



WASHINGTON TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

• WASTEWATER TREATMENT • PUBLIC WATER SUPPLY •

Drinking Water Quality Report 2008 Report for Test Results from 2007

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water.

We are pleased to report that our drinking water is safe and meets federal and state requirements.

WHERE DOES MY WATER COME FROM?

The Washington Township MUA operates two separate water systems which supply water to portions of the township. The map illustrates the location of the water systems that are operated by the MUA. All of the water supplied to our customers currently come from a total of fourteen wells.

DEFINITIONS

In this report you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have provided the following definitions:

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 Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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

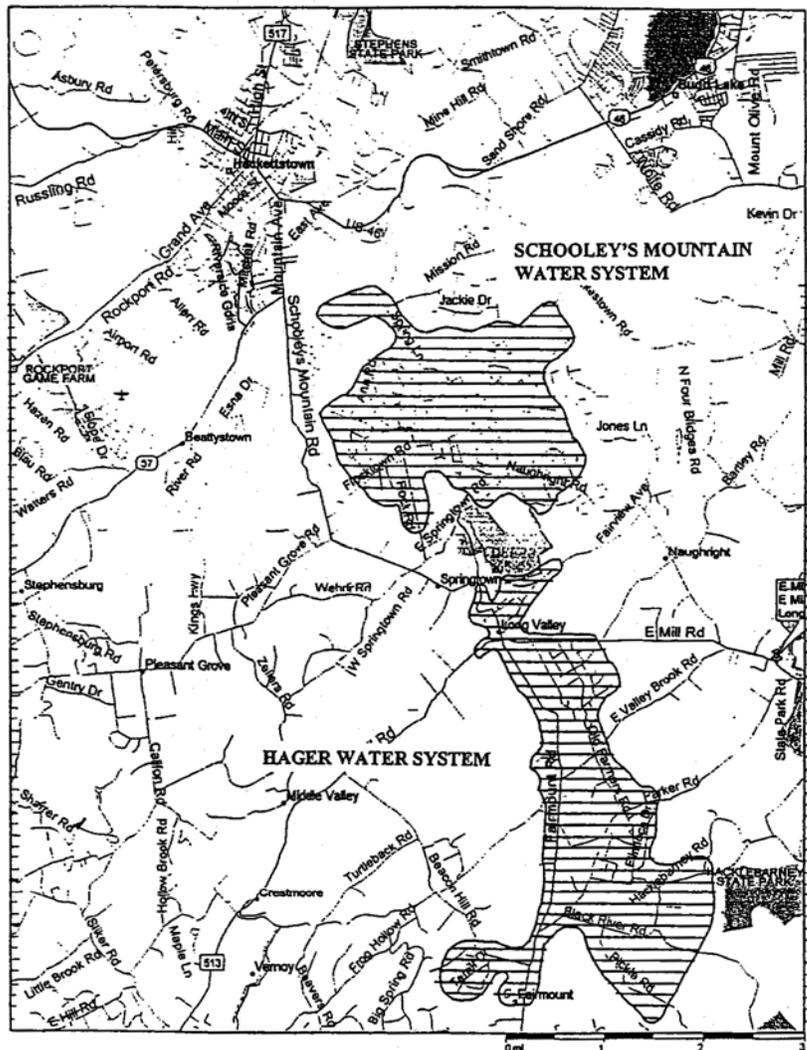
Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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

Maximum Contaminant 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.



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 seventy years to have a one-in-a-million chance of having the described health effect.

MONITORING OF THE WATER

The Washington Township MUA routinely monitors for constituents in your drinking water according to Federal and State laws. The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organic chemicals and synthetic organic chemicals. Our system received a monitoring waiver for asbestos.

SPECIAL CONSIDERATIONS

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

SUBSTANCES TO BE EXPECTED IN DRINKING WATER

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 storm water runoff, 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 storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can, also come from gas stations, urban storm water 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 prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration 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 the 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 at 1-800-426-4791.

ADDITIONAL TREATMENT

To ensure the continued quality of our water we treat it in several ways. All water sources are treated with chemicals to adjust the natural pH of the water and provide disinfection of the source water. We also treat the water supplied to a portion of the Schooley's Mountain water system with polyphosphate to sequester iron and manganese to prevent dirty water and staining of laundry.

RADON

In addition to monitoring for the constituents required by federal and state regulations, we monitored for radon in our source water supplies during 2000. We detected radon in the finished water supply at all but one of our source water supplies. The results are included in the Table of Non-Regulated Substances. There is no federal regulation for radon levels in drinking water. Of greater concern than the radon in the concentrations detected in the MUA's source water supplies is the radon detected in indoor air. Radon entering the home through tap water will in most cases be a small source of radon in indoor air. Exposure to air transmitted radon over a long period of time may cause adverse health effects. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. The Washington Township Health Department has radon test kit for purchase. You can contact them at 908-876-3650. For additional information, call the EPA's Radon Hotline (800-SOS-RADON) or NJDEP Radon Section (800-648-0394).

PROTECTION OF WATER SOURCES

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Reports and Summaries for these public water systems, which is available at www.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. You may also contact the MUA at (908) 876-3145 during business hours.

We at the Washington Township MUA work hard to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

QUESTIONS?

We want our valued customers to be informed about their water utility. If you have any questions about this report or concerning your water utility, please contact the MUA at 908-876-3145. If you want to learn more, please attend any of our regularly scheduled MUA meetings at 46 East Mill Road, Long Valley. Meetings are held on the first Wednesday of each month at 7:30 p.m.

WHAT'S IN MY WATER

This table shows the results of our monitoring for the period of January 1st to December 31st, 2007. **As you can see, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements.** We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water is safe at these levels.

REGULATED SUBSTANCES							
Substance (units)	MCL	MCLG	Schooley's MountainHager water systemwater system				Typical Source
			Amount Detected	Range Low-High	Amount Detected	Range Low-High	
Alpha emitters (pCi/L)	15	0	0.59	0.17-4.92	2.02	0.10-10	Erosion of natural deposits
Radium (pCi/L)	5	0	0.074	-0.17-.43	0.3	0.05-.83	Erosion of natural deposits
Barium (ppm)	2	2	0.012	.004-0.040	0.03	.013-0.058	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper (ppm)	1.3(AL)	1.3	90th percentile - .284	No samples exceeded the action level	90th percentile - .0184	No samples exceeded the action level	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppm)	15(AL)	0	90th percentile - .0021	No samples exceeded the action level	90th percentile - .0037	No samples exceeded the action level	Corrosion of household plumbing systems; erosion of natural deposits
Nitrate (ppm)	10	10	2.05	<0.5-5.86	1.7	0.68-3.51	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Mercury (ppb)	50	50	0.1	ND-.3	None	Detected	Discharge from refineries and factories; runoff from landfills; runoff from cropland; erosion of natural deposits
Selenium (ppm)	50	50	1.3	ND-2.5	1.6	ND-2.4	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Total trihalomethanes (TTHM) (ppb)	80	N/A	2.84	<0.40-6.36	None	Detected	By-product of drinking water chlorination
Chloroform (ppb)	N/A	N/A	1.15	<0.26-4.21	None	Detected	By-product of drinking water chlorination
Bromodichloromethane (ppb)	N/A	0	1.21	<0.31-3.97	None	Detected	By-product of drinking water chlorination
Dibromodichloromethane (ppb)	N/A	60	1.25	<0.31-2.95	None	Detected	By-product of drinking water chlorination
Bromoform (ppb)	N/A	0	0.45	<0.39-1.38	None	Detected	By-product of drinking water chlorination
Dibromochloromethane (ppb)	N/A	0	0.24	<0.30-.78	None	Detected	By-product of drinking water chlorination
NON-REGULATED SUBSTANCES							
Radon (pCi/L)	n/a	n/a	973	392-1728	900	ND-2320	Erosion of natural deposits
SECONDARY CONTAMINANTS							
Substance							Recommended Upper Limit
Iron (ppm)	n/a	n/a	0.194	ND-1.09	None	Detected	0.3
Manganese (ppm)	n/a	n/a	0.0148	ND-.063	None	Detected	0.05
Sodium (ppm)	n/a	n/a	33	9.0- 59.2	36.4	10.5- 53.2	50

Note: All results are from 2006 with the exception of Radon which is from 2000.

The recommended upper limit for iron is based on unpleasant taste of the water and staining of the laundry. Iron is an essential nutrient, but some people who drink water with iron well above the recommended upper limit could develop deposits of iron in a number of organs in the body.

The recommended upper limit for manganese is based on staining of laundry. Manganese is an essential nutrient, and toxicity is not expected from levels which would be encountered in drinking water.

For healthy individuals, the sodium intake from water is not important, because a much greater intake of sodium takes place from salt in the diet. However, sodium levels above the recommended upper limit may be of concern to individuals on sodium restricted diet.

PROTECTION OF WATER SOURCES

The New Jersey Department of Environmental Protection has completed and issued the Source Water Assessment Reports and Summaries for these public water systems, which are available at www.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. The source water assessment performed on our sources determined the following which is illustrated in the table below. This table shows the susceptibility ratings for the

seven contaminant categories (and radon) for each source in our systems. The table provides the number of wells that rated high (H), medium (M), or low(L) for each contaminant category. The seven contaminant categories are defined below the tables.

If a system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming contaminated drinking water. The rating reflects the potential for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels.

SCHOOLEY'S MOUNTAIN WATER SYSTEM																								
Sources	Pathogens			Nutrients			Pesticides			Organic			Inorganics			Radio-nuclides			Radon			Disinfection Byproduct Precursors		
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Wells - 10	1	1	6	6	1	1		3	5			8			8	1	6	1	7	1				8
GUDI - None																								
Surface water intakes -None																								

HAGAR WATER SYSTEM																								
Sources	Pathogens			Nutrients			Pesticides			Organic			Inorganics			Radio-nuclides			Radon			Disinfection Byproduct Precursors		
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Wells - 10	1	5		4	2			2	4			6			6	2	4		6			2	4	
GUDI -None																								
Surface water intakes - None																								

- Pathogens: Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecal wastes.
- Nutrients: Compounds, minerals and elements that aid growth, that are both naturally occurring and man-made. Examples include nitrogen and phosphorus.
- Volatile Organic Compounds: Man-made chemicals used as solvents, degreasers, and gasoline components. Examples include benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.
- Pesticides: Man-made chemicals used to control pests, weeds and fungus. Common sources include land application and manufacturing centers of pesticides. Examples include herbicides such as atrazine, and insecticides such as chlordane.
- Inorganics: Mineral-based compounds that are both naturally occurring and man-made. Examples include arsenic, asbestos, copper, lead, and nitrate.
- Radionuclides: Radioactive substances that are both naturally occurring and man-made. Examples include radium and uranium.
- Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment. For more information go to <http://www.nj.gov/dep/rop/radon/index.htm> or call (800) 648-0394.
- Disinfection Byproduct Precursors: A common source is naturally occurring organic matter in surface water. Disinfection byproducts are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (for example leaves) present in surface water.