

2016_____ **ANNUAL DRINKING WATER QUALITY REPORT**

PWSID #: 6370035_____ **NAME:** New Wilmington Municipal Authority_____

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

WATER SYSTEM INFORMATION:

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact the New Wilmington Borough Office located_____ at 134 High St between the hours of 8 AM and 4 PM Monday through Friday or at 724-946-8167_____. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the 3rd Monday of each month at 7 PM at the New Wilmington Borough Office_____.

SOURCE(S) OF WATER:

Our water source(s) is/are: (Name-Type-Location)

The Shenango River and we purchase our water from Aqua Pennsylvania, Inc. of Sharon, PA.

A Source Water Assessment of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our source(s) of is/are potentially most susceptible to [insert potential Sources of Contamination listed in your Source Water Assessment Summary]. Overall, our source(s) has/have [little, moderate, high] risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Reports eLibrary web page: www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045. Complete reports were distributed to municipalities, water supplier, local planning agencies and PADEP offices. Copies of the complete report are available for review at the Pa. DEP Northwest

Regional Office, Records Management Unit at (814) 332-6899.

Some people may be more vulnerable to contaminants 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 about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the *Safe Drinking Water Hotline* (800-426-4791).

MONITORING YOUR WATER:

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2016. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

DEFINITIONS:

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 using the best available treatment technology.

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 contaminants.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

Level 1 Assessment – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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

Mrem/year = millirems per year (a measure of radiation absorbed by the body)

pCi/L = picocuries per liter (a measure of radioactivity)

ppb = parts per billion, or micrograms per liter (µg/L)

ppm = parts per million, or milligrams per liter (mg/L)

ppq = parts per quadrillion, or picograms per liter

ppt = parts per trillion, or nanograms per liter

Contaminants	Level Found	Range of Detections	MCL	MCLG	Sample Date	Violation Y/N	Major Source in Drinking Water	
Total Chlorine, ppm	2.0	0.4 – 2.0	MRDL = 4	MRDLG = 4	2016	N	Water additive used to control microbes	
Contaminant	Range of Removal Required	Range of Percent Removal Achieved	Number of Quarters of out of Compliance	Number of Quarters of out of Compliance	Sample Date	Violation Y/N	Sources of Contamination	
Haloacetic acids, ppb	30.7	4.1 – 57.1	60	NA	2016	N	Byproduct of drinking water chlorination	
Total Trihalomethanes, ppb	49.9	23.0 – 82.1	80	NA	2016	N	Byproduct of drinking water chlorination	
Disinfection Byproducts – For Haloacetic Acids and Total Trihalomethanes, the Level Found is the highest annual average of the quarterly averages. Compliance is based on a running annual average of quarterly results, not a single sample. The Range of Results lists the highest and lowest values among all individual samples.								
Lead and Copper	90 th Percentile	Total Number of Samples	Samples Exceeding Action Level	Action Level	MCLG	Sample Date	Violation Y/N	Major Sources in Drinking Water
Copper, ppm	0.14	20	0	AL = 1.3	1.3	2016	N	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead, ppb	2.2	20	0	AL = 15	0	2016	N	Corrosion of household plumbing systems; Erosion of natural deposits

The test results listed above are samples that were taken directly from water sources in New Wilmington Borough.

Contaminants	Level Found	Range of Detections	MCL		MCLG	Sample Date	Violation Y/N	Major Sources in Drinking Water
Turbidity, % meeting plant performance level	100.0%	100.0 – 100.0%	TT		NA	2016	N	Soil Runoff
Turbidity, NTU	0.24	0.03 – 0.24	TT		NA	2016	N	Soil Runoff
Total Organic Carbon (TOC)								
Contaminant	Range of Removal Required	Range of Percent Removal Achieved	Number of Quarters out of Compliance		Sample Date	Violation Y/N	Sources of Contamination	
TOC	.5 – 45	27.3 – 41.2	0		2016	N	Naturally present in the environment	
Inorganic Compounds								
Arsenic, ppb	1.1	NA	10	0	2016	N	Erosion from natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes	
Barium, ppm	0.017	NA	2	2	2016	N	Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits	
Chromium, ppb	2.1	NA	100	100	2016	N	Discharge from steel and pulp mills; Erosion of natural deposits	
Fluoride, ppm	0.84	NA	2	2	2016	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	

Contaminant	Range of Removal Required	Range of Percent Removal Achieved	Number of Quarters out of Compliance		Sample Date	Violation Y/N	Sources of Contamination
Chlorite, ppm (distribution system)	0.26	ND – 0.58	1	0.8	2016	N	Byproduct of drinking water chlorination
Chlorite, ppm (entry point)	0.31	ND – 0.99	1	0.8	2016	N	Byproduct of drinking water chlorination
Chlorine Dioxide, ppm (entry point)	0.36	ND – 1.48	MRDL = 0.8	MRDLG = 0.8	2016	N	Water additive used to control microbes
Entry Point Disinfectant Residual							
Contaminants	Minimum Level Found	Minimum Disinfectant Residual	Range of Detection		Sample Date	Violation Y/N	Major Sources in Drinking Water
Total Chlorine, ppm	0.2	0.2	0.2 – 4.5		2016	N	Water additive used to control microbes

The test results listed on the two pages above are from samples taken from the water treatment plant in Sharon, PA.

Monitoring for *Cryptosporidium* (a naturally occurring microbial pathogen) was conducted under a **national program in 2009 on raw (untreated) water** samples from our source, the Shenango River. *Cryptosporidium* was detected in 3 of 24 raw water samples, with an average count of 0.027 per liter. These levels are in the lowest category of risk for raw (untreated) water. Our water treatment processes are designed to remove *Cryptosporidium*, but complete removal of all organisms at all times cannot be guaranteed. For this reason, immune-compromised individuals (people with weakened immune systems) are encouraged to consult their doctor regarding appropriate precautions to avoid infection.

DETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:N/A

OTHER VIOLATIONS:N/A

EDUCATIONAL INFORMATION:

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 activity. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be 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 Environmental Protection Agency's *Safe Drinking Water Hotline* (800-426-4791).

Information about 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. Aqua Pennsylvania, Inc _____ 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>.

OTHER INFORMATION:

N/A
