The NYS DOH has completed a source water assessment for this system, based on available information. Possible end use threats to the 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, called the well susceptibility. The susceptibility rating is an estimate of the potential for contamination of the source water. It does not mean that the water delivered to your home will necessarily indicate that the water poses a health risk.

Are there contaminants in our drinking water? for a list of contaminants that have been detected. While nitrate and other inorganic contaminants were detected in our drinking water, it should be noted that all drinking water, including bottled drinking water, may be naturally expected to contain at least small amounts of some contaminants from natural sources. The presence of contaminants does not necessarily indicate that the water poses a health risk.

Potential contaminant sources are then evaluated and given a contaminant prevalence rating. The source water assessment has listed the Vestal water system wells as having a low to medium-high susceptibility to microbials, such as enteric bacteria and enteric viruses, and a low to very high susceptibility to various chemical contaminants as noted in the table below. The significant sources of some types of contamination may not have been identified in the assessment area; therefore, the wells rate a high susceptibility rating for other chemicals because of high well sensitivities.

While the source water assessment rates our wells as being low to moderately susceptible to microbials, please note that our water supply because customers who are well informed are committed to providing you with this information about your drinking water. The Vestal Town Water Department performs drinking water tests to ensure that the finished water delivered into your home meets New York State’s drinking water standards for microbial contamination. The Town of Vestal currently has an active wellhead protection and watershed protection plan in place to ensure drinking water safety and the source water assessment is another tool that can help direct further refinements to the plan. County and state health departments will also use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning, and education programs.

CONTINUING OUR COMMITMENT
Once again we proudly present our annual water quality report. Analysis of all finished water testing completed from January through December 2016. We are pleased to tell you that our compliance with all state and federal drinking water laws continues. As in the past, we are committed to delivering the best quality drinking water. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, and community education while continuing to serve the needs of all of our water users.

WORKING HARD FOR YOU
US Environmental Protection Agency USEPA, the U.S. Environmental Protection Agency (USEPA) is responsible for setting national limits for hundreds of substances in drinking water and also specifies various treatments that water systems must use to remove these substances. Each system continually monitors for these substances and reports to the USEPA if they were detected in the drinking water. USEPA uses these data to establish treatment standards for individual contaminants. The publication conforms to the regulations under 1205 and other source water assessment regulations as noted in the table below. The table below shows the significant sources of some types of contaminants that end, we remain vigilant in meeting the challenges of source water protection, water conservation, and community education while continuing to serve the needs of all of our water users.

WHERE DOES MY WATER COME FROM?
The Town of Vestal Water System is supplied from 6 groundwater wells situated along the south bank of the Susquehanna River. Water is withdrawn from depths of 100 feet to 200 feet and provides quality drinking water for our consumers. Our wells have a total daily production capacity of around 6 million gallons per day. Currently, our daily demand averages 2.1 million gallons per day. A seventh well (Well 1-A) is currently operated by the U.S. Environmental Protection Agency and is available as an emergency backup. In addition to the well supply, the Town has an agreement and connection with the City of Binghamton to supplement our daily needs in eastern Vestal. The agreement provides for an additional 3 million gallons per day if needed. The water supplemented from Binghamton extends from Binghamton University Campus west to the Vestal Parkway. A similar connection also exists with the Village of Johnson City in the event of an emergency.

COMMUNITY PARTICIPATION
You are invited to participate in our public forum and voice your concerns about your drinking water. The Vestal Town Board meets the 2nd and 4th Wednesday of each month beginning at 7:00 p.m. at the Vestal Town Hall, located at 605 Vestal Parkway West, Vestal, NY.

AWQR SOURCE WATER ASSESSMENT SUMMARY
The NYS DOH has completed a source water assessment for this system, based on available information. Possible end use threats to the 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, called the well susceptibility. The susceptibility rating is an estimate of the potential for contamination of the source water. It does not mean that the water delivered to your home will necessarily indicate that the water poses a health risk.
SAMPLING RESULTS

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<th>Location</th>
<th>Type</th>
<th>Well 1</th>
<th>Well 2</th>
<th>Well 3</th>
<th>Well 4</th>
<th>Well 5</th>
<th>Well 6</th>
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<tbody>
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<tr>
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</tbody>
</table>

**SUBSTANCES THAT MIGHT BE IN YOUR DRINKING WATER**

In general, the sources of drinking water (both tap water and bottled water) include 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 inorganic contaminants, such as natural radioactive elements, and synthetic organic compounds; inorganic pesticides and herbicides; organic contaminants; and by-products formed during the treatment process. Some contaminants of concern are naturally occurring substances, such as radon. Others are the result of the application of chemicals to crops or pastures, or from industrial processes.

**PCBs**

Poly chlorinated biphenyls (PCBs) are a group of about 200 related chemicals that are formed when certain chemicals are burned or made by Chance in the manufacture of other products. The use of PCBs has been banned in the United States since 1977, but older products and materials still contain them. PCBs are toxic. Some studies in animals have shown that PCBs can cause reproductive problems, birth defects, immune system disorders, and cancer.

The U.S. EPA has set a health-based, single  values for each of the 209 PCB congeners (identifiable types). The levels are the same for all methods of consumption (drinking water, fish, and other)

**TRI**

The Toxic Release Inventory (TRI) contains data on the amount of a list of chemicals released or transported by businesses. EPA conducts TRI to promote the release of information about the disposal and transportation of hazardous substances by industry. The TRI is a law that requires certain large industrial facilities to prepare and report information about toxic chemicals that they release to the environment. The TRI database provides information on facilities that release or transport toxic chemicals and on the toxic chemicals they release or transport. The database is available to the public.

**WATER CONSERVATION TIPS**

1. Fix leaks. At least 10% of water use is due to leaks. A typical kitchen sink leaks at a rate of 2 gallons per minute. Fixing a 0.05 gpm leak will save 730 gallons per year.
2. Shorter showers.九天 nine years eight months
3. Use water-saving appliances. Many appliances use less water and energy today than they did ten years ago. For example, a water-saving clothes washer can cut water use by more than 60%.
4. Reduce your lawn’s water needs. Use native plants, which require less water than non-native species.
5. Use a water-efficient toilet. Water-efficient toilets use 1.6 gallons or less per flush. 

**FACTS AND FIGURES**

Our water system serves 22,200 people through 1,200 service connections. During 2016, we used 70.7 million gallons (total). The total water purchased from the City of Binghamton was rated at 87.5 million gallons for the use of water treated and distributed by our system. The amount of water directed to the customer was nearly 62.3 billion gallons. This leaves an unaccounted for of 17.6 million gallons (11%). This water served municipal purposes such as flushing mains, fire flows, and drinking uses. In 2016, our system charged a minimum of $5.00 for the first 1,000 gallons and $2.12 per hundred gallons of water after that.

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**TOURNAMENT OF VESTAL NY001674 ANNUAL WATER QUALITY REPORT**