# 2022 Water Quality Report City of Rehoboth Beach 229 Rehoboth Avenue, PO Box 504 PWS ID# DE0000723 5/22/2023

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with this information because informed customers are our best allies.

**Spanish (Espanol):** Este informe contiene informacion muy importante sobre la calidad de su agua beber. Traduscalo o hable con alguien que lo entienda bien.

#### Do you need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

#### Where does my water come from?

Your water is groundwater that comes from the Columbia Aquifer.

### Source water assessment and availability

Our source water assessment is available through: <a href="http://delawaresourcewater.org/assessments/">http://delawaresourcewater.org/assessments/</a>

#### The Source Water Assessment's Summary of Our System's Susceptibility to Contamination

Overall, Rehoboth Beach Water Department's source water (untreated water) has exceeded drinking water standards for pesticides, metals, and other inorganic compounds based on analytical data. It has a very high susceptibility rating to nutrients, a high susceptibility to pathogens, petroleum hydrocarbons, PCB's and other organic compounds.

#### Why are there contaminants in my drinking water?

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 (EPA) Safe Drinking Water Hotline, 800-426-4791.

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. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, 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, are byproducts 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.

#### How can I get involved?

Contact Robert Downs, Water Department Supervisor at 302-227-6181, ext. 640. You can also attend any of the regularly scheduled Board of Commissioners Meetings. They are held on the third Friday of each month at 2:00 pm, please contact City Hall for more information at 302-227-6181.

#### 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. The City of Rehoboth Beach is responsible for providing high quality drinking water, 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: <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>

#### Additional health effects information

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

## **Water Quality Data Tables**

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions in the tables below.

## **Definitions**

Unit Descriptions								
Term	Definition							
ppm	ppm: parts per million, or milligrams per liter (mg/L)							
ppb	ppb: parts per billion, or micrograms per liter (μg/L)							
NA	NA: not applicable							
ND	ND: Not detected							
NR	NR: Monitoring not required, but recommended.							

Importa	Important Drinking Water Definitions						
Term	Definition						
MCLG	MCLG: Maximum Contaminant Level Goal: 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.						
MCL	MCL: Maximum Contaminant Level: 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.						
SMCL	SMCL: Suggested Maximum Contaminant Level for aesthetic contaminants.						
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.						
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.						
MRDLG	MRDLG: Maximum residual disinfection level goal. 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.						
MRDL	MRDL: Maximum residual disinfectant level. 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.						

# **Table of Regulated Contaminants**

Lead and Copper	Units	MCLG	AL	90 <sup>th</sup> Percentile		Sample Date	Violation	Typical Source of Contamination
Lead	ppb	0	15	0.9	0	2021	No	Corrosion of household plumbing systems; erosion of natural deposits.
Copper	ppm	1.3	1.3	0.26	0	2021	No	Erosion of natural deposits; leaching from wood preservatives; corrosion of household plumbing system.
Disinfectants and Disinfection By-Products	Units	MCLG	MCL	Highest Level	Range	Sample Date	Violation	Typical Source of Contamination
Total Trihalomethanes (TTHM)	ppb	n/a	80	13	13.03- 13.03	2022	No	By-product of drinking water disinfection.
Chlorine	ppm	MRDLG 4	MRDL 4	0.83	0.66-1.01	2022	No	Water additive to control microbes.
Inorganic Contaminants	Units	MCLG	MCL	Highest Level	Range	Sample Date	Violation	Typical Source of Contamination
Fluoride	ppm	2	2.	1	0.1-1.17	2022	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	ppm	10	10	9	3.05-8.61	2022		Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Barium	ppm	2	2	0.10	0.10-0.10	2022		Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Selenium	ppb	50	50	0.93	0.93- 0.93	2022		Discharge from petroleum and metal refineries; erosion of natural deposits; or discharge from mines.

# **Delaware Secondary Drinking Water Standards**

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Contaminants	Units	State SMCL	Average	Range					
Alkalinity	ppm	n/a	10.92	8.04-14.44					
Chloride	ppm	250	39.04	20.97-62.54					
рН	NA	6.5 – 8.5	7.2 (2018)						
Sodium	ppm	n/a	19.66	15.18-23.60					
Sulfate	ppm	250	16.67	9.83-20.63					