

2024 ANNUAL DRINKING WATER QUALITY REPORT

PWSID # 7220040: Halifax Area Water and Sewer Authority

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 Mr. Derek Grosser, Water System Operator at (717) 856-6705. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held 3rd Tuesday of the month, 7 P.M., Halifax Borough Building, 203 Armstrong St., Halifax PA 17032.

SOURCE(S) OF WATER:

Your water comes from five (5) mountain springs and three (3) drilled wells, all located within Halifax Township. One (1) well is behind Deppen Park, the other wells and springs are near Peters Mountain Road.

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, 2024. 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:

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 (MinRDL) – The minimum level of residual disinfectant required at the entry point to the distribution system.

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.

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 (ng/L)

DETECTED SAMPLE RESULTS:

Chemical Contaminants								
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	MRDL = 4	MRDLG = 4	0.46	0.30 – 0.46	ppm	2024	N	Water additive used to control microbes.
Arsenic (IOC)	10	0	11.4	0 – 11.4	ppb	2024	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium (IOC)	2	2	0.39	0.0489 – 0.39	ppm	2024	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Nickel (IOC)	N/A	N/A	2.8	-	ppb	5/29/24	N	Leaching from metal pipes and fittings or dissolution from nickel ore-bearing rocks.
Nitrate	10	10	4.58	1.45 – 4.58	ppm	2024	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Perfluorobutanesulfonic Acid (PFBS)	N/A	N/A	2.58	0 – 2.58	ppt	2024	N	Discharge from manufacturing facilities and runoff from land use activities
Perfluorooctanesulfonic Acid (PFOS)	18	14	2.09	0 – 2.09	ppt	2024	N	Discharge from manufacturing facilities and runoff from land use activities
TTHMs (Total Trihalomethanes)	80	N/A	10.3	10.2 – 10.4	ppb	2024	N	By-product of drinking water chlorination.
Combined Uranium	30	0	1.59	1.59	µg/L	2024	N	Erosion of natural deposits.
Radium-228	5	0	1	1	pCi/l	2024	N	Erosion of natural deposits.
Entry Point Disinfectant Residual								
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination	
Chlorine (Entry Point 101 and 102)	0.40	0.40	0.40 – 1.80	ppm	2024	N	Water additive used to control microbes.	
Chlorine (Entry Point 103)	1.00	1.08	1.08– 2.20	ppm	2024	N	Water additive used to control microbes.	

<i>Lead and Copper</i>									
Contaminant	Action Level (AL)	MCLG	# of Sites Above AL of Total Sites	90th Percentile Value	Range of Sampling Results	Units	Sample Date	Violation Y/N	Sources of Contamination
Lead	15	0	0 out of 20	3.2	0 – 4.9	ppb	2022	N	Corrosion of household plumbing.
Copper	1.3	1.3	3 out of 20	1.34	0.0122 – 1.91	ppm	2022	N	Corrosion of household plumbing.

DETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:

NA – No violations in 2024.

OTHER VIOLATIONS:

NA – No violations in 2024.

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 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).

Information about Lead:

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. Halifax Area Water and Sewer Authority is responsible for providing high quality drinking water and is removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact Mr. Derek Grosser, Water System Operator at (717) 856-6705. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Information about Arsenic:

The level detected for arsenic is the highest among the 27 water samples collected. Compliance with the Arsenic Rule is based on the running annual average of all samples. This means that some individual samples may have arsenic levels above 10 ppb during the year, but the water system can still be in compliance with the arsenic MCL if the yearly average remains at or below 10 ppb.

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

OTHER INFORMATION:

Halifax Area Water and Sewer Authority prepared a service line inventory that includes the type of materials contained in each service line in our distribution system. This inventory can be accessed by contacting our office at (717) 896-3886.

We had no detections of Volatile Organic Compounds (VOC) or Synthetic Organic Compounds (SOC).