



**April 12, 2021
Reminder Water Tank Inspection**

Dear QCBFD,

The Fire District Public Water System water storage tank will be undergoing an internal inspection, cleaning, and inlet pipe modification from this Tuesday, April 13, 2021 through Friday April 16, 2021.

The water system will be temporarily modified so that water will flow directly from the wells and bypass the storage tank.

After the tank inspection and maintenance is complete, it will be sanitized with chlorine, filled, samples taken to confirm absence of bacteria, and then placed back online. While we do not anticipate any issues, there is a small probability the water storage tank may not be brought back online through the weekend

This is all being performed in compliance with RIDOH protocols

We ask that water usage for these several days be kept to an absolute minimum. Therefore no hand held garden watering, car washing, deck cleaning, or use of pressure washing equipment. If water demand should exceed the water flow of our well pumps, about 80 gallons/minute, then the distribution pressure will fall below the critical 20 mmHg level and a short term Boil Water Advisory would need to be instituted.

WATER SYSTEM UPDATE

As discussed at last year's Annual Meeting we are preparing to install a 4-log chemical disinfection system for our water system per a RIDOH mandate.

RIDOH compliant design plans were provided to RIDOH in June 2020. RIDOH in November 2020 provided the Fire District with comments and questions about the chlorine level calculations to which a response was submitted.

We are awaiting RIDOH's review and their final approval of these calculations before we can proceed with installation of the disinfection system.

We are anxious to get the system installed before the summer season to minimize any impact on water supply and delivery. That of course depends upon the RIDOH review process.

We would like for the chlorine residual level in the water at the end -user, i.e the water coming out of your tap, be as close as possible to 0.2 mg/ml, the minimum chlorine residual level required by RIDOH. This chlorine residual level is dependent upon many factors, such as contact time, reductive agents in the water, flow, volume, and temperature (collectively the "chlorine demand") and may take several weeks or months to properly titrate and equilibrate. We expect there may be an impact on the water quality and taste.

Most people can sense (through taste or smell) a chlorine residual at 1 mg/l, and while we are aiming for 0.2 mg/ml a chlorine residual of we expect a chlorine residual of 0.5 to 0.8 to be where RIDOH will most likely start us.

Almost certainly the chlorine levels will fluctuate for several months until a steady state for our water system can be reached.

I would STRONGLY recommend that homeowners research and invest in a whole house or faucet carbon filter to remove residual chlorine taste especially if you are sensitive to chlorinated water. Discuss this with your plumber.

This disinfection system is primarily designed to run exclusively off of Well #1 because of the elevated iron levels of Well #2. However the system has been designed so that in an emergency, and as a backup, we would be able to disinfect water from well #2 for several days if necessary.

A proper water treatment facility to remove iron and other contaminants from both of our wells, as presented and discussed at the 2020 virtual Annual Meeting, would allow unrestricted use of water from both wells and continues to be researched and designed. Given the unique character of our wellfield and regulatory requirements this is a complex undertaking which will take at least 24 to 36 months to fully research, design and pilot test the various technologies.

REMINDER OF WATER AND ROAD QCBFD RULES AND REGULATIONS

- **Watering of lawns and shrubs using water from the QCBFD community wells (Water System) is limited to hand held sprinkling devices only. No soakers or sprinklers at the end of hoses. This rule applies year round.**
- **Between June 30th and the Tuesday after Labor Day we ask that residents make an effort to do outside watering only before 8 a.m. and after 8 p.m.**
- **Homeowners who have underground sprinkler systems may not be connected to the QCBFD Public Water System.**
- **The use of the QCBFD Public Water System to fill and maintain pools (other than small children's pools) is prohibited. (Approved at 2018 Annual Meeting)**
- **There are strict rules forbidding "cross connections" of private water systems, private wells, swimming pool systems, and in-ground watering systems to the QCBFD Water System. If you have any questions on these restrictions, please contact publicworks@quonniecentral.org. The Public Works Committee will continue to assess compliance.**

Please stay healthy and safe. Hope to see you all soon this summer.

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