

Town of Hume Water Department
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Fillmore, NY 14735-0302
585-567-8082



Fed ID #NY0200318

WATER QUALITY REPORT 2017

To comply with State and Federal regulations, the Town of Hume Water Department will annually issue a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. This report provides an overview of last year's water quality. Included are details about where your water comes from and what it contains.

If you have any questions about this report or concerning your drinking water, please contact the water operator, Scott Willgens, at 585-567-8082, or 585-808-4280. We want you to be informed about your drinking water. If you want to learn more, you might attend any regularly scheduled Town Board meeting. The monthly meeting is at the Wide Awake Club Library in Fillmore on the 2nd Wednesday of each month at 7:00 PM.

WATER SOURCE & SYSTEM INFORMATION

In general, the sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Hume Water District #1 has a well located in the Fillmore Park. The well is 126 feet deep with a 12" casing. It is capable of producing 240 gallons of water per minute. The treatment of this water consists of the application of sodium hypochlorite as a disinfectant to control bacteria, and phosphate to treat the iron content in the water; however, at this time the well and treatment plant are not used regularly as the Water District purchases its water from the Houghton Water District. The well and treatment plant is kept on standby in case of emergency or for future permanent use.

As indicated above the Hume Water District purchases its drinking water from the Houghton Water District in the Town of Caneadea. Attached is Houghton Water District (Caneadea's) Annual Water Quality Report.

The Town of Hume serves about 700 people with about 325 service accounts. The Town of Hume received 24429000 gallons of water from Caneadea in 2017. On average that's 66,929 gallons of water per day. The town water operators clean the water tanks once a year in the

spring. Hydrants are flushed once a year. All dead end hydrants are flushed on a monthly and on an "as need basis" to keep our water fresh and chlorinated.

The water for the Houghton Water District comes from drilled wells (300 feet deep) which are located just north of Chamberlain Street on the West side of Route 19. The water is treated with gas chlorine for disinfection, and an orthophosphate (TCP-532) for corrosion control, which controls the leaching of lead and copper from the plumbing in homes. In addition Ferric Chloride is added to aid in the filtration for Arsenic removal.

AWQR SUMMARY

The New York State Department of Health has completed a Source Water Assessment for this water system, based on available information. Possible and actual threats to the source of drinking water for this system were evaluated. The Source Water Assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. Please refer to the section in the Annual Water Quality Report (AWQR) entitled "Are There Contaminants In Our Drinking Water?" for a list of the contaminants for which the water has been tested and the test results. The source water assessments provide managers with additional information for protecting source waters into the future.

The water for this system comes from one (1) drilled well. The Source Water Assessment has rated the well as having high susceptibility to contamination from enteric bacteria and nitrates. This is due primarily to the close proximity of the well to a New York State Department of Environmental Conservation (DEC) permitted facility that discharges wastewater into the environment. The fact that the well draws water from an unconfined aquifer also contributes to the high susceptibility ratings.

Please note that while the Source Water Assessment rated the well as having a high susceptibility to bacteria, the water is disinfected before it is delivered to your home to ensure the finished water meets New York State drinking water standards for bacterial contamination.

ARE THERE CONTAMINANTS IN OUR WATER?

New York State regulations require that we routinely test your drinking water for numerous contaminants including total coliform, inorganic compounds, nitrate, nitrite, lead, copper, volatile organic compounds, total trihalomethanes, radiological, and synthetic organic compounds. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.

It should be noted that all drinking water, including bottled drinking water, might be reasonably expected to contain at least small amounts of contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

DEFINITIONS:

1. Maximum Contaminant Level (MCL). The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.
2. Maximum Contaminant Level Goal (MCLG). The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
3. Action Level (AL). The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.
4. Treatment Technique (TT). A required process intended to reduce the level of a contaminant in drinking water.
5. Non-Detects (ND). Laboratory analysis indicates that the constituent is not present.
6. Milligrams per liter (MG/L). Corresponds to one part of liquid in one million parts of liquid (parts per million -- ppm).
7. Undetected (U). Laboratory analysis indicates that the constituent is not present.

8. Micrograms Per Liter (UG/L). Corresponds to one part of liquid in one billion parts of liquid (parts per billion – ppb).

9. Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

10. Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

Town of Hume Table of Detected Contaminants							
Contaminant	Violation yes/no	Date of Sample	Level Detected	Unit of Measure	MCLG	Regulatory Limit	Likely Source of Contamination
SODIUM	NO	2/15/2017	35.8	MG/L	N/A	N/A	Natural ground deposit.
Lead*	NO	8/16/2017	2.15	UG/L	15	15	Leaching of household plumbing Natural ground deposit
Copper*	NO	8/16/2017	460	UG/L	1300	1300	Corrosion of Household Plumbing, Erosion of Natural Deposits, Leaching from Wood Preservatives
Iron	NO	5/8/2014	0.094	MG/L	0.3	0.3	Natural ground deposit
THM's (Trihalomet-hanes)	NO	11/09/2017	39.6	UG/L	80	80	By-product of drinking water chlorination
HAA5's (Halo acetic acids)	NO	11/09/2017	5.4	UG/L	60	60	By-product of drinking water chlorination
Gross Alpha	NO	9/13/2013	2.69	pCi/L	15	15	Natural ground deposit
Radium 226& 228 (combined)	NO	9/13/2013	1.22	pCi/L	5	5	Natural ground deposit
Barium	NO	6/21/2017	227	UG/L	2000	2000	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.

*The level presented represents the 90th percentile of the 5 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the lead and copper values detected at your water system. In this case, 5 samples were collected at your water system and the 90th percentile value was the average of the highest and second highest. The action levels for lead and copper were not exceeded at any of the sites tested. *The range detected for copper lowest level 59.2 ug/l to highest level detected was 501ug/l .The range for lead from lowest 2.1to highest level detected 2.2 ug/l **Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets .

More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791) or the Allegany County Health Department (585-268-9250.)

Houghton Water District TABLE OF DETECTED CONTAMINANTS

CONTAMINANT	VIOLATION YES / NO	LEVEL DETECTED	UNIT OF MEASURE	MCLG	MCL	LIKELY SOURCE OF CONTAMINATION
ARSENIC 1/12/2017	NO	0.009	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 2/13/2017	NO	0.0096	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 3/13/17	NO	0.0053	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 4/11/2017	NO	0.0058	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 5/2/2017	NO	0.0075	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 6/14/2017	NO	0.012	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 7/12/2017	NO	0.0053	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 8/9/2017	NO	0.007	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 9/12/2017	NO	0.010	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 10/02/2017	NO	0.0096	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 11/13/2017	NO	0.059	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
ARSENIC 12/11/2017	NO	0.0082	MG/L	N/A	0.010	NATURALLY PRESENT IN THE ENVIRONMENT
SODIUM 2/115/2017	NO	35.8	MG/L	N/A	NONE	9 NATURAL DEPOSITS
CHLOROMETHANE 8/9/2017 11/8/2017	NO	0.0011 .0013	MG/L	0.005	0.005	BY-PRODUCT OF DRINKING WATER CHLORINATION
BROMOMETHANE 8/10/2016 11/9/2016	NO NO	0.0007 0.00055	MG/L	0.005	0.005	BY PRODUCT OF DRINKING WATER CHLORINATION BY-PRODUCT OF DRINKING WATER CHLORINATION

			MG/L	0.005	0.005	
GROSS ALPHA 7/11/2013	NO	3.95	pCi/L		15	NATURAL GROUND DEPOSIT
GROSS ALPHA 10/10/2013	NO	2.17	pCi/L		15	NATURAL GROUND DEPOSIT
RADIUM 226 & 228 (COMBINED)7/11/2013	NO	1.28	PCi/L		5	NATURAL GROUND DEPOSITS
RADIUM 226 & 228 (COMBINED) 10/10/2013	NO	1.96	pCi/L		5	NATURAL GROUND DEPOSITS
BARIUM 4/7/2016	NO	0.0410	MCG/L	2.0	2.0	DISCHARGE FROM METAL REFINERIES EROSION OF NATURAL DEPOSITS
FLOURIDE 4/7/2016	NO	0.2	MG/L	2.2	2.2	EROSION OF NATURAL DEPOSITS WATER ADDITIVE

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DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded State and Federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791.)

New York State Systems Supervisor Program, State Sanitary Code Part 5, recommends that persons on a severely restricted sodium diet should not drink water containing more than 20MG/L of sodium without consulting their physician first.

FOR YOUR INFORMATION FILES:

- Billing & Account Information: 585-567-2666
- Water & Sewer Department: 585-567-8082
- Web site: www.humetown.org
- **Emergency Service: 585-808-4280**
Email: humetown@rochester.rr.com
- The Hume Town Board meets on the 2nd Wednesday of each month at 7:00 PM at the Town Museum, Fillmore wide awake library club Fillmore NY. The meetings are open to the public.