Annual Drinking Water Quality Report for 2021 BeaverValleyWaterDistrict PublicWaterSupplyID#NY0701007

To comply with State regulations, Beaver Valley Water District annually issues a report describing thequality of your drinking water. The purpose of this report is to raise your understanding of drinking waterand awareness of the need to protect our drinking water sources. This report provides an overview of lastyear'swaterquality. Includedaredetailsaboutwhereyour watercomesfrom.whatitcontains.andhowitcomparesto Statestandards.

If you have any questions about this report or concerning your drinking water, you may contact LaVernePhelps, Catlin Town Supervisor at (607) 739-6658 or the Chemung County Health Department at (607) 737-2019. Youare always welcome to attend meetings of our Town Board, which meets the second Thursday of each month.

Wheredoesourwatercomefrom?

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 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 radioactivecontaminants. Inorder to ensure that the amount of certain contaminants in water provided by public water systems. The StateHealth Department and the FDA's regulations establish limits for contaminants in bottled water whichmustprovide thesame protection for publichealth.

Our water source is groundwater supplied from two 55-foot-deep wells. The water is disinfected withchlorine prior to distribution to your home and our reservoir. We also feed polyphosphate to "tie up" dissolved iron and manganese at the wellhead, before it can react with chlorine to discolor the water. We also flush our water mains on a regular basis to prevent buildup of mineral sediments. If you have problems with cloudywater, please inform the water department by calling our office at 739-5598, extension 5.

Our system was built in 1953.We completed well upgrades in 2013, and installed a new reservoir in 2014.The work brings us up to standards currently required by New York State.Our water system serves about365 people through 155 service connections.During 2021, our system supplied sufficient water to meetourneeds.

SourceWaterAssessment:

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 assessmentincludes a susceptibility rating based on the risk posed by each potential source of contamination and howeasilycontaminants canmove through thesubsurfaceto the well.Thesusceptibilityrating an estimateofthepotential forcontamination of thesource water, itdoes notmean that waterdelivered to consumers is, or will become contaminated. See section "Are there contaminants in our drinking water?" for a list

is, or will become contaminated. See section "Are there contaminants in our drinking water?" for a list ofthe contaminants that have been detected. The source water assessments provide resource managers withadditionalinformation forprotectingsourcewaters into the future.

Asmentionedbefore,ourwaterisderivedfrom onedrilledwell. Thesource waterassessment hasratedthiswell as having a medium-high susceptibility to microbials, nitrates, industrial solvents, and other industrial contaminants. While no significant sources of contamination have been identified in the assessment area, the well draws from an unconfined aquifer with unknown high hydraulic conductivity. Please note that, while the source water assessment rates our well as being susceptible to

microbials, our water is disinfected to ensure that that the finished water delivered into your home meets the New York State drinking water

standardsfor microbial contamination.

County and state health departments will use this information to direct future source water protectionactivities. These may include water quality monitoring, resource management, planning, and educationprograms. A copy of the assessment, including a map of the assessment area, can be obtained by contactingus.

Aretherecontaminantsin ourdrinkingwater?

As the State regulations require, we routinely test your drinking water for numerous contaminants. Thesecontaminants include: total coliform, turbidity, inorganic compounds, natural radioactivity, nitrate, nitrite,lead and copper, volatile organic compounds, total trihalomethanes, and synthetic organic compounds. Thetablepresented below shows which compoundsweredetected inyour drinkingwater. Itshould benotedthat all drinking water, including bottled drinking water, might be reasonably expected to contain at leastsmallamounts of some contaminants. The presence of contaminants does not

necessarilyindicatethatwaterposes a health risk.More information about contaminants and potential health effects can be obtained bycalling the EPA's Safe Drinking Water Hotline (800-426-4791) or the Chemung County Health Departmentat737-2019.

TheStateallows ustotest forsomecontaminants less than oncepery earbecause the concentrations of these contaminants do not change frequently.

Contaminant	Violation Y/N	DateSa mpled	LevelD etected	Unit ofMeasure	MCLG	MCL	Likely Source ofContamination
Barium	N	05/2021	0.51	mg/L	2	2	Naturallyoccurring
Chlorine residual	N	Monthly	Average0.5 Range0.07 –1.15	mg/L	MRDLG 4	MRDL 4	Disinfectant necessarytocontrolmicr obes
Copper 10 Samples Note1	N	07/2019	90 th %=0.4 range: 0.02to2.1	mg/L	1.3	AL 1.3	Corrosion ofhousehold plumbingandfixtures
Lead 10 Samples Note1	N	07/2019	90 th %=1.3 range:ND to658	ug/L	0	AL15	Corrosion ofhousehold plumbingandfixtures
Lead after treatment at wellhouse	N	05/2021	1.0	ug/L	N/A	TT=5 Note 5	Corrosion of well piping and fittings
Iron	N	10/2019	460	ug/L	N/A	300 Note3	Naturallyoccurring
Manganese	N	10/2019	318 Note2	ug/L	N/A	300 Note3	Naturallyoccurring
Nitrate	N	08/2020	0.1	mg/L	10	10	Runofffromfertilizeruse; Leaching from septictanks
Sodium	N	10/2019	30	mg/L	N/A	Note4	Naturally occurring;Roadsalt
Total Halo- aceticacids	N	08/2020	3.0	ug/L	N/A	60	By-product of drinkingwaterchlorinati on

ContaminantsDetectedin2021(ormostrecenttest)

Total Trihalo-	Ν	08/2020	47	ug/L	N/A	80	By-product of drinkingwaterchlorinati
methanes							on

Note1:	The90 th percentilemeans 90% of all results were less than or equal to the value given. Tensamples were collected at homes throughout the system. A singles ample exceeded the
	State's Action Level (AL) for both copper and lead. The very unusual sample lead was morethan 40 times the action level. Because 90% of our samples were very low, no further actionwas required. However, we resampled the home with extreme results soon after we received the reports. Levels were very low for both lead and copper in the second test. The HealthDepartment told us the likely source of the extreme results was that a tiny bit of corrosionscale got into the sample. Scale from brass fixtures and soldered joints is composed largely of lead and copper and is not uncommon. That is one reason all faucets come with screens, andan excellent reason to clean your screen and aerator often. For more information, read theLeadEducational Noticeon page4.
Note2:	Manganese is an essential nutrient and is not harmful to most people even at levels near theMaximum Contaminant Level.However, too much Manganese can harm a baby'sdevelopment.Becausebabyformulaalreadyincludesthe correctamountofmanganese, ourwater could add more manganese than is healthy.To be on the safe side, prepare babyformulawith other municipal wateror bottled water certifiedbythe StateofNew York.
Note3:	The MCL for both iron and manganese is set at 300 ug/L due to staining and discolorationproblems. The sum of the two should not exceed 500 ug/L.Because there are no healtheffects (except for baby formula, above) the State permits us to operate with slightly higherlevels because of the expense of removing iron and manganese. As stated earlier, we alsoaddpolyphosphate to minimizestaining.
Note4:	No MCL; water containing more than 20 mg/l of sodium should not be used for drinking bypeople on severely restricted sodium diets. Water containing more than 270 mg/l of sodiumshould not be used fordrinkingbypeopleon moderatelyrestricted sodiumdiets.

Note 5: This lead result was measured in water leaving our treatment building.

Definitionsusedinthetable:

<u>Maximum Contaminant Level</u>(MCL): The highest level of a contaminant that is allowed in drinking water.MCLsaresetas close to the MCLGs as feasible.

<u>Maximum Contaminant Level Goal</u> (MCLG): The level of a contaminant in drinking water below which there isnoknown or expected risktohealth.MCLGs allowfora margin of safety.

<u>Maximum Residual Disinfectant Level</u> (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.

<u>Maximum Residual Disinfectant Level Goal</u> (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 disinfectant stocontrol microbial contamination.

<u>ActionLevel</u>(AL): The concentration of a contaminant, which, if exceeded, triggerstreatment, or other requirements that a water systemmus tfollow.

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

<u>Milligrams per liter</u> (mg/L): Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Microgramsperliter(ug/L):Correspondstoonepartofliquidinonebillionpartsofliquid(partsperbillion -ppb).

 $\label{eq:notDetected} \underbrace{ND}: The laboratory tested for the contaminant but did not find a measurable amount. \\ \underline{NotApplicable}(N/A)$

Whatdoesthisinformationmean?

As you can see by the table, our system met water quality standards during 2020. We have learned through ourtesting that some contaminants have been detected; however, these contaminants were measured below the levelallowedbythe State.

Isoursystemmeetingotherrulesthatgovernoperations?

In2021, oursystem followed all applicable drinking water regulations.

DoINeedtoTakeSpecialPrecautions?

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than thegeneral population.Immuno-compromised persons such as persons with cancer undergoing chemotherapy, personswho have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, andinfants can be particularly at risk from infections.These people should seek advice from their health care providerabout their drinking water.EPA/CDC guidelines on appropriate means to lessen the risk of infection byCryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

Lead Educational Notice: If present, elevated levels of lead can cause serious health problems, especially forpregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Beaver Valley Water District 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 forseveral hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutesbefore using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have yourwater tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure isavailablefromtheSafe DrinkingWater Hotlineorat http://www.epa.gov/safewater/lead.

How canIhelpsavewater?

Saving water lessens the strain on the water system during a dry spell or drought. You can play a role in conservingwater by becoming conscious of the amount of water your household is using, and by looking for ways to use lesswhenever you can. One of the easiest things to check is your toilets. Check for leaks by putting a few drops of foodcoloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose upto 100 gallons a day from one of these otherwise invisible toilet leaks. Fix it and you can save more than 30,000 gallonsa year.

Closing

Thankyouforallowingustocontinuetoprovideyourfamilywithqualitydrinkingwaterthisyear.Weaskthat allourcustomershelp us protect our watersource, which is heart of our community.

Sincerely,

LaVerne Phelps Town of Catlin Supervisor