

TCSD CPO Monthly Operation/Maintenance Report

February 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/valve
- 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 handout was reviewed by staff on Wildfire Planning, on February 9th

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 to 18349 Short St. occurred on February 8th during normal working hours. The customer complained of an audible alarm sounding from a recently installed grinder pump. Staff responded and found a cleanout overflowing and could not force a pump cycle. Staff met with the contractor who installed the pump onsite the next morning. A small access port was removed to inspect the float switches. Large amounts of solidified grease was found to cause the float switch to stay in the downward position, preventing the pump from starting. The grease was scraped off the float switches and multiple pump-downs were performed. The customer was informed the issue was the result of misuse and to keep grease out of their drains.
- A design clarification has been drawn up by Black Water Engineers to mitigate the East Bay Alley sunken trench, reported to you last month. As of this writing, the design is being reviewed by Condor Earth Technologies, who sent a geo-tech to help assess the situation when first discovered.
- A small depression over a paved storm drain trench on Main Street appears to be worsening. During the sewer rehabilitation project, an unaccounted and partially abandoned storm drain was

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encountered in an alley connecting Pine Street to Main Street. The storm drain was found to have active inlets, but no active outlet. Originally, the old storm drain system connected to a manhole on the west side of Main Street, just south of the Fire Station. It appears the storm drain was capped off when installing the sewer mainline in the late 1940's. Our recent project replaced the old pipe with new in the same trench on the east side of Main Street. There were concerns the capped off storm drain would saturate surrounding soils and follow the more permeable path of least resistance – our trench. Trench failure (and road failure) would likely ensue at no fault of the contractor, nor the District. To protect our facilities, a change order was issued to reconnect the capped storm drain to the storm drain manhole. The design for this improvement was reviewed and approved by the County Roads Dept. When looking into the storm drain manhole, water can be seen entering at a steady rate through cracks and voids in the manhole sidewall's original construction. In short, the settling occurring under the roadway is not the fault of the District due to the County approving corrective measures and, the failure of the storm drain manhole which is tied back to the storm drain.

Plant Operations

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

- Additional potholing of the outfall pipe in the upper driveway were done at the request of Black Water Engineers. Staff did the potholing in-house and called in surveyors to collect the data points for Black Water. This was needed to reach the 90% design milestone, due March 8th.
- A small spring pin is used to secure an operating nut to a drive shaft on most of the valves around the WWTP. The spring pin had broken on the on the skimmer valve. The skimmers collect floatables in the clarifiers and send them to the Plant Drain Well where they are pumped back to the Aeration Basin. During high flow events that cause the treatment system to back up, the skimmers become submerged causing the Drain Well pumps to be overran. This always results in a high Drain Well alarm. Operators have come up with a temporary solution for the interim during high flows. Staff plan to excavate the valve and make the repair when weather permits.

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Apply Colony Lift Station

- Daily Apple Colony lift station inspections performed as required by SDRMA
- The lift station was cleaned on February 20th

Bakers Reservoir and Dam/Outfall line

- Freeboard is roughly at 8.2 ft. as of February 27th. John Baker has ceased sending supplemental creek water into the reservoir.
- The irrigation pump has been rebuilt. Staff is awaiting good weather to reinstall.
- The reservoir is experiencing high pH, which is abnormal for this time of year. The limitation for high pH is 9.0 standard pH units. On February 27th, pH was recorded at 8.97.

End of Report

Ben Kikugawa, Chief Plant Operator

February 29, 2024