
Water Plant

The water treatment plant has been running smoothly. In December, the plant was operational for **17** days with an average plant production of **1.8** MGD and a max day of **2.9** MGD.

Construction on the Emergency Overflow Pond project is nearly complete. The contractor has been demobilized for weeks now as they are only waiting on the replacement vault hatch which was a very long lead time item.

Work continues on the WTP southern entrance project from Waterton Road. Access control contracts have been signed and parts are beginning to arrive, fence and gate contracts have been signed and parts ordered, and we are getting quotes on the electrical work to power it all.

HDR has provided the full report for the filter optimization project, we are currently working with CDPHE on the full-scale pilot and have just received approval. Our intent is to start the pilot on 01/24/2022. Our next task is to discuss lead & copper testing requirements if we move forward with a coagulant change. We plan to do coupon testing to demonstrate to CDPHE the corrosion characteristics don't change our finished water quality and avoid moving back to standard lead & copper testing.

We determined that we indeed had an underdrain filter failure in filter 4. The operators took on the repair by themselves with support and parts being provided from the manufacturer. After removing the media and exposing the failure it was determined that there was a faulty underdrain cap installed in the filter from the factory. Parts were sent at no charge and the repair made by the operators worked perfectly. Their efforts offered a huge cost savings to the District.

We had to make a repair on the sludge collection unit in the west reclaim basin due to a bent sludge collection chamber. The operators have worked hard to get the basin drained and cleaned so the unit could get replaced. This activity was done without the need to discharge any water so that was good.

We had our pre-construction meeting with Moltz Construction on the WTP High Zone Pump Addition project on 01/11/2022. The meeting went well, they discussed some issues with long lead time items and the potential impacts to the project. Specifically, the VFD for the new pump has an 18-week lead time which moves it into May, however Browns Hill Engineering has procured a temporary VFD that can be installed in its place until it arrives. The pump is supposed to ship on 01/14/2022.

December production was **31** million gallons of treated water, **11.3** million gallons of that was for Sterling Ranch.

Lift Stations

The lift stations are running smoothly. We are still evaluating the new pump addition to replace P203 this year; Water Technology Group has been working with TST to properly size the new pump and has offered a couple of selections. We plan to make the selection later this week.

The blower at the Transition Vault has failed, Water Technology Group has ordered the parts needed for repair, upon repairing the blower it was discovered that there was also a bad air seal once they opened the casing. Additional parts were ordered, and the blower was removed, once parts arrive, they will reassemble the blower in their shop and return it onsite to install once complete.

In efforts to tighten up our collection system and focus on reducing inflow and infiltration, we are evaluating flow meter technologies to install in the trunk lines to track it. We have installed a demo flow meter in the Park with plans to purchase it if we are satisfied. We are also evaluating places in Ravenna where we can install flow meters on the end of each trunk line. These locations must be approved by Ravenna.

December saw **22** million gallons of sewage pumped to Littleton-Englewood. Approximately **3.8** million was conveyed for Sterling Ranch.

Field

The field remains busy for December with over **568** locates, most of them were in Sterling Ranch, **135** were in Roxborough.

We have had three water main breaks since our last meeting, the first one occurred on the evening of Thanksgiving on Condor Run & Roxborough Dr. The next one was a few weeks later on Ponderosa Trail, and the last one was in the Village on Halley Dr. Each one of the repairs had different obstacles which made them all difficult in one way or another.

Bid opening on the Transmission Main project in Village Circle was on 01/14/2022. TST will report on the bid opening.

Monthly Averages

