUBJECT: Discussion/Direction Regarding Routine Fees for Commercial Water and Sewer Account

SUMMARY:

Recently CCWD has received multiple requests to review commercial water and wastewater accounts to optimize cost-savings for the Customer. Although somewhat different, all keyed into aspects of how Commercial Account Capacity Fees are calculated, periodically reviewed, and billed. Consequently, CCWD Staff have completed a detailed review of how other water and wastewater purveyors work to ensure commercial water and sewer customers are receiving the most efficient, equitable, and cost-effective service.

First District Staff worked to develop four basic questions in order to get at the root of what the District's recent requests have in common. These questions are:

- Do you allow payment of Capacity Fees in increments for W and WW?
- Do you allow for incremental payment of monthly service charges for W and WW?
- Do you provide a mechanism for Commercial Accounts to temporarily pause service for issues such as commercial vacancies?
- Provide a general overview of the process for Commercial Accounts.

Staff then worked to identify like-sized and regional water and wastewater service providers as good candidates for comparison. Staff also reviewed a couple Urban water and wastewater service providers in recognition of the fact that they are more apt to encounter a greater variety of issues associated with Commercial Accounts.

Of the six service provider's policies analyzed, Staff found that while some small provisions to accommodate common Commercial Account requests do exist, they are uncommon. It is evident that most requests made by Commercial Accounts to optimize cost-savings are presented to the Board of Directors as a variance/special circumstance accommodation. Moreover, Staff found the District's own policies associated with capacity fee development and billing are unremarkable in many ways.

It is important to note that some of the service providers polled may in fact have provisions that were not made available to District Staff that may more accurately address direct concerns made by CCWD Customers and that they simply were not on the Purveyor's website or provided when documents were requested.

This item was presented to the CCWD Board on May 25, 2022. The Board referred this item to the Engineering Committee for further consideration of potential policy changes. Staff will present additional information and will be prepared to discuss the implications of potential policy changes.

Agenda Item

DATE: June 16, 2022

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

RE: Accessory Dwelling Unit (ADU) Policy Discussion and Review

SUMMARY

Staff has researched local agencies accessory dwelling unit policies and created a document that compares the water and wastewater policy, capacity/connection fee, and size limitation. Most of the policies use Government Code 65852.2 as a reference. Both documents are available for review by the Committee.

Attachments

Accessory Dwelling Units

Agency	Water Policy/Procedure	Wastewater Policy/Procedure	Capacity/Connection Fee	Size Limitation
Calaveras County Water District	Water service for an accessory dwelling can be provided from the meter of the primary residence only if: 1)The accessory dwelling has been approved by Calaveras County in accordance with the Calaveras County Code Title 17, Chapter 17.66, as may be amended; 2)An accessory dwelling permit from the County is attached to the application for service; 3)A licensed plumber has verified in writing the adequacy of the water meter size "based on the total number of fixture units to be serviced by the meter; and 4)The maximum total floor area does not exceed 900 square feet. Should the meter size increase because of the accessory dwelling, additional capacity fees will be charged. Accessory dwellings that no longer qualify as an accessory dwelling, through actions such as a lot split, shall be required to have a separate sewer connection. Application for service and payment of the appropriate capacity fees and rates shall be required.	The sewer connection of the primary residence, "except those served by a septic tank effluent pump (STEP) system," can provide sewer service for an accessory dwelling if: 1)The accessory dwelling has been approved by Calaveras County in accordance with the Calaveras County Code Title 17, Chapter 17.66, as may be amended; 2)An accessory dwelling permit from the County is attached to the application for service; 3)A licensed plumber has verified in writing the adequacy of sewer service for both the accessory dwelling and the primary residence "based on the total number of fixture units"; and 4)The maximum total floor area does not exceed 900 square feet. Accessory dwellings to be served by a "STEP Sewer System" will be approved and fees determined on a case-by-case basis by CCWD. Accessory dwellings that no longer qualify as an accessory dwelling, through actions such as a lot split, shall be required to have a separate sewer connection. Application for service and payment of the appropriate capacity fees and rates shall be required.	Wastewater capacity fee for the ADU shall be based on 0.55 equivalents. No additional monthly rate shall be charged unless the District determines that flows in excess of 0.55 equivalents are being generated. Should the water meter size increase because of the ADU, additional capacity fees will be charged.	The maximum total floor area does not exceed 900 square feet.
Amador Water Agency	AWA will follow State law applicable to accessory dwelling unit connections, however all service connections remain subject to periodic Agency review of metered usage as compared to the EDU's originally applies for by the Customer.			
Union Public Utility District		n/a	Total WSFU x \$14,000 20 WSFU = Water Supply Fixture Units in accordance with the current version of the CA Plumbing Code	As defined by Gov Code 65852.2: ADU Attached – Not more than 50% of existing primary dwelling square footage ADU Detached – Not more than 1,200 square feet
El Dorado Irrigation District			No additional Facility Capacity Charge (FCC) will be incurred for the addition of a second dwelling on a residential parcel.* The utility billing account will be changed to reflect a Multi-Family rate. *In accordance with Senate Bill No. 229	
San Andreas Sanitary District	n/a	Customers obtain a connection permit for sewer. If adding an ADU results in an increase in the allowed from detailed in their connection permit, the customer must apply for additional capacity.		
Tuolumne Utility District	Nothing explicit but periodic reviews of use result in additional charges.	n/a		
East Bay MUD	For an increase or change in water use caused by the creation of an ADU or JADU, installation fees and capacity charges will be imposed only as authorized by Gov Code Sections 65852.2 and 65852.22. A separate meter may be required for an EDU.	n/a		
Central Contra Costa Sanitary	n/a		JADU = No capacity fee ADU Attached = Per square foot fee under Govt Code 65852.2(f)(5) ADU Detached = Per square foot fee under Govt Code 65852.2(f)(5) Plus annual sewer service charge	Junior ADU – Less than 500 square feet ADU Attached – Not more than 50% of existing primary dwelling square footage ADU Detached – Not more than 1,200 square feet
Napa Sanitation District	n/a		Current Capacity Charge x EDU Factor below: JADU = 0.0 Attached ADU = 0.0 Detached ADU 0-499 sq ft = 0.0 500-599 sq ft = 0.5 600-699 sq ft = 0.6 700-799 sq ft = 0.7 800-899 sq ft = 0.8 900-999 sq ft = 0.9 1,000+ sq ft = 1.0	Junior ADU – Attached ADU that does not exceed 500 square feet Detached ADU – Less than 1,000 square feet.

Agency	Water Policy/Procedure	Wastewater Policy/Procedure	Capacity/Connection Fee	Size Limitation
Ross Valley (San Rafael) Sanitary District	n/a		Sewer Capacity Charges = \$5,987 per EDU A minimum of 1 EDU shall be charged. For additional drainage fixture units (DFU) beyond 23 DFU's, the Capacity Charge shall include an additional \$260/DFU	As defined by Gov Code 65852.2: ADU Attached – Not more than 50% of existing primary dwelling square footage ADU Detached – Not more than 1,200 square feet

ACCESSORY DWELLING UNIT FAQ'S

Can an ADU count towards permissible zoning densities?

An ADU is an accessory use for the purposes of calculating allowable density under the general plan and zoning that does not count toward the allowable density. For example, if a zoning district allows one unit per 7,500 square feet, then an ADU would not be counted as an additional unit. Further, local governments could elect to allow more than one ADU on a lot, and ADUs are automatically a residential use deemed consistent with the general plan and zoning. (Gov. Code, § 65852.2, subd. (a)(1)(C).)

Calaveras County Ord 3097

B. The addition of an accessory dwelling shall be deemed an accessory use or an accessory structure and shall not be considered to exceed the allowable density for the lot upon which it is located and shall be deemed a residential use that is consistent with the general plan and zoning density for the lot. (Ord. No. 3097, § 1, 7-10-2018)

Can I still be charged water and sewer connection fees?

ADUs converted from existing space and JADUs shall not be considered by a local agency, special district or water corporation to be a new residential use for purposes of calculating connection fees or capacity charges for utilities, unless constructed with a new single-family dwelling. The connection fee or capacity charge shall be proportionate to the burden of the proposed ADU, based on its square footage or plumbing fixtures as compared to the primary dwelling. State ADU law does not cover monthly charge fees. (Gov. Code, § 65852.2, subd. (f)(2)(A).)

Are fire sprinklers required for ADUs?

No. Installation of fire sprinklers may not be required in an ADU if sprinklers are not required for the primary residence. For example, a residence built decades ago would not have been required to have fire sprinklers installed under the applicable building code at the time. Therefore, an ADU created on this lot cannot be required to install fire sprinklers. However, if the same primary dwelling recently undergoes significant remodeling and is now required to have fire sprinklers, any ADU created after that remodel must likewise install fire sprinklers.

Are ADU ordinances existing prior to new 2020 laws null and void?

No. Ordinances existing prior to the new 2020 laws are only null and void to the extent that existing ADU ordinances conflict with state law.

Agenda Item

DATE: June 16, 2022

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Charles Palmer, District Engineer

RE: West Point & Wilseyville Wastewater Treatment Plant (WWTP)
Consolidation Project (CIP 15091) - Construction Bids and
Final Budget Approval

SUMMARY

On March 31st, 2022, bids were opened for the Construction of the West Point Wilseyville Wastewater Consolidation Project. K.W. Emerson is the apparent lowest responsive and responsible bidder with a bid of \$8,573,362. Unfortunately, this bid was \$4 million higher than both the Consulting Engineer's Construction Cost Estimate and the approved 100% grant funded dollars provided by the State's Clean Water State Revolving Fund (SRF) program. Raw material availability, manufacturing, and supply chain issues all worked to drastically increase construction costs of the project to the point that actual bids were in no way close to the original cost estimates and corresponding funding request of five years ago. Work began in earnest within the Engineering Department to accomplish two things; 1, value engineer the project to reduce construction costs and 2, request additional funding from SRF. The Engineering Department and its Consultant, NexGen Engineering worked to identify portions of the project that could be eliminated or reduced, while the District Engineer worked with SRF staff to understand if grant funding could be increased for the project.

This project serves a community that fits the State's definition as disadvantaged, provides a regional solution for wastewater treatment, and consolidates two different treatment facilities into one, all of which are prioritized to receive grant funding from SRF. CCWD's Engineering Department was able to receive preliminary concurrence from the State that the current approved grant funding amount of \$4.75 million can be increased up to as much as \$10 million. The District is waiting for Final Budget Approval (FBA) from SRF so that it can proceed with bid award to KW Emerson with assurance of 100% grant funds to cover the full construction costs. This pending authorization is critical because the 90-day period from which bids were received ends June 28th. After bid opening, bidders are required to hold their bid prices for 90-days.

The District must weigh the risk of waiting to receive Final Budget Approval from SRF running out of time to bring it before the Full Board for award vs. waiting too long for that confirmation and thereby being compelled to throw out all bids and re-bid the project. If it does not conflict with the terms of our grant agreement, Staff's recommendation is to proceed with Notice of Award to K.W. Emerson for the Construction of the West

Point/Wilseyville WWTP Consolidation Project without the formality of receiving Final Budget Approval from SRF. Given the fact that the project meets all the requirements for increased project funding and positive feedback from SRF, staff recommends moving forward with the Award of the Construction Contract rather than throwing out the responsive bids. Staff feel that waiting will only add to the cost of the project and waste precious construction time.

Agenda Item

DATE: June 16, 2022

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Kevin Williams, Senior Civil Engineer

RE: Corp Yard Site Improvements Discussion and Review

SUMMARY

Plummerbuilt Construction completed Phase 1 of the Corp Yard Project which included the Building Pad, Building Shell, and Site Improvements along George Reed Drive next door to the District's Administrative Building. Phase 2 of the Project, which is scheduled to be completed this season, includes electrical, tenant improvements, and the remaining site improvements. District Staff is satisfied with the quality and cost of the work already completed by Plummerbuilt Construction. Consequently, Staff approached Plummerbuilt to provide Change Order pricing to complete the Site Improvements as the scope of work is similar to the completed work.

Plummerbuilt Construction provided a cost proposal in the amount of \$475,600 for the Site Improvements. This work includes earthwork/grading, paving, drainage, and the installation of fencing/gates. Staff have reviewed the cost proposal along with the material quantities and the proposal appears to be a good value and in line with the original base bid.

The Design will allow for approximately one-acre of paved space behind the building and will allow vehicles to drive around the entire complex. Plummerbuilt Construction is available to begin work in September.

Additionally, other Phase 2 work is underway. Electrical staff are working on installing the electrical components within the building. PG&E has scheduled a preconstruction meeting for the installation of new electrical and gas services to the building in June and a new standby generator is on order (but will not be delivered until next year due to availability). The design for the interior improvements is complete and under review with the Building Department.

Agenda Item

DATE: June 16, 2022

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Kevin Williams, Senior Civil Engineer

RE: Cell Tower Lease Updates

SUMMARY

T-Mobile Communications and AT&T Mobility have requested to co-locate equipment on the existing Verizon Cellular Tower located on District Property at the Big Trees Tank 4 site and at the West Point Water Treatment Plant. The existing cellular towers were initially designed to allow for two carriers to be installed on the same monopole. The contract with Verizon allows for the sub-lease of empty space on the existing monopole to another carrier for an additional monthly fee to the District of \$500. This monthly fee does not include the lease of additional ground space for equipment required by the second carrier.

T-Mobile has approached Staff with a request to lease additional ground space at Big Trees 4 and AT&T Mobility has approached Staff to lease additional ground space at the West Point Water Treatment Plant.

Staff has determined that there is adequate real estate at West Point Water Treatment Plant for the secondary carrier to install ground equipment and a standby generator adjacent to the existing Verizon equipment. The available space is tighter at the Big Tree Tank 4 location and the District can only provide a small pie shaped piece of property with no room for a standby generator. CCWD is currently replacing the existing Redwood Tank at this location and there is a future project called out in the CIP to upgrade the existing pump station. Inconsideration of these facts, CCWD needs to reserve all usable space at the Big Trees 4 Tank Site in order to complete these Projects. If a standby generator is needed in the future, T-Mobile may be able to install a larger standby generator within the footprint of our existing generator to serve both the cellular network needs along with the standby power needs of the pump station.

Staff received initial lease agreements from both T-Mobile Communications and AT&T Mobility but the terms were less than favorable for the District. It was requested that both entities work to improve their proposals and follow up with CCWD.

Staff is working to achieve concurrence from the Engineering Committee for the described objectives so that should favorable terms be achieved, an Agenda item to approve the contracts can be brought forward to the full Board.

Agenda Item

DATE: June 16, 2022

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Engineering Department

RE: Capital Improvement Project Updates

- **West Point Water Supply Reliability Project (CIP 11106)**

The Construction Contract was awarded to K.W. Emerson, Inc. in the amount of \$1,852,357.00 at the May 11th Board meeting. A pre-kick off meeting was held on May 23rd and the pre-construction meeting was held on June 2nd with the Consultant, PBI, and the Contractor. The pre-purchased packaged treatment unit is scheduled for delivery in September.

- **Copper Cove Lift Stations 6, 8, 15 & 16 and Lift Stations 12 & 13 Force Main Bypass Project (CIP 15076/15080)**

The project was advertised for bids on February 4th. The delivery of updated electrical plans to be provided by PG&E has been significantly delayed. As a result, the scheduled bid opening was changed again to June 30th. A funding plan for the construction phase of this project will be presented at the time of award, as the engineer's estimate exceeds the available budget. Staff continue to review the plan set to identify opportunities to value engineer the project to work in concert with the successful bidder.

- **District Corp Yard (CIP 11101)**

General Contractor, Plummerbuilt Construction, has completed construction of phase 1 of the warehouse. PG&E will provide a new single phase-400-amp power service and natural gas service from a junction box on George Reed Drive, PG&E anticipates that we will have the electrical service drawings within the next month. A new pad mounted transformer will be installed along with a standby generator. Interior tenant improvement plans were completed and submitted to the Building Department as a revision to the existing approved building plans. Staff has requested Change Order pricing from Plummerbuilt Construction to complete the site improvements as the planned work is similar to the already established unit price work. CCWD Electrical Staff has begun installation of lighting and electrical systems within the main shop area. Staff is working on completing the Grading Permit application with Public Works. The 42" diameter RCP pipe needed to bury the seasonal creek within the limits of the planned paving is on order due to long lead times, the pipe is needed to provide vehicle access across the site.

- **AMI / AMR Project (CIP 11096)**

Mueller Systems has completed the fixed network equipment installations Districtwide. Mueller will be testing the system to ensure that 100% of the meters are connected to fixed network and that the three day read success rates meet Project requirements.

Mueller has completed installation of over 13,000 meters within all the service areas. Mueller has gone back to complete the meters that were skipped for various reasons (the need for plumbing repairs and replacement of broken meter boxes/lids, etc.) Mueller is short new meter lids due to supply chain and production issues with lid suppliers. Mueller has sourced AMI compatible lids from various manufacturers to try to supplement the main supplier selected by the District, but some lid sizes will not be available until the later part of 2022. Mueller will need to come back to finish installing the new lid after they arrive. The existing lids will stay in place until lids can be swapped out with new AMI compatible lids. Existing lids that are made of reinforced concrete or steel can affect the radio signal coming from the meters and in some cases the new meters will have to be manually read until the new lids are available.

- **Ebbetts Pass Redwood Tanks Project (CIP 11095)**

The steel tank manufacturer has had significant raw material (aluminum, steel, and glass) supply chain issues that have impacted manufacturing and delivery dates for the finished steel tank panels and aluminum dome roofs for the tanks. District Staff has been working diligently this upcoming construction season to complete the project. KW Emerson has completed the new footing work at Heather Drive Tank and California Aquastore is onsite erecting the new Heather Tank. Big Trees Tank 8 in Camp Connell is completed and online, the existing redwood tank is out of service and being demolished.

KW Emerson has begun working on underground piping at Big Trees Tank 4 in Camp Connell and Flume Court Tank in Arnold Larkspur Tank in Forest Meadows cannot start until Heather Tank in completed and online in order to maintain water storage in Forest Meadows during construction.

- **Ebbetts Pass Hunter Reservoir Raw Water Pump Cal-OES Hazard Mitigation Project – Phase 1 Design and Environmental Review (CIP 11103)**

The engineering and design contract was awarded to Blackwater and the environmental contract was awarded to Cardno-Stantec at the January 26th Board meeting. Blackwater has evaluated multiple alternatives for the new raw water intake. Blackwater is currently work on a design to retrofit the existing pumping system at same location, harden the existing pump house, move pump controls up to the shoreline, provide flushing system for sediment-laden water, and to replace the piping from the shoreline up to the Treatment Plant.

Blackwater completed the 60% design submittal along with engineers cost estimate a was submitted to Cal-OES several weeks in advance of the deadline. Staff responded

to RFI request from FEMA and currently working on RFP for prepurchase of the pumps and electrical equipment. Blackwater has brought a Structural Engineer onboard to provide structural design for a trolley system to lower equipment down to the existing pump house and provide structural/safety improvements to the existing pump house.

- **Arnold Wastewater Treatment Facility Improvement Project (CIP 15095)**

In addition to adding a new secondary clarifier, RAS/WAS pump station, and new aerobic digesters, the electrical motor controls and PLC and SCADA systems at the facility will be replaced. HydroScience prepared the 50% design plans and held a meeting with District Staff to review. Grading for the new equipment has been an area requiring detailed consideration. The project is scheduled to be advertised for bids by the end of summer.

- **Forest Meadows UV Replacement Project (CIP 15106)**

The replacement UV system has been purchased. Delivery is expected in August 2022. Operations, Construction, and Engineering staff have worked together to develop a site design. The Construction crew will install the unit and construct the site improvements once the unit arrives. The existing stainless-steel channel must be demolished and removed, and a new concrete channel constructed to house the new UV lamp system. The construction of this new channel will most likely be completed by a contractor.

- **Sheep Ranch Water Supply Reliability Study and Facilities Master Plan (CIP 11126)**

The District's consultant, Lumos Engineering, continues to develop the Facilities Master Plan. A workshop was held on April 29th.

- **Copper Cove Wastewater Treatment Plant Tertiary Treatment and UV Improvements and Facilities Plan (CIP 15094)**

Assessment of solids handling options, facility layout, and selection of tertiary filter units, UV disinfection units, and DAF units is being finalized. The initial construction cost estimate grossly exceeds the District's budget. The District and design team members are assessing value engineering options to allow the project to remain within budget. This may require that both the existing tertiary filtration units and UV disinfection system remain in operation. This is not the preferred option given that these facilities are approaching the end of their useful life.

- **Copper Cove Wastewater Treatment Plant – Pond 6 Dam and Effluent Storage Reservoir Enlargement Project (CIP 15112)**

Wagner & Bosignore has re-started this project. Below are the near-term deliverables:

- February 25th – Receive draft of updated project drawings, specifications, Division of Safety of Dams (DSOD) Application with an estimate of the application fee, and project construction cost estimate.
- March 7th – Submit plans and specifications, along with signed application and application payment to DSOD.

- **Copper Cove Water System Improvements (CIP 11083C, 11111, 11122)**
Peterson Brustad Inc. (PBI) was awarded a contract at the May 11th Board meeting. A kickoff meeting was conducted on site with PBI and District Engineering and Operations (Treatment, Distribution, and Electrical) staff on Tuesday, May 24th. The first order of work for PBI is to prepare an Assumptions Tech Memo that will be the basis for an updated hydraulic model.
- **Jenny Lind A-B Water Transmission Pipeline Replacement Project (CIP 11088)**
The Board awarded the design and engineering contract to Coleman Engineering on March 23rd. A kick-off meeting with Coleman Engineering, Weber Ghio, and CCWD staff was held on April 7th. The District staff is working with design firms on Hydraulic model.

Agenda Item

DATE: June 16, 2022

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Engineering Department

RE: Other Updates

- **Jenny Lind Elementary School Force Main Project**

During the week of February 21, KASL Consulting Engineers (KASL) secured approval from CalTrans and multiple property owners to proceed with a geotechnical investigation to determine the optimal alignment for a force main. Staff and KASL continue to discuss the optimal lift station pumps for the two lift stations identified as necessary for the project, as well as the optimal location for a second lift station (with the first to be located at the Jenny Lind Elementary School) in order to develop a project to accommodate flows from the school and logically plan for adjacent parcels that would benefit from upsizing of this infrastructure, as there are 183 parcels adjacent to the proposed force main alignment and 237 parcels within 350 feet of the proposed force main alignment. Property acquisition for the second pump station will also need to be accomplished.

- **Grant Opportunities**

There are no current grant applications under review. Staff continues to monitor other funding opportunities for applicability to District projects, such as Proposition 1 – Round 2 Integrated Regional Water Management (IRWM) Implementation Grant Program. Staff also attended the virtual California Financing Coordination Committee Spring 2022 funding fair to remain informed of future grant opportunities.

- **Construction Projects**

- **Gold Creek 3:** The project has not been accepted by the District. Outstanding punchlist items remain to be resolved by applicant.
- **Copper Valley (Saddle Creek 7B):** Contractor is awaiting favorable weather to pave. Finish work and punchlist items remain to be addressed.
- **Tri-Dam Lake Tulloch Day Use Area:** The District is working with Tri-Dam on the property easement for the water main to be accepted by CCWD.

- **Developer Projects**

- **Copper Valley Town Square:** Staff continue to have meetings with representatives of CV Development Partners LLC to continue on-going discussions on key issues including capacity fees pertaining to change of use applications, future planned redevelopment of the Copper Valley Square complex,

a permanent sewer force main to serve Copper Valley Square, upgrades to the Reeds Turnpike Pump Station to increase potable water delivery to Copperopolis and Copper Valley Square, and other regional development issues. Staff is reviewing the pre-design report for the forcemain and sewer pump station, provided comments back to the owner/owner's representative.

- **Hogan Oaks I and II:** Staff had an onsite meeting with the representative of Hogan Oaks I & II to discuss the District's concerns in regard to the proximity of proposed lots in Hogan Oaks I subdivision to La Contenta Wastewater Treatment Plant. The owner is willing to address the concerns and submit an updated exhibit that shows respective changes.
- **Wallace Ridge Estates:** District staff met up with Calaveras County Planning Department and Delta Engineering (owner representative) to coordinate work effort to get TSTM approval for the development. Owner to provide the District with a memorandum from hydrogeologist confirming underground well water capacity to meet the demand brought on by proposed development.
- **LGI Homes:** Staff have participated in multiple meetings with LGI Homes who have a proposed development in Rancho Calaveras near Berkeley and Vista Del Lago to discuss potential water and sewer system improvements necessary to facilitate project implementation. The owner to submit a sewer shed analysis showing impacts on the La Contenta wastewater collection system. This work continues.