Annual Drinking Water Quality Report 2019

Bradys Bend Township Water System (PWSID 5030037)

Este informe contiene informacion muy importante sobre su agua de beber. Traduzcalo o 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.)

This report is designed to inform you about the quality water and services we deliver to you every day. Our goal is to provide you with a dependable supply of drinking water. Our water source up until September of 2019 was a groundwater source under the direct influence of surface water- a mine pool. DEP created a source water assessment plan for our system; copies of it are available upon request. We abandoned this source in September of 2019 due to high Turbidity levels and we now obtain your drinking water from the Petroleum Valley Regional Water Authority who purchases their water from the East Brady Borough Water System. East Brady Borough's source consists of three groundwater wells located in the vicinity of the old Rex-hide facility along the Allegheny River. The East Brady Borough Water System Entry Point sample results are noted in the table below.

We're pleased to report that our drinking water meets federal and state requirements. Bradys Bend Water System routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring from January 1st to December 31, 2019. The State allows us to monitor for some contaminants less frequently because we have not had problems with these contaminants in the past. Some data is from prior years, as noted in the table.

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, 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 byproducts of industrial process and petroleum production and mining.
- Radioactive contaminants, which can be naturally occurring or from oil/gas production and mining

In order to assure tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain contaminants in the 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.

"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. Brady's Bend Township Water System 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*."

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health risks can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800-426-4791.

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.

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

- *Parts per Billion (ppb)*- - one part per billion corresponds to one minute in 2,000 years, or a single penny in $10,000,000.
- *Parts per million (ppm)*- one part per million corresponds to one minute in two years or a single penny in $10,000.
- *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 "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water.
- *Maximum Contaminant Goal Level (MCGL)*- The level of a contaminant in drinking water below which there is no known or expected health risk.
- *Minimum Residual Disinfectant Level* – The minimum level of residual disinfectant required at the entry point to the distribution system
- *Picocuries or Micrograms per Liter (pci/L)* measure of radioactivity
- *MRDL*-Maximum Residual Disinfectant Level
- *MRDLG*-Maximum Residual Disinfectant Level Goal

DETECTED SAMPLE RESULTS

Chemical Contaminant	MCGL	MCL	Highest Level Detected	Units	Violation Y/N	Source of Contaminant
Chlorine Distribution (2019)	MRDLG = 4	MRDL = 4	1.64 (June) (Range-0.82-1.64)	ppm	No	Water additive used to control microbes
Trihalomethanes 2019	N/A	80	14.45 (4th Quarter*) (Range 7.57-23.60)	ppb	No	By-product of drinking water chlorination
Haloacetic Acids Five (HAA5) 2019	N/A	60	4.29 (3rd Quarter*) (Range 0-13.40)	ppb	No	By-product of drinking water disinfection
Mercury 8/10/18	2	2	0.50	ppb	No	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland
Nitrate (Bradys Bend) 2018	10	10	0.51 (Range-0.38-0.51)	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate (East Brady) 9/25/19	10	10	2.04	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Uranium 5/8/19	30	0	1.33	ppb	No	Erosion of natural deposits

***Indicates that these are the highest running annual averages calculated during 2019.**

Entry Point Disinfectant Residual							
Contaminant	**Minimum Disinfectant Residual**	**Lowest Level Detected**	**Range of Detections**	**Units**	**Lowest Sample Date**	**Violation Y/N**	**Source of Contamination**
Chlorine (2019) Bradys Bend	0.20	0.80	0.80-3.00	ppm	6/27/19	N	Water additive used to control microbes.
Chlorine (2019) East Brady	1.00	0 *	0-2.02	ppm	6/1/19	N	Water additive used to control microbes.

***Although this Lowest Level Detected is below the Minimum Disinfectant Residual the required level was reached within the required 4-hour time frame.**

Contaminant	Action Level (AL)	MCLG	90th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Source of Contamination
Lead (2019)	0	15.0	1.60	ppb	0 out of 10	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (2019)	1.3	1.3	0.306	ppm	0 out of 10	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

Contaminant	MCL	MCLG	Highest Level Detected	Highest Sample Date	Violation of TT Y/N	Source of Contamination
Turbidity	TT=1 NTU for a single measurement	0	7.038 NTU	6/18/19	**Y**	soil runoff
	TT= at least 95% of monthly samples≤0.3 NTU		68.22 %	June 2019	**Y**	

Violations: In June of 2019 we failed to meet the Treatment Technique for Turbidity. The Bradys Bend source was subsequently abandoned and an interconnect was installed with the Petroleum Valley Regional Water Authority. A boil water order was issued at that time through 9/5/19 until the new source was available. As a result of abandoning the Bradys Bend source we failed to monitor for Volatile Organic Chemicals. Nitrate, and Nitrites in 2019. In May of 2019 we failed to monitor for Distribution Chlorine as required weekly to be in compliance with the new Distribution Disinfection Requirement Rule. Public Notification regarding the missed samples is enclosed at the end of this report.

If you have any questions about this report or concerning your water utility, please contact **J. Wade Ion at 724-525-9355.** 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 on the second Thursday of each month at 7:00 PM at the Brady's Bend Township Building.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER
FAILURE TO MONITOR

ESTE INFORME CONTIENE INFORMACIÓN IMPORTANTE ACERCA DE SU AGUA POTABLE. HAGA QUE ALGUIEN LO TRADUZCA PARA USTED, O HABLE CON ALGUIEN QUE LO ENTIENDA.

Monitoring Requirements Not Met for the Bradys Bend Township Water System (PWSID 5030037)

Our water system violated several drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these *situations.*

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. During 2019 we failed to monitor for Volatile Organic Chemicals, Nitrate, and Nitrites. In May of 2019 we failed to monitor for Distribution Chlorine as required weekly to be in compliance with the new Distribution Disinfection Requirement Rule and therefore cannot be sure of the quality of our drinking water during that time.

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 Distribution Chlorine, Volatile Organic Chemicals, Nitrate, and Nitrites 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
Distribution Chlorine	Weekly	2	Once a week	June 2019
Volatile Organic Chemicals	Annual	0	2019	N/A-Source Abandoned
Nitrate	Annual	0	2019	N/A-Source Abandoned
Nitrites	Annual	0	2019	N/A-Source Abandoned

What happened? What was done?

During 2019 we failed to monitor for Volatile Organic Chemicals. Inorganic Chemicals, Nitrate, and Nitrites in 2019. In May of 2019 we failed to monitor for Distribution Chlorine as required weekly to be in compliance with the new Distribution Disinfection Requirement Rule. Our source was abandoned and we are now purchasing water from the Petroleum Valley Regional Water Authority.

For more information, please contact Wade Ion at 724-525-9355.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the *Bradys Bend Township Water System.*

PWS ID#: 5030037 Date distributed: 5/28/2020