

2017 ANNUAL DRINKING WATER QUALITY REPORT

PWSID #: 1150185 NAME: Valley Springs Water Company

*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 Janis Rambo, Valley Township Secretary/Treasurer, at 610-384-5751. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled Valley Township Board of Supervisors meetings. They are held on the 1st and 3rd Tuesday of each month at 7:30 PM in the Township building.

SOURCE(S) OF WATER:

Our water sources are three permanent ground water wells, and purchased surface water from PA American Coatesville (PWSID 1150106) which is supplied from the Rock Run reservoir. A copy of the Source Water Assessment for the surface water from the Rock Run reservoir may be obtained by visiting the website link below or by calling the Pennsylvania DEP at (717) 722-4048.

<http://www.depgreenport.state.pa.us/elibrary/GetDocument?docId=3299&DocName=Coatesville%20RS1150106001.pdf>

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, 2017. 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 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.

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.

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

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

RAA = Running Annual Average

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

NTU = Nephelometric Turbidity Units (a measure of water clarity)

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
Barium	2	2	0.256	0.256	ppm	12/2015	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Cadmium	5	5	3.4	3.4	ppb	12/2015	N	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints
Chromium	100	100	2	2	ppb	12/2015	N	Discharge from steel and pulp mills; Erosion of natural deposits
Fluoride ⁽¹⁾	2	2	0.92	0.34 - 0.92	ppm	2017	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate	10	10	2.97	2.87 - 2.97	ppm	2017	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrate ⁽¹⁾	10	10	2.55	2.55	ppm	2017	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Toluene	1	1	0	0	ppm	4/2017	N	Discharge from petroleum factories
Alpha emitters	15	0	3.33	3.33	pCi/l	12/2015	N	Erosion of natural deposits
Combined Radium	5	0	1.68	1.68	pCi/l	4/2012	N	Erosion of natural deposits
Total Trihalomethanes (TTHM)	80	N/A	34.8	8.3 – 34.8 RAA = 16.6	ppb	Quarterly in 2017	N	By-product of drinking water chlorination
Five Haloacetic Acids (HAA5)	60	N/A	11.4	4.2 – 11.4 RAA = 6.5	ppb	Quarterly in 2017	N	By-product of drinking water disinfection

Chlorine	MRDL = 4	MRDLG = 4	2.13	0.04 – 2.13	ppm	Monthly	N	Water additive used to control microbes
Turbidity (NTU) ⁽¹⁾	TT	N/A	0.36	0.36	NTU	2017	N	Soil run off
Total Organic Carbon ⁽¹⁾	TT	N/A	45%	35 - 45%	TT	RAA	N	Naturally present in the environment

(1) From PA American Coatesville (PWSID 1150106)

Entry Point Disinfectant Residual

Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	0.4	MRDLG = 4	2.32	ppm	Daily	N	Water additive used to control microbes.

Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	3	ppb	0	N	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper	1.3	1.3	0.282	ppm	0	N	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.

Microbial

Contaminant	MCL	MCLG	Highest # or % of Positive Samples	Violation Y/N	Sources of Contamination
Total Coliform Bacteria	More than 1 positive monthly sample	0	0	N	Naturally present in the environment.
Fecal Coliform Bacteria or <i>E. coli</i>	0	0	0	N	Human and animal fecal waste.

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 assure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amounts 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. Valley Township 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>.