

ENGINEERING COMMITTEE

AGENDA

Tuesday, November 9, 2021
2:00 p.m.

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

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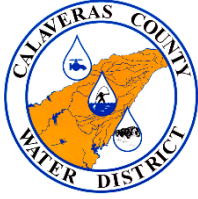
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ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. **PUBLIC COMMENT:** Comments limited to three minutes per person.
2. **APPROVAL OF MINUTES:** For the meeting of September 14, 2021
3. **JENNY LIND/LA CONTENTA SERVICE AREA – OPERATIONS ASSESSMENT**
4. **CAPITAL IMPROVEMENT PROJECT UPDATES**
5. **OTHER UPDATES**
6. **GENERAL MANAGER COMMENTS**
7. **DIRECTOR COMMENTS**
8. **FUTURE AGENDA ITEMS**
9. **NEXT COMMITTEE MEETING:** Tuesday, January 4, 2022 at 2:00 p.m.
10. **ADJOURNMENT**



CALAVERAS COUNTY WATER DISTRICT ENGINEERING COMMITTEE MEETING

MINUTES
September 14, 2021

Directors/Committee Members present:

Jeff Davidson
Russ Thomas

Staff present:

Michael Minkler	General Manager
Kate Jesus	Engineering Coordinator
Damon Wyckoff	Director of Operations
Kevin Williams	Senior Civil Engineer
Charles Palmer	District Engineer
Sam Singh	Senior Engineering Technician
Pat Burkhardt	Construction & Maintenance Manager
Jared Gravette	Senior Supervisor Construction & Inspection
Jesse Hampton	Plant Operations Manager
Bill Cardinal	Senior Supervisor Water and Wastewater Treatment
Jason Knick	Senior Distribution Worker
Amos Roeder	Senior Collections Systems Worker

Others present:

None

CALL TO ORDER / PLEDGE OF ALLEGIANCE

Director Davidson called the meeting to order at 2:23 p.m.

1. PUBLIC COMMENT:

There was no public comment.

2. APPROVAL OF MINUTES:

The July 6, 2021 minutes were approved as presented by a motion from Director Thomas and seconded by Director Davidson.

3. COPPER COVE SERVICE AREA – OPERATIONS ASSESSMENT

Damon Wyckoff introduced Bill Cardinal who gave a presentation on the Copper Cove Service area and the state of the infrastructure from the Operations staff perspective. The presentation included an overview of the conditions of pump stations, generators, filters, electrical and SCADA system, distribution tanks and systems, wastewater lift stations, piping and manholes.

4. UPDATES TO THE DISTRICT DESIGN AND CONSTRUCTION STANDARDS

Mr. Wyckoff stated that the District staff has gone through an extensive rewrite of the Standards which includes an updated materials list, new methodology for inspections and other necessary updates. Staff asked the Committee for their feedback prior to presenting the final draft to the full Board at the September 22, 2021 meeting. Going forward, staff will update the document on an as needed basis to meet industry standards. The Committee gave their approval to present the Design and Construction Standards at the next Board meeting.

5. CAPITAL IMPROVEMENT PROJECT UPDATES:

Damon Wyckoff gave brief updates on the following projects:

- West Point Water Supply Reliability Project (CIP 11106) – The District will be pre-purchasing the additional filter for the project which will require staff to present a request to the full Board for a sole-source purchase of the filter due to the availability. The project is on track to go out to bid in December 2021.
- West Point and Wilseyville Wastewater Facilities Consolidation Project (CIP 15072) – Staff continues to work with the consultant and the project is scheduled to go out to bid in early 2022.
- Copper Cove Lift Stations 6, 8, 15, 16 and Force Main Project (CIP 15076/15080) – Staff and the consultant are finalizing the plans and specs for the project. It is on schedule to go out to bid in the Fall of 2021.
- District Corp Yard (CIP 11101) – Kevin Williams provided the Committee with the site and foundation plans for review. There was further discussion regarding District owned bollards that can be used for the project site. The Committee and staff also discussed the location and installation of the utilities for the building.
- AMI/AMR Project (CIP 11096) – Meter installs have begun in the Big Trees area of Ebbetts Pass. The contractor should be completing the meter installation in the Ebbetts Pass service area by the end of November.
- Ebbetts Pass Redwood Tanks Project (CIP 11095) – The site work on Tank 8 in Big Trees Village has begun and should be complete before winter.
- Wallace Wastewater Treatment Plant Electrical Improvements Project (CIP 15087) – The panels have been installed and the facility is in operation. Once the antenna for the SCADA system is installed, the project will be complete.
- Arnold Wastewater Treatment Facility Improvement Project (CIP 15095) – Staff has been working with the consultant on the preliminary design and the 30% design submittal will follow shortly.
- Jenny Lind A-B Water Transmission Pipeline Replacement Project (CIP 11088) – Staff is working on a draft Request for Proposals for the engineering and design services and will be issuing the final RFP in the next few weeks.
- Forest Meadows UV Replacement Project (CIP 15106) – Staff is working on a cost estimate for the comprehensive UV replacement.

6. OTHER UPDATES

Damon Wyckoff gave brief updates on the following:

- Sheep Ranch Fire Protection Tank Project – Staff is working with an adjacent property owner regarding additional property for the facility.
- Jenny Lind Elementary School Force Main Project – Staff will be working with the project's engineer, KASL, in the coming months to develop the design and construction is set to begin in Spring of 2022.

- Blagen Road Bridge Project – The County’s contractor, K.W. Emerson, is moving forward with the bridge replacement. The District’s waterline did not have to be removed during the project.
- Sheep Ranch Water Supply Reliability Study and Facilities Master Plan – A Request for Proposals was issued on July 30th and there were 5 proposals received by the deadline of September 2nd. Staff has been reviewing them and recommendation for award will be presented to the Board at the next Board meeting.
- Copper Cove Wastewater Treatment Plant Improvements – Staff is working on draft Request for Proposals for the design and engineering portion of the project. Further information will be brought forward in the future.
- Gold Creek 3 and Saddle Creek 7B construction projects – Staff continues to work with the contractors on the duration of the projects.
- CV Development developer project – Staff continues to work with the developer on concept designs and the sewer force main project.

7. GENERAL MANAGER COMMENTS

Mr. Minkler gave a brief update on a Brown Act bill regarding remote meetings during declared emergencies.

8. DIRECTOR COMMENTS

None.

9. FUTURE AGENDA ITEMS

Director Thomas requested to discuss the current condition of a District owned building on Kiva Drive in Copperopolis.

10. NEXT COMMITTEE MEETING

November 2, 2021 at 2:00 p.m.

11. ADJOURNMENT

There being no further business, the meeting adjourned at approximately 4:06 p.m.

Respectfully submitted,

Kate Jesus
Engineering Coordinator

Agenda Item

DATE: November 9, 2021

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

FROM: Engineering Department

RE: Jenny Lind/La Contenta Service Area – Operations Assessment

SUMMARY

The Jenny Lind Distribution and Collection field staff will be presenting a PowerPoint to the Engineering Committee.

Staff will continue to engage other service area Operators and have presentations at future Engineering Committee meetings.

Agenda Item

DATE: November 9, 2021

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 Board approved the sole source purchase of the WesTech Filter for the project at the October 13th Board meeting. This allows the consultant, Peterson, Brustad, Inc. to effectively incorporate the pre-purchase of the filter in their schedule for design and bid for construction. Staff received the 50% deliverable on October 27th and is currently under review.
- **West Point and Wilseyville Wastewater Facilities Consolidation Project (CIP 15072)**

The consulting firm, Nexgen, is working on the 90% design plans and deliverable which is due at the end of October. A 90% design review meeting was held on October 19, 2021. Nexgen requested that staff provide 90% review comments by the end of October in order to keep the project on track to go out to bid in early 2022. CCWD is working with CHIPS to secure an easement for the sewer piping from the planned Wilseyville Pump Station to the West Point WWTP.
- **Copper Cove Lift Stations 6, 8, 15 & 16 and Lift Stations 12 & 13 Force Main Bypass Project (CIP 15076/15080)**

Staff has prepared and submitted electrical service applications on behalf of CPPA to PG&E for electrical service upgrades for Lift Station 6, 15 and 18. CCWD has prepared and submitted preliminary site electrical plans to PG&E and continuing to work with PG&E to submit all requested data. PG&E has a lead time of 16 to 22 weeks for completing design for electrical service upgrades. Also, staff has filed for a preliminary encroachment permit with the County Public Works. CEQA document is proposed to be a categorical exemption that can be issued in the near future. Project plans are completed by Lee & Ro and staff is planning to put this project out for public bid this Fall/Winter as soon as PG&E furnishes plans for the electrical service upgrades.
- **District Corp Yard (CIP 11101)**

The Metal Building Package was delivered from Ceco Building Systems and is being stored onsite. The County Building Department has completed the plan review and issued Building Permits to the District. Application for power has been submitted to PG&E and is currently under review by PG&E. Rough Grading including construction of the fill for building pad has been completed, the Contractor is working on under-slab utilities and plans to place concrete for the footing and building slab within the next couple of weeks. Bollards and concrete slabs in front of the doorways have been added to the scope of the

Project. The first phase of Construction should be completed by the end of January 2022. Interior improvements, electrical and exterior storage areas behind the building will be completed in subsequent phases and is not included in the current construction contract.

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

Mueller Systems and Subcontractor Keystone Utility Services have installed nearly 2,500 radio read meters and new meter box lids within the Ebbetts Pass Service area. The Project has been plagued by raw material shortages affecting the meter and meter box lids manufacturing, the shortages delayed the Project from starting earlier in the season as originally planned. The antenna poles for the fixed network data collection have been installed Districtwide, Mueller Systems and subcontractors are installing network collection devices on the antenna poles. Mueller has been working with Tyler Technologies to develop swap files that are compatible with both the Mueller Sentryx online platform and Tyler CIS billing systems so that the two systems will sync. Upon completion of meter switch outs in Ebbetts Pass crews will be moving to Copperopolis and West Point to install meters within these two service areas. Mueller plans to bring fixed network automatic reading of meters online as meter swaps are completed within each service area, customers will then have access to daily water usage and leak detection alerts.

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

KW Emerson (Site Work Contractor) has completed the concrete foundation and site work for Big Trees Tank 8. There has been delays in the manufacturing and delivery of the Tank materials for this Project. Because Big Trees Tank 8 is located high in the forested area above Camp Connell no work can complete during the winter months. As a result, completion of this tank will be pushed into next year's construction season. Heather Drive Tank in Forest Meadows has also been pushed back to into next year's construction season due material delays. Now all five tanks that are part of this Project will need to be completed next year.

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

Staff is preparing a request for proposal to complete a Phase 1 design and environmental review effort for the Hunter Reservoir Raw Water Pumps. Staff recently completed a bathymetric survey of the reservoir bottom and found the current operating depth to be significantly shallower than expected due to historical sedimentation. In concert with the Cal-OES hazard mitigation project, another source of funding, potentially such as via the T-STAN IRWMP, may need to be secured to remove sediment and restore reservoir capacity. CCWD is working with UWPA to coordinate a sediment removal effort and associated funding.

- **Wallace Wastewater Water Treatment Plant Electrical Improvements Project (CIP 15087)**

A final day of acceptance testing was completed with all parties present on-site: CCWD staff, A.TEEM, Bruce Whittle and Gold Electric and all corrections made. Also, Gold Electric has submitted final as-builts and O&M manuals to CCWD. The project is complete at this time.

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

The consultant, HydroScience is finishing the preliminary design report as of end of October. Electrical staff and our electrical engineer (A.TEEM) have stated that the existing motor control center (MCC) is in poor condition and potentially unsafe and have asked that it be replaced with the project. Also, staff has stated that the main plant programmable logic controller is obsolete and needs to be replaced coinciding with this project, too. The added engineering effort for HydroScience and A.TEEM is estimated to cost approximately \$55,000. Also, CCWD is looking at retaining an environmental consultant to perform brief field surveys and prepare technical memo's confirming the absence of biological and cultural resources and supporting a CEQA categorical exemption for the project.

- **Jenny Lind A-B Water Transmission Pipeline Replacement Project (CIP 11088)**

A draft request for proposals for engineering and design has been prepared and circulated among staff for comment and revisions. The Engineering staff met with Jenny Lind Distribution crew for feedback of the draft request for proposal on October 12th. Once finalized it will be issued for consultant proposals with consultant selection anticipated for December or January. This project will include approximately 20,000-feet of new transmission pipeline between Tank A and B in the Jenny Lind System (anticipated to follow Hartvickson Lane and Baldwin Road) and eliminate a bottleneck in the water supply to Tank B.

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

Staff is reviewing equipment options, installation requirements and site constraints for the new UV system. Staff has determined that in order to be used for disposal on the unrestricted access gold course, the UV system must comply with CCR Title 22 for recycled water. For ease of maintenance, the preferred option is an open channel type unit similar to what the District has at its Copper Cove and La Contenta wastewater treatment plants. Staff has quotes from different vendors for the open channel type units ranging from \$167,945 by Xylem/Wedeco and \$202,100 by Trojan Technologies. The onsite work will include demolition of the existing unit and construction of a new concrete channel for the UV banks/lamps.

- **Sheep Ranch Water Supply Reliability Study and Facilities Master Plan (CIP 10080)**

The Board awarded the professional services agreement (PSA) to Lumos & Associates was authorized at the September 22nd Board meeting. Lumos has signed the PSA and returned it to CCWD. A kickoff meeting was held on October 6th. Staff is working on the initial information request by Lumos. The first deliverable for a "System Demand, Condition Assessment & Objectives Analysis" of the Sheep Ranch system will be completed by Lumos & Associates by mid-December 2021.

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

Staff issued a Request for Proposals (RFP) on September 16th and conducted a preproposal meeting and site visit with prospective consultants on September 30th. The consultants' Statement of Qualifications and proposals are due by October 26th and is expected to be on the agenda for the November 10th Board meeting. The scope of work

includes the design of new tertiary treatment and UV disinfection facilities for the Copper Cove Wastewater Treatment Plant and also includes development of a comprehensive facilities plan and cost estimated for future improvements including secondary biological treatment, clarification and solids handling processes.

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

As approved by the Board on October 13th, staff is preparing a professional services agreement with Wagner & Bonsignore to update plans to raise the dam and enlarge the effluent storage reservoir for the Copper Cove Wastewater Treatment Plant. A new application and the update plans will be filed with the Division of Safety of Dams (DSOD) for approval for construction. Upon filing our new application, DSOD could rely upon previously submitted information from the prior application or may request some information be updated at this time, such as a new borrow site investigation, geotechnical report or hydraulic study. There are contingencies included with Wagner & Bonsignore's proposed scope and fee to perform various updates upon DSOD's request. The previous borrow site was located with the Oak Canyon Ranch agricultural preserve is no longer viable and a new borrow site investigation must be conducted to identify suitable material to construct/raise the dam.

Agenda Item

DATE: November 9, 2021

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

FROM: Engineering Department

RE: Other Updates

- **Sheep Ranch Fire Protection Tank Project**

CTC Construction will be working to complete the site improvements for the new tank this month and California Aquastore will erect the tank shortly thereafter. Anticipate the tank to be erected and appurtenances in place by February 1st, 2022.

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

As of October 25th, staff met with Jack Scroggs of KASL Engineers to review and discuss the 60% submittal for the new sewer force main alignment on Berkesey. In the future, the new force main can accommodate new sewer connections along Berkesey. Staff is working with KASL to complete design review for the sewer lift station(s), sewer force main and gravity sewer upgrades near Vista Del Lago and Hwy 26. The CSD tentatively plans to complete the design and bid the project in the Spring of 2022 and potentially start construction by July 2022.

- **District Owned Buildings on Kiva Drive, Copperopolis**

At the July Engineering Committee meeting, Director Thomas requested to discuss the current condition of the building on Kiva Drive. Staff is asking for feedback from the Committee on their thoughts.

- **Construction Projects**

- **Gold Creek 3:** With the help of District Staff, Mozingo has completed the relocation of a section the 12-inch sewer force main from Huckleberry Lift Station to the La Contenta Sewer Plant. This section of force main was relocated due to earthwork, grading and lot lines related to the project conflicting with the original force main. To minimize the chances of an accidental spill and disruption to sewer flows from Huckleberry Lift Station, the relocation effort to the 12-inch force main was made during overnight hours on Tuesday September 28th. CCWD staff was integral to the success of the overnight shutdown going smoothly without resulting in any sewer spills or unforeseen problems.
- **Saddle Creek 7B:** Curb and gutter installation continues. Testing will begin once all base-rock is laid

- **Developer Projects**

- **Copper Valley Square:** On October 22nd, staff had an online meeting 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 meets with CV Developers monthly to discussion and work towards solving these issues.
- **Hogan Oaks I and II:** The District received a water and sewer concept review application from Toma & Associates on October 14th. Staff had an internal meeting and conducted a preliminary review on October 28th and will follow up with Toma & Associates in the next few weeks.