

Public Notification for Total Trihalomethane Exceedance
Village of Delanson Drinking Water System
Public Water Supply # NY4600064
4th quarter 2017 through 2nd quarter 2018

Our water system recently violated a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and what we are doing to correct this situation.

We routinely monitor for the presence of contaminants in drinking water. Each calendar quarter samples are collected and analyzed to determine the levels of Haloacetic Acids (HAA) and Trihalomethanes (TTHM). HAAs and TTHMs are a byproduct of drinking water disinfection, which is needed to kill harmful organisms. An average of four quarterly samples is used to determine compliance with the New York State public drinking water standard. Samples are collected at the Town's maximum residency location.

In samples collected during the 4th quarter of 2017 and the 1st and 2nd quarters of 2018, the average level of TTHMs was 92.4, 94.2, and 86.1 micrograms/liter (ug/l) respectively for the previously listed quarters at the sample site. These levels exceed the New York State public drinking water standards of 80 ug/l. Exceedance of the standards is not an immediate health hazard, but indicates that actions should be taken by the supplier of water to reduce contaminant levels and lower the potential for long term exposure.

TTHMs are formed in drinking water during treatment by chlorine (the most commonly used disinfectant in New York State), which reacts with naturally-occurring organic material (e.g., decomposing vegetation such as tree leaves, algae, or other aquatic plants) in surface water sources such as rivers and lakes. The amount of TTHMs in drinking water can change from day to day, depending on the temperature, the amount of organic material in the water, the amount of chlorine added, and a variety of other factors. Drinking water is disinfected by public water suppliers to kill bacteria and viruses that could cause serious illnesses. For this reason, disinfection of drinking water by chlorination is beneficial to public health.

Some studies suggest that people who drank water containing trihalomethanes for long periods of time (e.g., 20 to 30 years) have an increased risk of certain health effects. These include an increased risk for cancer and for low birth weights, miscarriages and birth defects. The methods used by these studies could not rule out the role of other factors that could have resulted in the observed increased risks. In addition, other similar studies do not show an increased risk for these health effects. Therefore, the evidence from these studies is not strong enough to conclude that trihalomethanes were a major factor contributing to the observed increased risks for these health effects. Studies of laboratory animals show that some trihalomethanes can cause cancer and adverse reproductive and developmental effects, but at exposures much higher than exposures that could result through normal use of the water. The United States Environmental Protection Agency reviewed the information from the human and animal studies and concluded that while there is no causal link between disinfection byproducts (including trihalomethanes) and human health effects, the balance of the information warranted stronger regulations that limit the amount of trihalomethanes in drinking water, while still allowing for adequate disinfection. The risks for adverse health effects from trihalomethanes in drinking water are small compared to the risks for illness from drinking inadequately disinfected water.

What does this mean for you?

At present, the water is suitable to drink, cook with, and bathe in. Some people may wish to take additional practical measures to reduce their exposure. We do not consider these measures necessary to avoid health effects, but they are provided as options. These include using bottled water for drinking and cooking purposes, or using water pitchers containing an activated carbon filter or a tap-mounted activated carbon filter. These

filters are readily available in many grocery and home improvement stores. Ventilating bathroom areas (e.g., using exhaust fans or opening windows) when showering or bathing can also help reduce exposures from chemicals released into the air.

What is being done?

The Village is taking this situation very seriously and is working with the Health Department and Lamont Engineering to find a solution to current problems in an effort to prevent this from happening in the future. If you have any questions or concerns please contact the Village of Delanson Offices at (518) 895-2199.