

***Annual Drinking Water Quality Report for 2022***  
***Heritage Springs Water Works, Incorporated***  
***Town of Milton, New York***  
***(Public Water Supply ID#NY4522501)***

**INTRODUCTION**

To comply with New York State Department of Health regulations, Heritage Springs Water Works 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. Last year, your tap water met all State drinking water health standards. We are proud to report that our system did not violate a maximum contaminant level or any other water quality standard. This report provides 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 State standards. A copy of this Annual Report is also available on our web page at [www.heritage-springs.com](http://www.heritage-springs.com).

If you have any questions about this report or concerning your drinking water, please do not hesitate to contact our office at (518) 371-7942 during regular business hours. We can also be reached by email at: [info@heritage-springs.com](mailto:info@heritage-springs.com), or by writing: HSWW, 900 Route 146, Clifton Park, NY 12065. In the event of a water emergency, please call (518) 889-9111.

**WHERE DOES OUR WATER COME FROM?**

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 Departments and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water sources are groundwater wells; groundwater is withdrawn from seven drilled wells in three different locations. The depth of the wells varies from 58 to 250 feet. We have water sources and water treatment plants (WTP's) that all feed into a common distribution system. The WTP's are known as Deer Run (DR), Milton Oaks (MO) and Kayaderosseras Estates (KE).

At the Deer Run source, as the water is pumped from three wells, while the water is transferred to the four concrete storage/contact tanks (approx. 400,000 gallons) it is disinfected with sodium hypochlorite. The water is then drawn from the storage tanks by pumps that transfer it into the pressurized distribution system.

At the Milton Oaks source, water is pumped, under system pressure, from two wells through a 3,000-gallon contact tank that is connected directly to the distribution system. As with Deer Run, the water is disinfected with sodium hypochlorite as it is pumped through the tank.

Our third water source, Kayaderosseras Estates, which consist of 2 wells that are pumped, under system pressure through a green sand II filtration system. This green sand II filtration system greatly reduces, almost eliminates the iron and manganese. Prior to the green sand filtration system, the water is disinfected with sodium hypochlorite then to a 3020-gallon contact tank that is connected directly to our system.

The New York State Department of Health completed a source water assessment for the Heritage Springs supplies based on available information. 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 well supplies. The susceptibility rating is an estimate of the potential for contamination of a given water source; it does not mean that the water delivered to consumers is or will become contaminated. A list of the contaminants detected, if any, are listed in the section entitled "Are there contaminants in our drinking water?" The source water assessments provide resource managers with information for protecting source waters into the future.

The source water assessment has rated our water source as having an elevated susceptibility to nitrate and herbicide/pesticide contamination. This rating is due primarily to the residential land use and associated activities in the assessment area. Public notification is required if regulated contaminants are ever found in our water.

The State Health Department will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning, and educational programs. A copy of the assessment can be obtained by contacting us as noted in the "Introduction" section of this document.

## **FACTS AND FIGURES**

Our water system currently serves approximately 3200 people (based on census data) through 1580 service connections. Our service territory includes several residential subdivisions, apartment buildings, a mobile home park, municipal facilities, and businesses.

The residential subdivisions we serve: Deer Run, Coachman Estates, Milton Heights, Milton Oaks, Geysers Gate, Kayaderosseras Estates, Creek View Court, Oak Hill, and Wyndham Way. Other residential facilities served are: three senior citizen apartment buildings, the Saratoga West mobile home park, the Saratoga Acres mobile home trailer park, the Knollwood Hollow senior condominiums, Lancaster Place condominiums, Linden Lane condominiums, Carlton Hollow Senior apartments and the Saratoga Winners Circle apartments. Non-residential facilities served include the Milton Senior's Community Center, the Town of Milton Town Hall and Highway Garage, Burgess Kimball Park, Geysers Gate pavilion, Milton Eagles Fire House, and several businesses on Rowland Street and Geysers Road.

## **ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform bacteria, inorganic compounds, antimony, arsenic, beryllium, cadmium, chromium, mercury, selenium, thallium, nitrate, nitrite, lead and copper, volatile organic compounds, disinfection byproducts, radiological compounds, and synthetic organic compounds. The table presented below depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

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 indicate that water poses 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 New York State Department of Health, Glens Falls Regional Office at (518) 793-3893.

## **IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATION?**

During 2022, Heritage Springs Water was in compliance with all applicable State drinking water operating, monitoring and reporting requirements.

**HERITAGE SPRINGS WATER WORKS - TABLE OF DETECTED CONTAMINANTS**

<b>Contaminant</b>	<b>Violati on Yes/No</b>	<b>Date of Sample</b>	<b>Level Detected (Avg/Max) (Range)</b>	<b>Unit Measure- ment</b>	<b>MCLG</b>	<b>Regulatory Limit (MCL, TT or AL)</b>	<b>Likely Source of Contamination</b>
<b>Inorganic Contaminants:</b>							
Barium	No	11/23/20 11/23/20 12/13/17	0.16 @ DR 0.058 @ MO 0.1 @ KE	mg/L	2	MCL=2.0	Discharge of drilling wastes; Discharge from metal refineries; erosion of natural deposits.
Copper	No	9/27-28 2020	0.227 <sup>1</sup> (0.0163 to 0.694) <sup>2</sup>	mg/L	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Chloride	No	11/7/22 11/7/22 11/7/22	190@ DR 190 @ MO 140 @ KE	mg/L	N/A	MCL 250	Naturally occurring; Indicative of road salt contamination; disinfection by product
Fluoride	No	11/23/20 11/23/20 12/2/20	0.0817@DR 0.116 @ MO 0.0531 @ KE	mg/L	N/A	MCL 2.2	Erosion of natural deposits.
Lead	No	9/27-28 2020	0.003 <sup>1</sup> (ND-.0547) <sup>2</sup>	mg/L	0.015	AL=15	Corrosion of household plumbing systems; erosion of natural deposits;
Iron	No	11/7/22 11/7/22	160 @ MO 86 @ KE	ug/L	N/A	MCL=300	Naturally occurring.
Manganese	No	11/7/22 11/7/22	10 @ DR 13 @ MO	ug/L	N/A	MCL= 300	Naturally occurring
Nickel	No	11/23/20 11/23/20 12/2/20	.0012@ DR .001 @ MO 0.0022 @ KE	mg/L	N/A	N/A	Erosion of natural deposits
Odor	No	11/7/22 11/7/22 11/7/22	1 TON @ DR 1 TON @ MO 1 TON @ KE	TON	N/A	MCL=3	Organic or inorganic pollutants originating from municipal and industrial waste discharges; natural sources.
Sulfate	No	11/7/22 12/8/21 12/8/21	32 @ DR 13 @ MO 24 @ KE	mg/L	N/A	MCL 250	Erosion of natural deposits
Sodium <sup>4</sup>	No	11/7/22 11/7/22 11/7/22	81 @ DR 44 @ MO 37 @ KE	mg/L	N/A	Note 4	Naturally occurring; road salt; water softeners; animal waste
Color (Apparent)	No	11/7/22 11/7/22 11/7/22	10 @ DR 10 @ MO 10 @KE	Color Units	N/A	MCL = 15	Large quantities of organic chemicals, inadequate treatment, high disinfectant demand and the potential for production of excess amounts of disinfectant byproducts such as trihalomethanes, the presence of metals such as copper, iron and manganese; Natural color may be caused by decaying leaves, plants, and soil organic matter.
Zinc		11/7/22	0.025	Mg/l	N/A	MCL=5 Mg/l	Naturally occurring; Mining waste.
<b>Disinfection By- products:</b>							
Trihalomethanes (THM's)	No	8/18/22	3.1 @ 14 Berkshire Dr 28.0 @ 712 Rock City Road	ug/L	N/A	MCL=80	By-product of drinking water disinfection at treatment plants using hypochlorite solutions.
Haloacetic Acids (HAA5s)	No	8/26/21	< 2@ 14 Berkshire Dr 15.2 @712 Rock City Rd	ug/L	N/A	MCL=60	By-product of drinking water disinfection at treatment plants using hypochlorite solutions.

<b>Radiological Contaminants:</b>							
Gross Alpha	No	11/7/22	6.23 @ Deer run	pCi/L	0	MCL=15	Erosion of natural deposits.
	No	11/23/20	1.80 @ MO				
Combined Radium 226 and 228	No	12/15/20	.145 @ KE	pCi/L	0	MCL=5	Erosion of natural deposits.
<b>Volatile Organic Contaminants:</b>							
Toluene	No	11/7/22 11/22/22	0.58 @ DR 0.64 @ MO	Ug/l	0	MCL=5	Leaks from gasoline tanks, Discharge from petroleum factories. Leaching of solvent from lining of potable water tanks.
Chloromethane	No	11/22/22	.91 @ KE (Well #2 raw)	Ug/l	0	MCL=5	Used in organic chemistry; used as an extractant for greases, oils, and resins; as a solvent in the rubber industry; as a refrigerant, blowing agent and propellant in polystyrene foam production; as an anesthetic; as an intermediate in drug manufacturing; as a food additive, a fumigant and a fire extinguisher.
<b>Synthetic Organic Contaminants:</b>							
Perfluorooctanoic Acid (PFOA)	No	11/22/22	0.51 @ DR 0.47 @ MO 0.44 @ KE	Ng/l	0.0	MCL=10 Ng/l	Released into the environment from widespread use in commercial and industrial applications.

**Notes:**

1 – The level presented represents the 90<sup>th</sup> percentile of the 10 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 90<sup>th</sup> percentile is equal to or greater than 90% of the values detected. Ten samples were collected at your water system and the 90<sup>th</sup> percentile value was the second highest value. The action levels for copper and lead were not exceeded at any of the sites tested.

2 – The levels presented represent the range of the 10 samples collected.

3 – This level represents the annual quarterly average calculated from data collected.

4 - 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.

**Definitions:**

**DR:** Deer Run water source (#01), production well No.'s 1, 2, 3.

**MO:** Milton Oaks water source (#02), production wells No.'s 1 and 2.

**KE:** Kayaderosserass Estates water source (#03), production well No. 1 and redundancy backup well #2

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**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.

**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.

**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.

**Milligrams per liter (mg/l):** Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm). **1/1,000,000**

**Micrograms per liter (ug/l):** Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb). **1/1,000,000,000**

**Nanograms per liter (ng/l)** Corresponds to one part of liquid to one trillion parts of liquid (parts per trillion-ppt) **1/1,000,000,000,000**

**NA:** Not applicable

**ND:** Not detected

**NELAP:** National Environmental Laboratory Approval Program.

**Picocuries per liter (pCi/L):** A measure of the radioactivity in water

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**USEPA:** United States Environmental Protection Agency.

**WTP:** Water treatment plant.

## **INFORMATION ON PERFLUORONATED CONTAMINANTS INCLUDING PFOA & PFOS**

In 2021 a new sampling requirement for PFOA's, PFOS's and 1,4 Dioxane was put into effect for NYSDOH. Heritage Springs Water Works followed all testing guidelines provided by NYSDOH. Those results are provided in the prior chart.

These tests have shown that PFOA have been detected in our systems water. However, the levels are below the NYSDOH MCL. PFOA and PFOS are released into environment by a wide spread of chemical and commercial uses, as well as products used in our homes.

PFOA's and PFOS's in drinking water caused a range of health effects when studied in animals at high exposure levels. The most consistent findings were effects on the liver and immune system and impaired fetal growth and development. Studies of high-level exposures to PFOA in people provide evidence that some of the health effects seen in animals may also occur in humans. The United States Environmental Protection Agency considers PFOA as having suggestive evidence for causing cancer based on studies of lifetime exposure to high levels of PFOA in animals.

EPA health advisory levels provide a margin of protection against adverse health effects from a lifetime of exposure to PFOS and PFOA from drinking water. The difference between the advisory level and the level that might cause health effects is called the "margin of protection." The margin of protection includes the most sensitive populations: fetuses during pregnancy and breastfed infants. Health advisory levels are set at much lower levels than those that might cause health effects in individuals.

In July of 2019 New York State set the limit for PFOA and PFOS at 10 ng/l.

## **INFORMATION ON LEAD**

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. Heritage Springs Water Works is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact us using the information in the "Introduction" section of this document. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

## **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).

**For more information on Federal and State water quality standards as well as new regulations please go to <https://www.epa.gov/wqs-tech>**

## **WHY SAVE WATER AND HOW TO AVOID WASTING IT?**

Although our system has an adequate amount of water to meet present and future demands, there are a number of reasons why it is important to conserve water:

- ◆ Saving water saves energy and some of the costs associated with both of these necessities of life;
- ◆ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- ◆ Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential firefighting needs are met.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- ◆ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So get a run for your money and load it to capacity.
- ◆ Turn off the tap when brushing your teeth.
- ◆ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- ◆ Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you save more than 30,000 gallons a year.
- ◆ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes, if it moved, you have a leak.

## **CLOSING**

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office at (518) 371-7942 if you have questions. Or email us at [info@heritage-springs.com](mailto:info@heritage-springs.com),

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