

TCSD CPO Monthly Operation/Maintenance Report

August - September 2024

General Plant Operation/Maintenance

- Daily plant maintenance/housekeeping
- Daily/Monthly/Semi-Annual sampling and reporting
- Data collecting/recording /reporting
- SCADA monitoring
- Compliance enforcement
- Scheduling
- Equipment cleaning/maintenance/calibrating
- Exercise equipment/valves
- SSO prevention
- Safety enforcement/prevention is performed daily through a facility safety walk and regular inspections.

Safety Report

- No safety accidents or near misses
- A safety pamphlet on Hazardous Material was reviewed by operators in September.

Call out/Plug up/Spill/Collection System

Multiple USAN line location and markings were performed.
High school private lateral and outfall line is checked regularly.

- A call-out occurred on August 5th to the WWTP for a Backup Generator Running Alarm during non-normal working hours. The on-call operator responded and found the power had already been switched back to PG&E power supply. The sludge pumps were reset and restarted. Future callouts of this nature will be avoided following SCADA upgrades.
- A call-out occurred on August 26th to 18499 Main Street during normal working hours. The issue was found to be the homeowners to correct. Staff located the blockage to help guide the homeowner's efforts.
- Staff completed the improvements to the East Bay Alley. As a reminder, saturated soils resulting from a private failed drainage system caused the fill in our trench sink. Our engineers, with help from Condor Earth, designed a correction that included replacing fill material with slurry and reconstructing the private drainage system. This is somewhat controversial with the District improving privately owned facilities. The dilemma was if nothing was done, it would have the potential to cause massive trench failure all the way down Bay Street to Main Street, with sinkholes

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and damaged paving resulting. Staff tweaked the engineer's design to make the correction a fraction of the cost.

Plant Operations

Additional activity performed at the Plant, above and beyond daily general operations and maintenance

- A tour of the WWTP was given to a team of consultants and a central valley sewer District who are in the planning phase of upgrading their sewage treatment plant.
- The Canyon fire that ignited on August 8th had little impact on the District other than red-eyed operators reporting to work the next morning. The biggest risk the fire posed was the annihilation of the TUD water treatment plant. In that scenario, the WWTP biomass would starve and ultimately die off from a lack of flow.
- Little progress was made in August for the WWTP Phase-II improvements. September saw mostly electrical improvements being made, which are expected to be completed before October. The electrical improvements are for a future upgrade to the treatment process that will eliminate seasonal elevated pH, bringing the reservoir back into compliance.
- Staff completed a drainage improvement project in front of the conex storage containers. This included installing a traffic rated drop inlet (DI) box to collect runoff. Roughly 100 feet of six-inch drainpipe was installed connecting the DI to a nearby drainage ditch. This will help eliminate runoff from entering the emergency storage ponds and reduce the amount of time operators spend on pumping that water out and through the treatment process.
- Summerville high school hired a pump company to replace a booster pump in their pumphouse located at the WWTP. Shortly after the crew left, our staff found large amounts of water flowing out of the pumphouse with a mud slurry flowing onto our driveway. The operator killed electrical power to the building and shut off water pre and post to the pumphouse via isolation valves. The high school corrected their leak and are now working to clean up the mess caused by the incident and repairing clogged french drains resulting from the mud slurry.

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- One of the new sludge pumps from the last phase of WWTP improvements had faulted out due to high temperature. The pump was found to have overheated, which should have been prevented due to built-in protection devices. The pump was pulled and sent in for repairs under warranty.

Apply Colony Lift Station

- Daily Apple Colony lift station inspections performed as required by SDRMA

Bakers Reservoir and Dam/Outfall line

- Freeboard was roughly at 28ft. as of September 24th.
- Staff focused their efforts in August to replace a deep and rotting culvert that conveys dam seepage water to a measuring device that annual dam inspectors measure every visit. During the dam inspection of 2023, the inspector cited the measuring device, call a V-notch weir box, as needing to be replaced due to corrosion. When staff removed the old V-notch box they found the culvert needing to be replaced as well. The depth of the culvert (eight feet) and surrounding saturated soils made this a daunting task for our staff given the District's equipment. A larger excavator was rented to speed up the project and allowed staff to complete the work in a week's time opposed to a month. A new V-notch box was fabricated by Betzler Heating and Air. Staff concreted the new box in place around the new culvert. The dam inspector was onsite when staff were in the middle of performing these tasks and were pleased to see the efforts being made. Other benefits to improvements made include reduced maintenance time on staff and ease of access of two key seepage facilities below the dam.
- Annual Dam inspection took place on August 1st. No major issues were cited, and the inspector mentioned how well the facility was being maintained.
- The reservoir exceeded the pH limitation again on August 20th and continues as of tis writing.

End of Report

Ben Kikugawa, Chief Plant Operator

September 24, 2024