

CVPCSD Monthly Report

April 2024

Daily average flow = 196 gpm

Daily Average Raw NTU = 6.85

Daily Average Finished NTU = 0.018

Water Plant –

- First annual sed basin sludge project. Rented pumps from PAC machine. Was able to get basin mostly dewatered the first day. Learned that we will start a bit earlier next time. Took a little longer than we thought. Learned that we will create some 1 ½" pvc pipe sections to run pumps to the filter pump. Creates more flow vs hoses.
- Sludge removal day went very smooth. Mostly gravity fed all the sludge out. Was able to use new wash down/dewater pump to clean walls, filter sump, and applied channel. Very dirty and weeds growing.
- Next day, we arrived to find the reclaim tank had been overflowing water front the sed basin(we assumed) overnight. Harry and I spent the better part of the day to try and figure out where the water was coming from. Tried to plug line, but water backed up into the reclaim tank, which was not going to work. Also, water began to seep out of the hill side below the sed basin. There is an isolation valve near the reclaim tank that I believe is on this line, but is seized. Needs to be replaced.
- The next day, we had Gerry come out to help trouble shoot. We looked at as-builts and found a 12" pipe on the drawings in the filter sump. There is a valve in line (2") on the hill that we thought maybe was the cause. Purchased 12" test ball plug, emptied sump and tried to plug. Nothing.
- Replaced valve on hill with Triton, nothing. We drew down sump again and had the ditch witch suck all debris out. Found drain (2") at the bottom. Created temporary plug. Did nothing.
- Gerry found on the plans that the sed basin has an under drain system for leaks in the basin to make it out to the lagoon (we think). We shut the plant off and the level equalized at the bottom of the applied channel. We used Sika Flex caulking to fill a bunch of cracks on the sidewall. Filled and nothing.

- Tyler from hydros noticed that at the bottom of the applied channel, along the whole run, there was an repair with concrete patch. It was all old can chipping away ad was rotted. They emptied again and we were able to fill with sika flex again. This time it actually cut the drain flow by about 50-60%. I have ordered a non-shrinking concrete grout and we will patch this week. Should fix it for now. We need to address the drain line and valve issue, as well as having an inspection for next year to assess the reliability of the basin concrete. I doubt this has ever been done, and we clearly have a void and some bad spots.

Distribution –

- Two curb stop repairs with Lorang bros
- Monthly sampling
- Will begin valve exercising and hydrant flushing in may/June
-

Summary

- Although we had some issues that were found due to aging infrastructure, the sludge cleaning went very well, and I think we luckily found these issues during maintenance (which is when you want to find them) and can make a plan for proper CIP repairs.
- We will plan to dry sludge over the summer and remove with a tractor in September.