

Green Haven Correctional Facility

Water Treatment Plant

Stormville, NY 12582

Public Water Supply ID # 1300425

Annual Drinking Water Quality

Report

2022

INTRODUCTION

To comply with State regulations, Green Haven Correctional Facility will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, your tap water met all State drinking water health standards, however our system did violate a Lead maximum contaminant level (H-Block 3rd Deck), but met all other water quality standards. This report provides an overview of last year's water quality 1/1/2022 through 12/31/2022. Included are details about where your water comes from, what it contains, and how it compares to State standards.

If you have any questions about this report or concerning your drinking water please contact:

Mr. D. Rabideau, Plant Superintendent
Green Haven Correctional Facility
594 Rt. 216 Stormville, NY 12582
(845) 221-2711 Ext. 3950

WHERE DOES OUR WATER COME FROM?

In general, 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 activities. Contaminants that may be present in source water include: microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water system with eight service connections, serves approximately 2,800 people. Our water source is a well water supply consisting of three wells. The wells are located approximately 3/4 of a mile north west of the facility. The water is filtered, softened, treated by ultraviolet disinfection and chlorinated. It is then pumped to two storage tanks with a combined capacity of 1.3 million gallons. Treated water is then gravity fed to the facility.

The New York State Department of Health has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The state source water assessment included a susceptibility rating based on the risk posed by each potential source of contamination and how easily contaminants can move through the subsurface to the wells. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is,

or will become contaminated. See section "Are There Contaminants In Our Drinking Water?" for a list of the contaminants that have been detected, if any. The source water assessments provide resources managers with additional information for protecting source waters into the future. The source water assessment has rated our water source as having an elevated susceptibility to microbials, nitrates, industrial solvents and other industrial contaminants. These rating are due primarily to the close proximity of the wells to permitted discharge facilities, (industrial/commercial facilities that discharge wastewater into the environment and are regulated by the state and/or federal government) and the associated industrial activity in the assessment area. In addition, based upon the data provided, the wells are located in an area which has the potential to flood.

The county and state health departments will use this information to direct future source water protection activities. These may include water quality monitoring, resource management, planning and education programs. A copy of the assessment can be obtained by contacting us, as noted below.

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ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test our drinking water for numerous contaminants. These contaminants include: total coliform, turbidity, nitrate, lead and copper, principal organic compounds, synthetic organic compounds, primary inorganic compounds, total trihalomethanes, haloacetic acids, radiological and disinfection byproducts. The table presented within this report depicts which compounds were detected in your drinking water. The State allows us to test for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

It should be noted that all drinking water, including bottled drinking water, may be reasonably 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 EPA's Safe Drinking Water Hotline (800-426-4791) or the Dutchess County Health Department at (845-486-3404).

Definitions:

Action Level (AL) – The concentrations of a contaminant, which if exceeded, triggers treatment, or other requirements which a water system must follow.

Non-Detects (ND) – Laboratory analysis indicates that the constituent is not present.

Maximum Contaminant Level (MCL) – The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

Micrograms per liter (ug/L) – Corresponds to one part of liquid in one billion parts of liquid (parts per billion-ppb)

Milligrams per liter (mg/L) – Corresponds to one part of liquid in one million parts of liquid (parts per million-ppm)

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Table Of Detected Contaminants

Contaminant	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	Regulatory Limit	Likely Source of Contamination
				(MCL, TT or AL)	
Nitrate as N	4/12/2022	0.379	mg/L	MCL = 10	Runoff from fertilizer use; leaching from septic; sewage; erosion of natural deposits.

Table 8D: Inorganic Chemicals

Iron (Well #2)	3/7/2018	0.0329	mg/L	MCL = 0.3*	Naturally occurring mineral deposits; the use of iron pipes.
Iron (Well #3)	3/7/2018	0.0950	mg/L	MCL = 0.3*	

* If iron and manganese are present, the total concentration of both should not exceed 0.5 mg/L. Higher levels may be allowed by the State when justified by the supplier of water.

Table 9A: Disinfection Byproducts/ Stage 2

Total Trihalomethanes	8/10/2022	3.9	ug/L	MCL = 80	By-product of drinking water chlorination needed to kill harmful organisms. TTHM are formed when source water contains large amounts of organic matter.
Total Haloacetic Acids	8/10/2022	1.1	ug/L	MCL = 60	By-product of drinking water disinfection needed to kill harmful organisms.

Lead and Copper

Copper**	8/10/2022	0.234 0.0559 - 0.347	mg/L	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead***	8/10/2022	0.00433 <0.001 - 0.0238	mg/L	AL = 0.015	Corrosion of household plumbing systems; erosion of natural deposits.

** The level presented represents the 90th percentile of the 10 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the Copper values detected at your water system. In this case, 10 samples were collected at your water system and the 90th percentile value is the reported value. The action level for Copper **Was Not** exceeded at any of the sites tested.

*** The level presented represents the 90th percentile of the 10 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the Lead values detected at your water system. In this case, 10 samples were collected at your water system and the 90th percentile value is the reported value. The action level for Lead **Was** exceeded at one of the sites tested.

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Table Of Detected Contaminants

The following tests were performed at the Power House to provide water quality data to a water heater manufacturer to resolve an issue on a recently installed water heater. **These tests were NOT on the 2018 Water Sample Schedule and were NOT part of the Department of Health Water Monitoring Requirements for 2018.**

Contaminant	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	Regulatory Limit (MCL,TT or AL)	Likely Source of Contamination
Sodium	10/23/2018	102	mg/L	No Designated Limit*****	Released through mineral deposits in ground and surface water.
Sodium (Well Storage Tank)	10/23/2018	30.6	mg/L	No Designated Limit*****	Released through mineral deposits in ground and surface water.
Chloride	10/23/2018	49.7	mg/L	MCL = 250	Naturally occurring element in most natural waters; weathering of soils; salt-bearing geological formations; and deposition of salt spray.
Alkalinity to pH 4.5	11/14/2018	161	mg/L	N/A	Rocks which contain carbonate, bicarbonate, and hydroxide compounds.
Calcium	11/14/2018	8.96	mg/L	N/A	Naturally occurs in water.
Total Dissolved Solids	11/14/2018	246	mg/L	N/A	Natural environment; urban runoff; chemicals used in water treatment processes; and plumbing hardware.
Hardness as CaCO3	11/14/2018	40	mg/L	N/A	Naturally geologic formation in the ground.
Ortho-phosphate as P	11/14/2018	0.0100	mg/L	N/A	Runoff from fertilizer; human and pet sewage; chemical manufacturing; and soil erosion in areas lacking sufficient vegetation.
Copper	11/14/2018	0.0100	mg/L	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Manganese	11/14/2018	0.0066	mg/L	0.3*****	Common metallic elements found in the earth's crust; the use of iron pipes.
Magnesium	11/14/2018	5.74	mg/L	N/A	Naturally occurring mineral deposits.
pH @ 18.8 C	11/14/2018	7.8	Units	N/A	
Corroaivity (Langlier Index)	11/14/2018	246	mg/L	N/A	
Conductivity @ 25 C	11/14/2018	526	umhos/ cm	N/A	
Dissolved Oxygen	11/14/2018	7.8	mg/L	N/A	

**** If iron and manganese are present, the total concentration of both should not exceed 0.5 mg/L. Higher levels may be allowed by the State when justified by the supplier of water.

*****Water containing more than 20 mg/L of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/L of sodium should not be used for drinking by people on moderately restricted sodium diets.

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Table Of Detected Contaminants

The following tests were performed on Well #1. **These tests were NOT on the 2021 Water Sample Schedule and were NOT part of the Department of Health Water Monitoring Requirements for 2021.** Starting the week of 8/30/2021 well rehabilitation was performed on Well #1. On 9/1/2021, a severe storm caused flooding of the well field and water entered the well casing. Following the testing requirements and treatment requirements from the Dept. of Health, Well #1 was properly disinfected, flushed, water quality tests performed, and with the Dept. of Health approval Well #1 was back in service on 9/15/2021.

Contaminant	Date of Sample	Level Detected (Avg/Max) (Range)	Unit Measurement	Regulatory Limit (MCL,TT or AL)	Likely Source of Contamination
Total Coliforms	9/13/2021	Positive	N/A	N/A	Bacteria found in soil; water influenced by surface water; and in human or animal waste.
E. Coli	9/13/2021	Positive	N/A	N/A	Feces from infected humans or animals; sewage overflows; polluted storm water runoff; and agricultural runoff.

WHAT DOES THIS INFORMATION MEAN?

As you can see by the table, our system had a Lead violation. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. We are required to present the following information on lead in drinking water.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women, infants, and young children. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. Green Haven Correctional Facility 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 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 exposures is available from the **Safe Drinking Water Hotline (800) 426-4791** or at <http://www.epa.gov/safewater/lead>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2022, our water system was in compliance with applicable State drinking water operating, monitoring, and reporting requirements.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

Although our drinking water met or exceeded State and Federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than general population. Immune-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergo 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia, and other microbial pathogens are available from the **Safe Drinking Water Hotline (800) 426-4791**.

Closing

In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. We ask that all our customers help us protect our water sources, which are the heart of our community. Please call our office if you have any questions.

Annual Water Quality Report Certification Form

Water System Name: GREEN HAVEN CORRECTIONAL FACILITY

Public Water Supply ID #: NY 1300415

The community water system named above hereby confirms that its Annual Water Quality Report (AWQR) has been distributed to customers and appropriate notices of availability have been given. Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the health department.

Certified by: Name: ROBERT RAINBOLT
Title: S.F.P.D
Phone #: (845) 221-2711 EXT. 3574 Date: 5/18/23

Please indicate how your report was distributed to your customers:

- AWQR was distributed to bill-paying customers by mail.
- AWQR was distributed by other direct delivery method(s) (check all that apply)
 - Hand delivered.
 - Published in local paper (i.e., *Penny Saver*) that was directly delivered or mailed to all bill-paying customers.
 - Published in local municipal newsletter that was directly delivered or mailed.
 - Mailed a notification that AWQR is available on a public website via a direct URL
 - Emailed with a message containing a direct URL link to the AWQR
 - Emailed with AWQR sent as an attachment to the email
 - Emailed with AWQR sent as an embedded image in the email
 - Additional electronic delivery that meets "otherwise directly deliver" requirement
 - Other (please specify) POSTED AT EMPLOYEE TIME CLOCK / ON FILE AT LAW LIBRARY / FRONT LOBBY
- System does not have bill-paying customers.
- For systems serving at least 100,000 persons: in addition to direct delivery to bill-paying customer the AWQR was posted on a publicly-accessible website at

Please indicate what "Good Faith" efforts were used to reach non-bill paying consumers (check all that apply).

- Posting the Annual Water Quality Report on the Internet at _____
- Mailing the Annual Water Quality Report to postal patrons within the service area
- Advertising the availability of the Annual Water Quality Report in the news media
- Publication of the Annual Water Quality Report in a local newspaper
- Posting the Annual Water Quality Report in public places (attach a list of locations) SEE ABOVE
- Delivery of multiple copies to single-bill addresses serving several persons such as: apartments, businesses, and large private employers
- Delivery to community organizations
- Other (please specify) _____