

Water Plant

The water plant is running smoothly this month as the flows have drastically began to drop off as irrigation systems are being turned off. Current daily flows are around 0.6 MDG and continue to drop rapidly. Operations continues to work on plant optimization associated with shorter filter runs. The guys discovered that the back pressure valves on the filter effluent lines were actually restricting the flow through the filters. In order to test if opening the valves solved the filters flow restrictions a process analyzer had to be relocated in order to still receive flow. Once the analyzer was relocated and the valve was opened the filter production instantly increased and discharge to UV valve returned to a normal position. With the slower daily production rates it will take a few weeks to test this out and see if it works. It is also a challenging time of the year as the water temperature is dropping and we will likely be adjusting chemicals soon. We are still dealing with multiple valve failures and heater issues at the new plant. Bill is involved and working with Garney management helping us get this resolved.

We have not been able to continue the pilot study of the Daimand dewatering unit as we have had failures in each reclaim basin. This required pumping out and cleaning both basins to determine the cause of the failures. It was concluded the west basin stopped working due to a build-up of sludge and the east basin stopped working due to the hose on the floating decanter getting wrapped up on the sludge collector and breaking. The hose appeared to be installed improperly, it has since been fixed and the unit is working again. We also noticed while we were inspecting the basins that the configuration of some of the valves wasn't optimal for the type of sludge removal we were attempting to achieve. We plan to label the valve with "normally open & normally closed" tags for future reference.

Veris has gotten all the appropriate liners installed and they are currently pumping sludge into the Geo-Tube membranes. As a result of the emergency cleaning of the reclaim basins the sludge was pumped to the old backwash pond, we have indicated to Veris if this greatly impacted their estimated quantities we would be willing to adjust the quote.

American Demolition still hasn't completed their final punch list item. We will kept the \$14,000 of their retainage until it does. We are still waiting on them to provide us the final paperwork and pay apps as well.

Reynolds continues moving forward with the site work at the new water plant. All yard pipe has been installed and is tested out and in service. Final grading is happening currently and the site is being prepped for curb, gutter and asphalt. There was a design change that will require a change order, some grading modifications were made on the north west side of the site which required the size of the retaining wall to double in size. The additional cost for the increased size of the wall is around \$14,000, we will be receiving a couple various credits as a result of the design change as well in the amount of approximately \$5,000.

Reynolds has provided Sterling Ranch with a quote to perform the removal of their temporary construction water vault that is on our property. If accepted we will treat this as a change order to our contract and bill Dominion for 100% of the cost and they will seek reimbursement from the CAB. CAB has indicated they will be getting a second bid for comparison purposes.

In the month of October we treated 25 million gallons of water, 2.5 million was sent to Sterling Ranch.

Lift Stations

The lift stations are running smoothly, no issues to report on.

Dominion is performing some restoration work on the old WWTP A-Basin. The work being performed is to address the structural issues with the block walls.

In the month of October we pumped 18 million gallons of sewage to Littleton Englewood WWTP.

Field

The field remains busy this month, as locates have sort of slowed down, time has opened up to continue with valve exercising in both Roxborough and Sterling Ranch.

Approximately another 100 meters were installed last month getting us closer to completing our 2018 replacement project.

The Ravenna waterline project is underway, the contractor has begun mobilization and installation of the BMP's. Installation of the pipe is set to begin in about a week, the contractor has selected to bore the long stretch of pipe through the Ravenna golf course and will open cut the other two connections.

53 Ravenna customers have been sent letters regarding the condition of their meter pit of curb stop box mandating them to fix the deficiencies or we will and charge them. After a thorough review of the infrastructure we adopted it was discovered that many of these meter pits and curb stop boxes have been covered by landscaping. This is making our meter reading equipment fail as well as hinder our capability in case of an emergency to shut their water off.