

Operations Update

Plant operations and treatment were good during the month of December with no major issues and very little precipitation in the month. Checkout and startup on the new equipment for the filters will start in late January.

Maintenance Update

Actiflo Hydrocyclone 1A: The inlet head on this hydrocyclone started to leak at the same seam that 2 others have in the past. We ordered 2 new inlet heads for a total of \$4,844. We ordered a spare inlet head with lead times in the 14-16 week range.

Biostyr Blowers: Blower #6 started to leak oil late in the month of November and was taken offline and replaced with the spare blower. The blower will be sent in to Aerzen to be inspected for rebuild or full replacement. Aerzen said the only major issue is that the bearing seat on the input shaft is undersized and will need to be sleeved and the unit is repairable at a cost of \$6,286.60.

Biofilter Rock Media: The biofilter started to plug back in July 2023. Thermal process was contacted and they suggested flooding the biofilter to try to free up the plugging. The flooding helped in the short term but didn't solve the issue of rock fines plugging the plenum. In late November it was decided to pull some of the rock out and look at the plenum. KES Excavating services was hired to vac out the rock and we found that the new haydite stone was crumbling and plugging the biofilter plenum. All the rock will need to be removed and screened or replaced to resolve the issue.

DAF Thickened Sludge Pump #2: The mechanical seal started to leak on the pump and needed to be repaired or replaced. Novaspect rep came in to look at the seal since it was a discontinued model. We are not able to rebuild the seal so he got us a replacement for \$3,014. We had an ongoing issue with the inspection plates not sealing after a cleaning because of stripped threads from years of service. Liberty process equipment was able to get us a complete new suction case to resolve this issue for \$2,499. The parts are ordered and should be in soon to be installed.

Peakflow West Wetwell Transducer: Transducer started to drift all over the place. The transducer was pulled and cleaned which didn't help. Todd (TVG) looked at it when he was onsite for calibrations and said it will need to be replaced. He was working on quotes to replace it.