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Annual Drinking Water Quality Report for 2020

Village of Hoosick Falls 24 Main Street, Hoosick Falls, NY 12090 Public Water Supply Identification Number NY4100041

INTRODUCTION

To comply with State regulations, the Village of Hoosick Falls, will be annually issuing 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 is an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to New York State standards. Our constant goal is and always has been, to provide to you a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and to protect our water resources. If you have any questions concerning this report or concerning your drinking water please contact: Mr. Francis J. Hurlburt, Chief Water Operator, Village of Hoosick Falls, 24 Main Street, Hoosick Falls, NY 12090 Telephone (518) 686-0200; We want our valued customers to be informed about their drinking water. If you want to learn more, please attend any of our regularly scheduled Village Board meetings. They are held on the 2nd Tuesday of each month, 6:00 PM at the Village Hall, 24 Main Street, Telephone (518) 686-7072 or e-mail us at Villageclerk@hoosick.org

WHERE DOES OUR WATER COME FROM?

The Village of Hoosick Falls is served by three drilled wells (3, 6 & 7) using an aquifer that borders the Hoosick River. The wells were deemed Ground Water Under the Direct Influence of Surface Water (GUIDI). Because of this designation we are required to comply with the Surface Water Treatment Rule (SWTR) and provide filtration.

Pumping capacity for each well is approximately 900,000 gallons per day. Treatment of the raw water consists of chlorination in order to protect against contamination from harmful bacteria and from other organisms. A polyphosphate compound is also added for corrosion control. This serves to reduce lead and copper leaching into the water from residential water pipes, minimize corrosion in the water mains and minimize discoloration from iron and manganese, thereby reducing staining of plumbing fixtures and laundry. We have a 360,000-gallon storage tank located at Rensselaer Street and a 300,000-gallon storage tank at Rogers Avenue to meet consumer demand and to provide adequate fire protection.

The Village of Hoosick Falls has a 1.5 MGD membrane filtration plant. Water is pumped from our 3 wells and chlorinated. Potassium permanganate is added to aid in iron and manganese oxidation and removal. The water then flows to a 26,000-gallon pretreatment tank where the chemical treatment is given additional time to work. From the pretreatment tank the water then travels to two skids with 32 membrane filters each. Each membrane can filter out particulate material as small as 3 microns which includes the microorganisms Cryptosporidium and Giardia. In 2017 a permanent Granular Activated Carbon Filtration system was installed for the removal of organic contaminants. After filtration the water flows to a 171,000-gallon contact tank to provide adequate time for the disinfection process to proceed. We also have 68,000-gallon clearwell storage after the water is treated.

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 naturallyoccurring 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 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.

FACTS AND FIGURES

The Village provides water through approximately 1,500 service connections to a population of approximately 4,500 people. Our average daily demand is 262,141 gallons. Our single highest day was 479,645 gallons. The total water produced in 2020 was 95,681,782 gallons. Currently 95% of the village limits is currently metered and read quarterly. We estimate the amount of water produced to the amount of water billed results in approximately a 14.2% loss. The unaccounted water can be attributed to water usage for fire protection, water main breaks and leaks. The annual average charge for water within the village limits per household is \$4.94 per 1000 gallons. Customers outside the village are billed at \$7.20 per 1000 gallons. Sewer is billed at \$4.85 per 1000 gallons within the village limits and \$7.41 outside the village.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

In accordance with State regulations, the Village of Hoosick Falls routinely monitors your drinking water for numerous contaminants. We test your drinking water for inorganic contaminants, radiological contaminants, lead and copper, nitrate, volatile organic contaminants, haloacetic acids, trihalomethanes and synthetic organic contaminants. In addition, we test 4 samples for coliform bacteria each month. The table presented below depicts which contaminants were detected in your drinking water. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old and is noted. For a listing of the parameters we analyzed that were not detected along with the frequency of testing for compliance with the NYS Sanitary Code, see Appendix A.

It should be noted that all drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily pose a health risk. 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 Rensselaer County Health Department (518) 270-2626.

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table on page 4, our system had no violations. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2020, the Village of Hoosick Falls was in compliance with applicable State drinking water operating, monitoring and reporting requirements.

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 microbiological pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

INFORMATION ON PFOA TESTING

As you know PFOA has been detected in the Hoosick Falls Wells. A carbon filtration system has been installed to remove these contaminants. For the test results concerning the Hoosick Fall Public Water Supply you can check the Town of Hoosick Falls web site, contact the Rensselaer County Health Department or the NYS Health Department Bureau of Public Water Supply.

WATER SOURCE RESTRICTIONS

Well #3 has been removed from service and is being used as a back-up due to water quality issues. The Department of Environmental Conservation redeveloped Well #3 but high iron and manganese levels clog the filters and until the water quality issues can be resolved the well will only be used for emergency back-up.

INFORMATION ON LEAD

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village of Hoosick Falls is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead

WHAT IS THE SOURCE WATER ASSESSMENT PROGRAM (SWAP)?

To emphasize the protection of surface and ground water sources used for public drinking water, Congress amended the Safe Drinking Water Act (SDWA) in 1996. The amendments require that New York State Department of Health's Bureau of Public Water Supply Protection is responsible for ensuring that source water assessments are completed for all of New York's public water systems.

A source water assessment provides information on the potential contaminant threats to public drinking water sources:

- each source water assessment will: determine where water used for public drinking water comes from (delineate the source areas)
- Inventory potential sources of contamination that may impact public drinking water sources
- Assess the likelihood of a source water area becoming potential contaminated

A SWAP summary for our water supply is attached to this report.

WATER CONSERVATION TIPS

The Village of Hoosick Falls encourages water conservation. There are a lot of things you can do to conserve water in your own home. Conservation tips include:

- Only run the dishwasher and clothes washer when there is a full load
- Use water saving showerheads
- Install faucet aerators in the kitchen and the bathroom to reduce the flow from 4 to 2.5 gallons per minute
- Water gardens and lawn for only a couple of hours after sunset
- Check faucets, pipes and toilets for leaks and repair all leaks promptly
- Take shorter showers

CAPITAL IMPROVEMENTS

There were no major capital improvements made to the water system in 2020.

CLOSING

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit our customers. We ask that all our customers help us protect our water sources. Please call our office if you have questions.

Hoosick Falls Village Public Water System PWSID# NY4100041 Source Water Assessment Summary

The NYS DOH has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The state 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. See section "Are there contaminants in our drinking water?" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

As mentioned before, our water is derived from 3 drilled wells. The source water assessment has rated these wells as having a medium-high susceptibility to microbials, nitrates, industrial solvents, and other industrial contaminants. These ratings are due primarily to the close proximity of permitted discharge facilities (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) to the wells, chemical bulk storage, and a hazardous waste site in the assessment area. In addition, the wells are prone to flooding, have detection of halogenated solvents at levels consistent with a high chemical sensitivity, and the overlying soils are not known to provide adequate protection from potential contamination.

While the source water assessment rates our well(s) as being susceptible to microbials, please note that our water is disinfected to ensure that that the finished water delivered into your home meets New York State's drinking water standards for microbial contamination.

A copy of the full Source Water Assessment, including a map of the assessment area, is available for review by contacting us at the number provided in this report.

			ALLS TABLE OF				
Contaminant	Violatio Y/N		Unit Measurement	MCLG	MCL	Likely Source of Contamination	
Inerganic Contaminants (sample data from 3/9	20 unless otherwi	se noted) ranges	represent the lowest	and highest leve	els detected		
Barium	N	178	ppb	2000	2000	Naturally occurring	
Chloride	N	133	ppm	N/A	250	Geology; Naturally occurring	
Copper (samples from 9/22/16) Range of copper concentrations	N	0.76 ¹ ND-1.65	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives	
Lead (samples from 9/22/16) Range of lead concentrations	N	ND ² ND-0.012	ppm	0	AL=0.015	Corrosion of household plumbing systems, erosion of natural deposits	
Nickel	N	1.2	ppb	N/A	N/A	Naturally occurring	
Nitrate	N	0.234	ppm	10	10	Erosion of natural deposits	
Odor	N	1	units	N/A	3	Natural sources	
pH	N	7.45	units	N/A	6,5-8,5		
Sodium ³	N	89.3	ppm	N/A	N/A	Geology; Road Salt	
Sulfate	N	19.9	ppm	N/A	250	Geology	
Synthetic Organic Chemicals (samples from 10	/19/20						
2,4-D (И	0,173	ppb	N/A	50	Release to the environment by its application as a pesticide used to control broad leaf needs in agriculture and for control of woody plants along roadsides, railways, and utility rights-of- way.	
Volatile Organic Chemicals (3/9/20)		•					
Vinyl Chloride (Well #6 Raw Water)4	Y	2,1	ppb	0	2	Degradation of other chemicals leaching from waste sites, spills	
1,2 -Dichloroethane4	N	1.4	ppb	N/A	5	Discharge from industrial chemical factories	
Microbiological Contaminants	- 11 m			1.4.2		말하면 하는데 그 사람들이 가면 되는데.	
Turbidity ⁵ (sample from 9/11/20)	N	0.058	NTU	N/A	TT=5 NTU TT= % samples	Soil runoff	
					< 1.0		
Stage 2 Disinfection Byproducts (samples from							
Total Trihalomethanes (TTHM) average range	N	3,1 ⁶ ND-8,6	ppb	0	80 ⁵	By-product of drinking water chlorination	
Chlorine (average) [daily samples]	N	1.57	ppin	MRDLG	MRDL	Used in the disinfection and treatment of	
Range NOTES-		0.79-2.15		N/A	4	drinking water	

NOTES-

- 1. The level presented represents the 90th percentile of 20 test sites. The action level for copper was not exceeded at any of 20 the sites tested.
- 2. The level presented represents the 90th percentile of 20 test sites. The action level for lead was exceeded at 1 of 20 the sites tested.
- 3. Water containing more than 20 ppm should not be consumed by persons 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.
- 4. The Vinyl chloride and 1,2 Dichloroethane was on the untreated water. A treated water sample that goes through the carbon contactors was collected subsequently and there was no vinyl Chloride and 1,2 dichloroethane detected.
- 5. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Level detected represents the highest level detected. The regulations also require that 95% of the turbidity samples collected have measurements below 1.0 NTU. Although, January 2020 was the month when we had the fewest measurements meeting the treatment technique for turbidity, the levels recorded were well within the acceptable range allowed and did not constitute a treatment technique violation.
- 6. The average shown represents the highest Locational Running Annual Average (LRAA) at the 4 sites sampled in 2020. The highest LRAA for the THMs was in the 3rd quarter of 2020.

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or µg/l, corresponds to one part of liquid in one billion parts of liquid.

Parts per trillion (ppt) or ng/l, corresponds to one part of liquid to one trillion parts of liquid

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

90th Percentile Value- The values reported for lead and copper represent the 90th percentile. 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

Action Level - the concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.

Maximum Contominant Level - The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal The "Goal" (MCLG) is 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.

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.

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

Locational Running Annual Average (LRAA): The LRA is calculated by taking the average of the four most recent samples collected at each individual site

N/A-Not applicable

Appendix A

	Public W	ater Supply Identification Number N		
CONTAMINANT	MONITORING FREQUENCY	CONTAMINANT	CONTAMINANT	MONITORIN FREQUENCY
		POC		
		Benzene	Trans-1,3-Dichloropropene	
Antimony		Bromobenzene	Ethylbenzene	Monitoring
	Monitoring requirement is	Bromochloromethane	Hexachlorobutadiene	requirement in one sample annually
Beryllium	l sample every year	Bromomethane	Isopropylbenzene	
Cadmium	Sample from 3/9/20	N-Butylbenzene	p-Isopropyltoluene	
Chromium	,	sec-Butylbenzene	Methylene Chloride	Samples from
Cyanide		Tert-Butylbenzene	n-Propylbenzene	3/9/20 & 4/6/2
Fluoride		Carbon Tetrachloride	Styrene	Wells 3,6 & 7
Non-Detect		Chlorobenzene	1,1,1,2-Tetrachloroethane	7
Mercury	- Ron-Detect	2-Chlorotoluene 1,1,2,2-Tetrachloroethane		····
		4-Chlorotoluene	Tetrachloroethene	Non-Detect
Nitrate	-	Dibromethane	Trichloroethene	-{
Selenium		1,2-Dichlorobenzene	1,2,3-Trichlorobenzene	4
Silver	┦	1,3-Dichlorobenzene	1,2,4-Trichlorobenzene	-
Thalium		1,4-Dichlorobenzene	1,1,1-Trichloroethane	4
11111111		Dichlordifluoromethane*	1,1,2-Trichloroethane	4
		1.1-Dichloroethane	1,1-Dichloroethane	-{
Color		1,2 Dichloroethane (Wells 3& 7)	Trichlorofluoromethane	-
Coloi	-	1,1 Dichloroethene		-
Sulfate	Monitoring requirement is		1,2,3-Trichloropropane	.
Iron	at State discretion	cis-1,2 Dichloroethene	1,2,4-Trimethylbenzene	-
non		Trans-1,2-Dichloroethene	1,3,5-Trimethylbenzene	
Manganese	Sample 3/9/20	1,2 Dichloropropane	m-Xylene	
Zinc	┪	1,3 Dichloropropane	o- Xylene	-
***************************************		2,2 Dichloropropane	p-Xylene	-
	Non-Detect	1,1 Dichloropropene	Vinyl chloride (Wells#3 & #7)	-
		Cis-1,3-Dichloropropene	MTBE	-
		Total Coliform & E. coli		Monitoring is a samples/ montion. Non-Detect
			· · · · · · · · · · · · · · · · · · ·	Paragram and Co
		Radiological Parameters Gross Alpha-Beta Scan		1 November to a
			220	Monitoring is I sample every 6
		Radium 226	N/A	9 years
				Non-Detect
		Synthetic Organic Chemicals		
Synthetic Organic Che		Synthetic Organic Chemicals (Grou		
Alachior	Aldicarb	Aldrin	Benzo(a)pyrene	Monitoring
Aldicarb Sulfoxide Atrazine	Aldicarb Sulfone Carbofuran	Butachlor	Carbaryl	requirement is
Chlordane	Dibromochloropropane	Dalapon Di(2-ethylhexyl)pthalate	Di(2-ethylhexyl)adipate Dicamba	sample every 18 months:
2,4-D	Endrin	Di(2-etnylnexyl)pthalate Dieldrin	Dinoseb	Sample from
Ethylene Dibromide	Heptachlor	Diquat*	Endothall*	10/19/20
Lindane	Methoxyhlor	Glyphosate*	Hexachlorobenzene	Non-Detect
'CB's	Toxaphene	Hexachlorocyclopentadiene	3-Hydroxycarbofuran	*State waiver
2,4,5-TP (Silvex)	1,4-Dioxane	Methomyl	Metolachlor	does not
PFOA	PFOS	Metribuzin	Oxamyl vydate	require monitoring
		Pichloram	Propachlor	these
	1	Simazine	2,3,7,8-TCDD (Dioxin)*	compounds