Lake Limerick Water

Manager's Report

March 11, 2020

Lake Limerick Water System: Water Committee Meeting regarding February 2020.

The general condition of the water system is good, with reliable water availability to the customers.
SCADA is regularly monitored and operated everyday by NWS.

Well Conditions:

- ***Well #1*** is operating "normally".
- ***Well #2*** is still in stand-by and is considered a Seasonal use per Water Rights.
- ***Wells #3A/3B*** are operating "normally".
- ***Well #4*** is operating "normally" with oversight.
- ***Well #5*** is operating "normally".
- ***Well #6*** is operating "normally".

Water Usage:
3.7 million gallons were pumped in total from the sources for February, and 3.5 million gallons are documented as "sold". The loss for the month is 4.8%. Total loss for the year is 11.3%. Several service meter reads are questionable. Transition from Read Center to Beacon may present some challenges over the first 2-3 billing cycles.

Customer Concerns:
LLWS had 12 regular locates.

Water Sampling:
The bacteria samples for February were satisfactory.

Action Items

Well Site #4: There is a small leak at a 4" pipe joint in the pump house. This line is from the reservoir feeding the booster pump. Replacement booster pump is already onsite. I have requested an estimate from NWS to install the new booster pump and address the leak.

Well Site #3: The enclosure for Well #3b has been left unfinished. I will request project ideas and estimate from NWS. Open to suggestions from the committee for any other contractors.

Well Site #2: The enclosed VFD has been mounted. A fair amount of electrical re-configuration is in process, but left unfinished. I will contact RAM electric for estimate to complete this work. Open to suggestions from the committee for any other contractors.

Well Site #1: VFD is onsite. Installation has not begun. RAM for estimate…
Open to suggestions…
Reservoir top needs:
Temporary cover is installed over target float wire entrance. Permanent solution is needed. Per email correspondence with DOH; since a transducer exists and is used to monitor the reservoir level, a physical target is not necessary.

SCADA

There are several issues all stemming from within the programming / improper tags. Status as follows..

Well Pumps - All well pumps are operable and working per reservoir levels and/or set points. Well pump operation is NOT visible per the operating screen. Verification of operation is achieved by monitoring the reservoir levels and acquiring physical source meter reads. Man/Off/Auto switches do work however do not display on the screen, and are always showing to be in Auto.

Booster Pumps – All booster pumps are operable and working per set points. Booster pump operations are visible at Site #1 and Site #4. Booster pump operation at Site#3 and Site #6 are not visible on the screen. Verification of operation is achieved by monitoring the reservoir levels. Site #6 also shows booster flow in gallons.
Man/Off/Auto switches do work, however do not display on the screen and are always showing to be in Auto.

Alarms – "Pump Fail" occurs every time booster #1, booster #4, and well pump #5 turn on. These alarms are false.
#3 PLC Battery low alarm. Not verified.