

2016 ANNUAL DRINKING WATER QUALITY REPORT

Springdale Township

PWSID #5020021

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, 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 Dawn Biery at (724) 274-4034. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on the 3rd Thursday of each month at 7:00 pm at the Township Building located at 100 Plate Drive.

SOURCE OF WATER:

Our water sources are purchased from Harmar Water Authority and Springdale Borough. These sources come from wells near the Allegheny River.

Source Water Assessments of our sources were completed in 2003 by the PA Department of Environmental Protection (PADEP). Complete reports were distributed to municipalities, water suppliers, local planning agencies and PADEP offices. Copies of the complete report are available for review at the PADEP Southwest Regional Office, Records Management Unit at (412) 442-4000.

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

Springdale Township routinely monitors 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 and sample site have been noted on the sampling results table.

DEFINITIONS AND ABBREVIATIONS:

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 – The minimum level of residual disinfectant required at the entry point to the distribution system

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 ($\mu\text{g/L}$)

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

DETECTED SAMPLE RESULTS

Chemical Contaminant	MCL in CCR units	MCLG	Highest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Fluoride* Springdale Borough Harmar Township	2	2	0.30 0.27	N/A N/A	(ppm)	5/5/15 8/11/15	N N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Manganese Springdale Borough	N/A	N/A	0.16	0-0.16	(ppm)	2016	N	Erosion of natural deposits.
Nitrate Springdale Borough Harmar Township	10	10	1.02 1.01	N/A N/A	(ppm)	7/5/16 9/6/16	N N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Thallium Harmar Township	2	0.5	1	N/A	(ppb)	8/11/15	N	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories.
Combined Radium Springdale Borough	5	0	1.4	N/A	(pCi/L)	9/2/2014	N	Erosion of natural deposits.
Uranium Harmar Township	30	0	2.4	N/A	(ppb)	7/14/15	N	Erosion of natural deposits.
Chlorine Springdale Township (Distribution)	MRDL=4	MRDLG=4	0.51 (Dec.)	0.22 - 0.51	(ppm)	2016 (monthly)	N	Water additive used to control microbes
HAA5 (Haloacetic Acids) Springdale Township	60	N/A	6.8	0 – 6.8	(ppb)	8/31/16	N	By-product of water chlorination
TTHMs (Total Trihalomethanes) Springdale Township	80	N/A	48.1	34.7 – 48.1	(ppb)	8/31/16	N	By-product of water chlorination

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

Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation of TT Y/N	Sources of Contamination
Lead (2013) Springdale Township	15	0	4.5	(ppb)	1 out of 12	N	Corrosion of household plumbing; Erosion of natural deposits
Copper (2013) Springdale Township	1.3	1.3	0.93	(ppm)	0 out of 12	N	Corrosion of household Plumbing; Erosion of natural deposits; Leaching from wood preservatives

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. Springdale Township Water Department 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>.”

VIOLATIONS

Halocetic Acids and Trihalomethanes were to be sampled for plus or minus 3 days of August 13, 2016. The samples were collected August 31, 2016. Also, in the third quarter of 2016, the Township was required to monitor for Lead and Copper. This testing was not completed due to an inability to identify Tier 1 Sample Sites. Testing will be done in June 2017. Public notification is included at the end of this report.

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:

1. Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
2. 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.
3. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
4. 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 storm water runoff, and septic systems.
5. 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).

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

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Monitoring Requirements Not Met for Monitoring of Halocetic Acids, Trihalomethanes, Lead and Copper

Our water system violated a drinking water standard. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. Halocetic Acids and Trihalomethanes were to be sampled for plus or minus 3 days of August 13, 2016. The samples were collected August 31, 2016. Also, in the third quarter of 2016, the Township was required to monitor for Lead and Copper. This testing was not completed due to an inability to identify Tier 1 Sample Sites. Testing will be done in June 2017.

What should I do?

There is nothing you need to do at this time.

The table below lists the contaminants we did not properly test for during the last year, how often we are supposed to sample for TTHM's, HAA5's, Lead & Copper and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples were taken.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When All Samples Should Have Been Taken	When Samples Were or Will be Taken
TTHM's	2 Locations Annually	1 at site #700/701	August 13, 2016 (+/- 3 days)	8/31/2016
HAA5's	2 Locations Annually	1 at site #700/701	August 13, 2016 (+/- 3 days)	8/31/2016
Lead & Copper	Annual	0 samples	June 1 – Sep. 30, 16	June 1 - Sep. 30, 17

What happened? What was done?

Halocetic Acids and Trihalomethanes were to be sampled for plus or minus 3 days of August 13, 2016. The samples were collected August 31, 2016. Also, in the third quarter of 2016, the Township was required to monitor for Lead and Copper. This testing was not completed due to an inability to identify Tier 1 Sample Sites.

For more information, please contact Dawn Biery at 724-274-4034.

Please share this information with all of the other people who drink this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies by hand or mail.