The District of New Hazelton Water System Annual Report for 2019

Water for the District of New Hazelton is a surface source taken from Station Creek. The water is piped 900m to the water treatment plant. The water is then filtered through Slow Sand and chlorinated before being fed to the reservoir to be used for consumption and fire flow through. In addition, there is an impoundment to store water for use in cases of emergencies or high turbidity events.

The District of New Hazelton has a population of 580. The number of residential connections for New Hazelton is 323 and 69 commercial or industrial connections.

The District of New Hazelton also supplies water to Hagwilget Village. They have a population of 238 with 82 residential connections and 4 commercial connections.

Bacteriological sampling is done 2 times a month from 3 locations that are representative of our distribution system. Once a week, an audit sample is taken from 3 test locations to test the water for E.coli/coliform using the "Colilert" method. Sampling is up to date and completed as per the requirements of the Operating Permit. Chlorine residuals are monitored daily from the 3 locations within the distribution system and all records show that the residuals are maintained at a minimum of 0.2ppm (free chlorine) at the ends of the distribution line. We sent in 48 samples for the year. There were zero (0) samples showing the presence of total coliforms or E. coli.

Our water quality data can be viewed at www.healthspace.ca/nha .

2019 saw another extension of the 13th Avenue Waterline Upgrade Project. The project began in 2017 as the District of New Hazelton was awarded a Capital Infrastructure Grant Funding from the Federal Government of Canada and the Province of BC. The extension was a tie in from 14th avenue to 13th avenue on Laurier Street. The 4" asbestos cement waterline was replaced with 6" PVC waterline and an old connection point from the Waterfall Trail was abandoned. Paving and landscaping are scheduled for summer of 2020. This last section completes the upgrade project that began in 2017, and final reporting in underway.

The New Hazelton Water Treatment Plant saw an upgrade to its Supervisory Control And Data Acquisition system (SCADA). A SCADA system is the brain of the Water Treatment Plant. It is a tool that water operators use to assist them to deliver clean drinking water to residents. This system shows how much water is coming into the plant, how much chlorine is in the water, and how much water is in the reservoir that is available to residents, among many other technical details. The previous SCADA system was outdated and was becoming unreliable. The upgrade took place over the first week of December with great success, and the water operators for the District of New Hazelton have reported only needing minor adjustments to the new system.

In the fall of 2019 one of the water operators for the District of New Hazelton successfully completed a Water Distribution level-II course in Vernon, BC. They were also successful writing

their level-II certification exam with the Environmental Operators Certification Program (EOCP). The District of New Hazelton now has an operator certified to the proper levels in our Water Treatment Plant and Water Distribution System, and is fully compliant with the EOCP and Northern Health Authority regulations.

The summer of 2019 was wetter than usual and assisted residents with their water conservation efforts. The District of New Hazelton Water Conservation Plan was initiated at the end of May and ended in at the beginning of September. The Water Distribution System saw an annual water usage that was to be expected and was similar in usage to the previous year.

Also, testing for THM's and HAA's has continued through 2019 quarterly.

In summary the District of New Hazelton has had a successful year in meeting our water quality guidelines and goals and upgrading our water distribution system.

For any additional information you can contact our District office at 250-842-6571.