

# TCSD CPO Monthly Operation/Maintenance Report

## February 2025

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### 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

### 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.

- 340 feet of mainline cleaned.
- A call-out occurred on February 13<sup>th</sup> during normal working hours to 18175 Bodenhammer Ave. with a complaint of sewer spilling into a neighboring field. Staff responded and cleared the blockage from the nearest downstream manhole. The spillage was cleaned up and the spill was reported in CIWQS having spilled an estimated 50 gallons. Spill volume estimation was difficult due to an ongoing rain event saturating surrounding soils. Upon leaving the scene the four-wheel drive van became stuck in mud and had to be left in a field overnight. A tow truck company was called in the next day to winch out the van.
- A call-out occurred on February 15<sup>th</sup> to 19088 Carter St. during non-normal working hours. The responding operator informed the customer the District had performed one-time courtesy flushes for him them in the past and they cannot do it again per District policy. While the operator was not able to use District equipment, he did clear the blockage using the homeowner's garden hose.
- The Tribe was preparing to start an improvement project for the District without the District's knowledge at the intersection of Willow and Maple. Due to the time of year and the proximity of wetlands, the District requested the project be pushed back to a later date.

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### Plant Operations

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

- All Punch List items from the WWTP Phase-2 project have been completed. A final walk -through is being scheduled to close out the project.
- Last month it was reported to you that staff had to repair a stripped bolt-hole on a pump component from Phase-1 of the WWTP improvements. Following that repair, the pump began to leak from a seal. The distributor, Shape Inc. sent out one of their technicians who did the repair onsite. The pump was reinstalled and tested the next day. It worked as intended with no leaks and was shut down as it was not needed at this time of the year. When staff brought the pump online in preparing for an incoming storm, the pump faulted out by the time staff arrived at work the next morning. Shape sent out another technician who quickly identified the issue. The solution was to rotate the oil and stator housing 180 degrees but leave the pump volute in the same orientation. When separating these components, clean oil was observed draining from the volute with remaining sludge. This oil in the pump was checked and found to be contaminated. This means a seal had failed requiring the pump to be returned to Shape's shop. Shape quickly made the repairs and the pump has been reinstalled. As of this writing, the pump has been running for 2.5 hours with no issues. The pump will be left running until the next day to monitor the pump's performance.
- The illicit discharge that occurred in late August is still having adverse effects on the treatment system and raise concerns on what this means for our biosolids when we remove them from the Sludge Lagoon later this year. Typically, pollutants that enter the treatment plant will be discharged to the reservoir. Because the pollutants are of a petroleum origin they float on the surface of the treatment system and do not leave the plant due to its baffled design. Operators wanted to suck up the floating material and place them in the Sludge Lagoon, but heavy metal testing was done first as a precaution in protecting those biosolids from contamination. Heavy metal analysis shows concentrations in the floating scum high enough to be classified as hazardous waste. Staff are still exploring options and speaking with experts on Title 22, 503 Regulations (land application of composted biosolids) to determine the full ramifications of the contamination.
- The Blower-3 runtime counter has exceeded its numerical space and is displaying all asterisks. Parkson said this can only be corrected by plugging a PC into the PLCs to reset the counter. This has been added to the scope of the SCADA project.

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### Apply Colony Lift Station

Daily Apple Colony lift station inspections performed as required by SDRMA

- The Apple Colony Lift Station had a “stop” or “Low” float switch failure. This caused the pumps to constantly run as no signal was being sent to SCADA to tell the pumps to turn off. Operators temporarily used the “Low-Low” float switch as the Low switch until a new float switch arrived. The new float switch is now in place and the system is running normally.

### Bakers Reservoir and Dam/Outfall line

- Freeboard was at approximately 9 feet as of February 25<sup>th</sup>
- The irrigation pump has been reinstalled following a mechanical seal repair. When removing the pump or motor, an alignment needs to be performed by specialist using specialized laser alignment tools. The pump was tested and it is now ready for the upcoming irrigation season.

**End of Report**

Ben Kikugawa, Chief Plant Operator

February 27, 2025