2016 ANNUAL DRINKING WATER QUALITY REPORT

BOROUGH OF WEST READING PWSID# 3060078

If you have any questions concerning this report or require more information, please contact Borough Hall at 610-374-8273, Option 1.

2016 Annual Drinking Water Quality Report

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information to keep you informed.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda.

Source of 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, that 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 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 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.

Where Does Our Drinking Water Come From?

We purchase our water from Western Berks Water Authority. They draw water from the Tulpehocken Creek, just downstream from Blue Marsh Dam. The watershed comprises approximately 175 square miles of agricultural, wooded and suburban areas. The watershed extends north to the southern slope of the Blue Mountains beyond Strausstown and Shartlesville and west to the Myerstown area.

A *Source Water Assessment,* completed by the PA Department of Environmental Protection, has found that our source is potentially most susceptible to:

- 1. Nitrate and pesticide contamination from agricultural runoff.
- 2. Bacterial and chemical contamination from discharges of sewage treatment plants and industrial sources.
- 3. Contamination from roadway accidents and urban runoff.

The Western Berks Water Authority is concerned about protecting its water source. Current treatment processes ensure that raw water taken from the Tulpehocken Creek becomes finished water that meets all Federal and State drinking water standards. A copy of the Source Water Assessment Report is available for review by contacting the Authority at 610-678-4400.

Drinking Water May Contain Contaminants

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).

Do I need to take special precautions?

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)*.

How can I get involved?

We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. Our Infrastructure Committee convenes immediately following Traffic Committee meetings which are held at 6:00 p.m. on the second Wednesday of every month at Borough Hall.

2016 Test Results

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.

Chemical Contaminants								
	MCL in		Level	Range of		Sample	Violation	Sources of Contamination
Contaminant	CCR Units	MCLG	Detected	Detections	Units	Date	Y/N	
Chlorine	MRDL=4	MRDL=4	2.77	1.93 - 2.77	ppm	2016	N	Water additive used to control microbes.
Fluoride	2*	4	0.61	0.61	ppm	2016	N	Water additive which promotes strong teeth.
Nitrate	10	10	5.2	0 - 5.2	ppm	2016	N	Runoff from fertilizer use.
HAA5	60	NA	20.5	11.3 - 20.5	ppb	2016	N	By-product of drinking water disinfection.
TTHM	80	NA	24.6	10.3 – 24.6	ppb	2016	N	By-product of drinking water chlorination.
Barium	2	2	0.044	0.044		2016	N	Discharge of drilling wastes; Discharge from metal refineries;
Dariuiii	2	2	0.044	0.044	ppm	2016	IN IN	Erosion of natural deposits.
Chromium	100	100	1	1	ppb	2016	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Cyanide	200	200 200	11	11	ppb	2016	N	Discharge from steel/metal factories; Discharge from plastic and
	200							fertilizer factories.

^{*}EPA's MCL for fluoride is 4ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual									
	Minimum Disinfectant	Lowest Level	Range of		Sample	Violation	Sources of Contamination		
Contaminant	Residual	Detected	Detections	Units	Date	Y/N			
Chlorine	0.2	1.0	1.0 - 3.7	ppm	2016	N	Water additive used to control microbes.		

Lead and Copper										
	Action		90 th Percentile Value		# of Sites Above	Violation	Sources of Contamination			
Contaminant	Level (AL)	MCLG		Units	AL of Total Sites	Y/N				
Lead	15	0	0.004	ppb	0 out of 21 sites	N	Corrosion of Household Plumbing.			
Copper	1.3	1.3	0.667	ppb	0 out of 21 sites	N	Corrosion of Household Plumbing.			

^{*}Please see information about Lead and Copper testing on Page 4.

Microbial					医结合性 的复数医生物
Contaminants	MCL	MCLG	Highest# or % of Positive Samples	Violation Y/N	Sources of Contamination
Total Coliform Bacteria	For systems that collect <40 samples/month: • More than 1 positive monthly sample For systems that collect ≥40 samples/month: • 5% of monthly samples are positive		1	N	Naturally present in the environment.
Fecal Coliform Bacteria or <i>E. coli</i>	0	0	0	N	Human and animal fecal waste.

Turbidity						
Contaminant	MCL	MCLG	Level Detected	Sample Date	Violation Y/N	Sources of Contamination
T ala i alita .	TT=1 NTU for a single measurement		0.13	2016	N	Soil runoff.
Turbidity	TT= at least 95% of monthly samples ≤0.3 NTU	0	100%	2016	N	3011 1 011011.

Total Organic Carbon (TOC)								
Contaminant	Range of % Removal Required	Range of % Removal Achieved	Number of Quarters Out of Compliance	Violation Y/N	Sources of Contamination			
TOC	15% - 25%	26.5 – 48.5%	0	N	Naturally present in the environment.			

Definitions

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 pictograms per liter

ppt – Parts per trillion, or nanograms per liter

Mrem/year - Millirems per year (a measure of radiation absorbed by the body).



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 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 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.

More Definitions

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.

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.

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

Lead and Copper Testing

The testing for lead and copper is required to be completed every three years. This testing was completed in 2016 and the results are listed at the bottom of page 2 of this document.

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.

The Borough of West Reading 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.

