

# 2022 ANNUAL DRINKING WATER QUALITY REPORT

**PWSID #: 1090040    NAME: Village 2 Community Association**

*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 **Dan Peel at 215-416-6396**. We want you to be informed about your water supply. **We are pleased to report that our drinking water meets federal and state requirements.**

## **SOURCE(S) OF WATER:**

Our water source is two wells (Well 1 & Well 2) located within the community.

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, 2022**. 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 ( $\text{mg/L}$ )

*ppq* = parts per quadrillion, or picograms per liter

*ppt* = parts per trillion, or nanograms per liter

**DETECTED SAMPLE RESULTS:**

<b>Chemical Contaminants</b>								
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Collection Date	Violation Y/N	Sources of Contamination
Distribution System Chlorine	MRDL = 4	MRDLG = 4	0.86	0.67 – 0.86	ppm	2022	N	Water additive used to control microbes
Haloacetic Acids (HAA)	60	N/A	2.9	N/A	ppb	2022	N	By-product of drinking water chlorination
TTHMs [Total trihalomethanes]	80	N/A	11	N/A	ppb	2022	N	By-product of drinking water chlorination
Barium (IOC)	2	2	0.25	N/A	ppm	2022	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Distribution Barium (IOC)	2	2	0.25	0.23 – 0.25	ppm	2022	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Arsenic (IOC)	10	10	5.6	N/A	ppb	2021	N	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (Free) (IOC)	200	200	0.1	N/A	ppb	2021	N	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Nitrate	10	10	2	N/A	ppm	2022	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Combined Radium 228	5	0	1.94	N/A	pCi/l	2022	N	Erosion of natural deposits
Gross Alpha	15	0	2.76	N/A	pCi/l	2019	N	Erosion of natural deposits
Comb. Uranium	30	0	7.48	N/A	ppb	2019	N	Erosion of natural deposits

**Arsenic:** 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.

<b>Secondary or Unregulated Chemical Contaminants</b>								
<b>Contaminant</b>	<b>MCL in CCR Units</b>	<b>MCLG</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>Units</b>	<b>Sample Date</b>	<b>Violation Y/N</b>	<b>Sources of Contamination</b>
Manganese	50	N/A	2.1	N/A	ppb	2022	N	Discharge from metal refineries; Erosion of natural deposits.
Zinc (Entry Point)	5	N/A	0.022	N/A	ppm	2022	N	Discharge from metal refineries; Erosion of natural deposits.
Zinc (Distribution)	5	N/A	0.2	0.016 – 0.2	ppm	2022	N	Discharge from metal refineries; Erosion of natural deposits.
Distribution Aluminum	0.2	N/A	0.4	N/A	ppm	2022	N	Discharge from metal refineries; Erosion of natural deposits.
Entry Point Aluminum	0.2	N/A	<0.010	N/A	ppm	2022	N	Discharge from metal refineries; Erosion of natural deposits.
Dichloroacetic Acid (HAA)		N/A	1.4	N/A	ppb	2022	N	By-product of drinking water disinfection
Dibromoacetic Acid (HAA)		N/A	1.5	N/A	ppb	2022	N	By-product of drinking water disinfection
Chloroform (THM) Entry Point		N/A	0.58	N/A	ppb	2022	N	By-product of drinking water chlorination
Chloroform (THM) Distribution		N/A	3	N/A	ppb	2022	N	By-product of drinking water chlorination
Bromoform (THM) Distribution		N/A	0.85	N/A	ppb	2022	N	By-product of drinking water chlorination
Bromodichloromethane (THM) Distribution		N/A	3.9	N/A	ppb	2022	N	By-product of drinking water chlorination
Chlorodibromomethane (THM) Distribution		N/A	3.4	N/A	ppb	2022	N	By-product of drinking water chlorination

<b>Entry Point Disinfectant Residual</b>							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	0.40	0.47	0.47 – 5.1	ppm	Daily 2022	N	Water additive used to control microbes.

<b>Distribution Disinfectant Residual</b>							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	0.20	0.67	0.67 - 0.88	ppm	Daily 2022	N	Water additive used to control microbes.

<b>Microbial</b>					
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	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.

<b>Lead and Copper (10 Samples)</b>							
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead (2022)	15	0	2	ppb	0	N	Corrosion of household plumbing.
Copper (2022)	1.3	1.3	0.190	ppm	0	N	Corrosion of household plumbing.

#### **Additional 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. Carpenter's Row 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:** The 2022 Lead and Copper samples were collected on time, but a lab error caused the late reporting of the results.

#### **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)**.