

Forest View Acres Water District

Operations Report – December 2010
....Prepared by Gabrielle Begeman

Treatment Plants:

Arapahoe Water Plant:

- Booster pump fan and bearings began to go on the 14th of December. Devin w/ Applied Ingenuity got a replacement motor and installed it on December 21, 2010.
- Well has been functional in automatic mode, especially when the SWTP is not running. We had some issues with the well starting less frequently due to the production from the SWTP keeping up with usage. The moment we shut off the SWTP, the well automatically starts and stops as it should without the need for much attention.
- Work has begun on repairing all cla-valves at the AWP.
- There have been multiple instances of water loss, both metered and un-metered, that has ended up in the creek to the West of the AWP. Some of this water contains chemicals used to treat the finished drinking water. To prevent this from becoming a problem in the future, I plan on re-routing these drain pipes to the sanitary sewer with permission from Palmer Lake Sanitation. I also plan on metering the un-metered loss.

Transmission Line/Booster Station

- Booster station has had some issues with the pressure relief valve (PRV). This has caused a loss (sometimes up to 50%) out the back wall. This water is not metered and flows directly into the creek. The PRV has been repaired since then, but still needs adjusting. Adjustments should be made prior to the Board meeting.
- The recycle/loop function has been installed and overall has worked properly with few snags. We will create a standard operating procedure list for adjusting the cla-valves to work with the loop function or as pressure relief valves.
- Transmission line had been holding pressure up until last week. We discovered a large leak in the field near Vista View Road. The well continued to pump into the field for approximately 23 hours before it was caught and shut off. No damage to any structures occurred as far as we could tell. We decided not to fix the break and wait until the new transmission line was available to use the well.
- New transmission line is online and working well. All cla-valves will be adjusted today to work with the new pressure due to the new line not having any leaks.
- Heater at the AWP quit working and we had Central Heating and Air Conditioning come out to fix it.

Surface Water Plant:

- See attached production spreadsheet for particulars on water production
- The chemical pumps have been tied into the 4-20 mA signal from the plant effluent flow meter and are now flow paced. This has been done with the switches currently available. However, it would be more beneficial to upgrade the transmitter switch coming from the flow meter to three 4-20 mA outputs rather than one. This can be done for approximately \$300 and will entail sending the unit to the manufacturer to have an add on installed. This will mean that the SWTP will need to be down for 7-10 days, or we would be operating blindly.
- There has been a rockslide on the road to the inlet just past the no trespassing sign. We cannot get past this point and have not been able to access the inlet. However, flows from the inlet have been steady and incoming turbidities have remained relatively stable and low.
- The breaker box has been replaced.
- Quest was out and determined that the existing phone line had been cut somewhere and was no longer functional. Installation of a new line was determined to be the districts responsibility. I talked Kempton into trading this earthwork in exchange for pulling a few samples on the new transmission line. The telephone line has been installed and will be hooked up next week.
- We have determined the existing auto dialer is not functional. A new one can be purchased and installed for under \$700.
- After every backwash, there is an unknown amount of water used to re-pack the filters. This is un-accounted for water use.

Distribution system

- There was a main break near 18640 Clovenhoof on 12/27/10. Chiddix Brothers came out and fixed it. There is no way to warrantee these repairs as the line is a 1 1/2" and 1" irrigation type black poly line. We are repairing these types of breaks with irrigation type couplers. It would be beneficial to the district if we inventory these areas and replace the most problematic.
- The main tank was put back online on January 9, 2011. Golder was out to hook up the tank level indicator and we have determined that the tank level indicator installed has a range of 0-25'. We have confirmed that the tank is 28' tall. We will wait to fill the tank and see if we are able to fill past 25'. The sensor was previously configured to read greater than 25', but it is unknown if we were actually storing more water. The sensor is currently configured for 0-25' which is as accurate as we will get with a sensor that is outside of the range it needs to be.

Action Items:

1. SWWC is requesting the Act-Pack flow meter transmitter be upgraded to a triple output at the SWTP.
2. SWWC is requesting a new auto dialer be purchased for the SWTP.

SWWC Services, Inc.
6950 W. 54th Avenue
Arvada, CO 80002
Phone 303.307.3200
Fax 303.307.3201
www.swwc.com