

This 2021 Water Quality Report is made available to every resident in the Cortlandt Consolidated Water District as mandated by the New York State Department of Health.

Dear Cortlandt Residents:

The quality and protection of our drinking water are critical issues that our administration considers a major priority. We are pleased to report that recent testing confirms that the quality of our town's drinking water is **excellent**.

The monitoring of our water and meeting strict Federal standards has been a project that our Department of Environmental Services Water Division has addressed in collaboration with the Northern Westchester Joint Waterworks on a regular basis.

The Northern Westchester Joint Waterworks (which includes the towns of Cortlandt, Yorktown, Somers, as well as the Montrose Improvement District) is continually upgrading our water facilities and this collaboration also creates a secure backup water system for our residents. This regional plan is historic and proactive in the region and saves our taxpayers money, as we continue to provide water services that meet and exceed federal mandates for filtered drinking water.

Yours truly,
Richard H. Becker, M.D.
Supervisor



Supervisor Richard H. Becker, M.D.

Town Board Members:

James F. Creighton Cristin Jacoby
Francis X. Farrell Robert E. Mayes

TOWN OF CORTLANDT

Contact Us

For a copy of this report, or to report unusual water characteristic please call
(914) 734-1026

Important Numbers

Town of Cortlandt Consolidated Water (24 hour/7days)
(914) 734-1026

To report any polluting activities

1-(888)-H2O-SHED or
1-(888)-426-7433, 24-hour



Annual Drinking Water Quality Report for 2021 Cortlandt Consolidated Water District

167 Roa Hook Road
Cortlandt Manor, NY 10567
(New York State I.D.#: 5903423)
(Westchester County I.D.#: 00017)

Contacts:

Stephen Ferreira, P.E., Director of Environmental Services

INTRODUCTION

To comply with State regulations, the Cortlandt Consolidated Water District, will be annually issuing a report describing the quality of our 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 or exceeded all State and Federal drinking water health standards.

This report provides an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to State standards. The office for the Water Division is located at 167 Roa Hook Road across from Camp Smith.

If you want to learn more, please attend any of our regularly scheduled Town board meetings. The Town Board holds its monthly meetings on Tuesday in the Vincent F. Nyberg General Meeting room at the Town Hall at 7:30 pm. They also have three work sessions a month, meeting on Mondays. Special meetings are held as necessary. All meetings are open to the public. For more information, contact the Supervisors Office at 734-1002 or visit the Town of Cortlandt Website.

If you have any questions about this report or concerning your drinking water, please contact Stephen J. Ferreira, P.E. at (914) 734-1026.

WHERE DOES MY WATER COME FROM

In general, the sources of drinking water (both tap and bottled) 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 the following: 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 that 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.

Town of Cortlandt

2021 Water Quality Report

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Our water main source is the New York City DEP Catskill Aqueduct in the Town of Cortlandt. Water at The Catskill Water Treatment Plant is treated with the following processes prior to distribution: pH adjustment, coagulation, filtration, chlorine disinfection and corrosion control.

A connection with the City of Peekskill water system is maintained as a supplementary supply in the event that the Catskill water is not available. Also, treated water from the Amawalk Water Treatment Plant on Route 35 in Somers, can be used as an emergency water supply via a 24" transmission main from Yorktown.

The NYS DOH has evaluated the susceptibility of water supplies statewide to potential contamination under the Source Water Assessment Program (SWAP), and their findings are summarized in the paragraphs below. It is important to stress that these assessments were created using available information and only estimate the potential for source water contamination. Elevated susceptibility ratings do not mean that source water contamination has or will occur for this potable water supply (PWS). This PWS provides treatment and regular monitoring to ensure the water delivered to consumers meets all applicable standards.

This PWS obtains water from the New York City water supply system. Water either comes from the Catskill/Delaware watersheds east of the Hudson River and/or from the Croton watershed in Putnam and Westchester counties. The New York City Department of Environmental Protection (DEP) implements a series of programs to evaluate and protect source water quality within these watersheds. Their efforts focus on three important program areas: the enforcement of strengthened Watershed Rules and Regulations; the acquisition and protection of watershed lands; and implementation of partnership programs that target specific sources of pollution in the watersheds.

FACTS AND FIGURES

Our water system serves approx. 28,600 people through 8,100 services connections. The total water distributed in 2021 was 0.98 billion gallons. The daily average of treated water pumped into the distribution system is 2.9 million gallons per day. For the year of 2021 we had an unaccounted for water total of 34%. This water was used to flush mains, fight fires, and lost in water main and service connection leakage, etc. Water customers in 2021 were charged \$9.33 per 1,000 gallons of water for an average annual bill of approximately \$803.00.

ARE THERE CONTAMINANTS IN OUR DRINKING WATER?

As the State regulations require, we routinely test your drinking water for numerous contaminants. These contaminants include: total coliform, turbidity, inorganic compounds, nitrate, nitrite, lead and copper, volatile organic compounds, total Trihalomethanes, and synthetic organic compounds. The tables presented below depict 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.

Some people may be more vulnerable to disease causing microorganisms or pathogens 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 or 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 providers about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (800) 426-4791.

It should be noted that all drinking water, including bottled drinking 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 EPA's Safe Drinking Water Hotline (800-426-4791) or the Westchester County Health Department at (914) 813-5000.

Table # 1
Catskill (NWJWW) Detected Contaminants

Contaminant	Violation Yes/No	Date of Sample	Level Detected (Average & Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT, or AL)	Likely Source of Contaminant
<u>Inorganic</u>							
Alkalinity	no	1/1 – 12/31/21	21.6 (13.3-73)	mg/L as CaCO ₃	N/A	N/A	Naturally occurring
Hardness	no	1/1 – 12/31/21	22.3 (11.4 – 130)	mg/L as CaCO ₃	N/A	N/A	Naturally occurring
Barium	no	6/4/21	0.007	mg/L	2	MCL 2	Erosion of natural deposits.
Chloride	no	6/4/21	11.7	mg/L	N/A	MCL 250	Naturally occurring or road salt
pH	no	1/1 – 12/31/21	7.66 (7.21-8.58)	N/A	N/A	N/A	N/A
Phosphorus, Ortho	no	1/1 – 12/31/21	0.78 (0.64-1.37)	mg/L	N/A	N/A	Additive to prevent corrosion
Sodium ³	no	6/4/21	7.91	mg/L	N/A	(20) ³	Naturally occurring or road salt
<u>Synthetic Organic</u>							
Perfluorooctanoic Acid (PFOA)	no	2/18/21 6/4/21 8/12/21 10/22/2021	<2.0 (<2.0)	ng/L	N/A	MCL 10	Released into the environment from widespread use of commercial and industrial applications.
Perfluorooctanesulfonic (PFOS)	no	2/18/21 6/4/21 8/12/21 10/22/2021	<2.0 (<2.0)	ng/L	N/A	MCL 10	Released into the environment from widespread use of commercial and industrial applications.
1,4 Dioxane	no	2/18/21 6/4/21 8/12/21 10/22/2021	<2.0 (<2.0)	ng/L	N/A	MCL 1000	Released into the environment from widespread use of commercial and industrial applications.
<u>Microbiological</u>							
Filtration Turbidity ⁵	no	4/26/21	Max Turb=0.70 %<0.3=99.80% Range 0.04-0.7 Average 0.07	NTU	N/A	TT=95% of samples<0.3 NTU	Soil runoff.
<u>Radioactive</u>							
Combined Radium 226 and Radium 228 ⁶	no	8/13/21	0.1961	pCi/L	0	MCL 5 pCi/L	Decay of natural deposits.
Gross Alpha Activity	no	8/13/21	-0.322+/-0.509	pCi/L	0	MCL 15	Decay of natural deposits.
Gross Beta activity ⁴	no	8/13/21	1.35+/-0.941	pCi/L	0	MCL 50 pCi/L	Decay of natural deposits and human-made emissions.
Total Uranium	no	8/12/21	0.016+/-0.001	µg/L	0	30 µg/L	Erosion of natural deposits

Table # 2
Yorktown Consolidated Water District Detected Contaminants

Contaminants	Violation Yes/No	Date of Sample (Amawalk/Catskill)	Level Detected (Range)		Unit Measurement	MCLG	Regulatory Limit (MCL, TT, or AL)	Likely Source of Contaminants
			Amawalk	Catskill				
<u>Inorganic</u>								
Alkalinity	no	Daily	77.60 (56.30-94.00)	21.80 (13.30-73.00)	mg/L as CaCO ₃	N/A	N/A	Naturally occurring
Hardness	no	Daily	83.70 (60.00-120.00)	22.30 (11.40-130.00)	mg/L as CaCO ₃	N/A	N/A	Naturally occurring
Barium	no	6/4/21	0.0396	0.0070	mg/L	2	MCL 2	Erosion of natural deposits.
Chloride	no	6/4/21	162	11.7	mg/L	N/A	MCL 250	Naturally occurring or road salt
pH	no	Daily	7.57 (7.24-8.01)	7.66 (7.21-8.58)	N/A	N/A	N/A	N/A
Phosphorus, Ortho	no	Daily	0.80 (0.21-1.46)	0.78 (0.64-1.37)	mg/L	N/A	N/A	Additive to prevent corrosion
Sodium	no	6-4-21	68.20	7.91	mg/L	N/A	(20) ¹	Naturally occurring or road salt
Sulfate	no	6/4/21	11.1	<5.0	mg/L	N/A	MCL 250	Naturally occurring
Nitrate as N	no	6/4/21	0.24	<0.050	mg/L	10	MCL 10	Erosion of natural deposits, fertilizer runoff.
Manganese	no	6/4/21	ND	0.012	mg/L	N/A	N/A	Naturally occurring
Magnesium	no	6/4/21	ND	11.3	mg/L	N/A	N/A	Naturally occurring
<u>Synthetic Organic</u>								
Perfluorooctanoic Acid (PFOA)	no	2/18/21 6/4/21 8/12/21 10/22/2021	4.68 (4.4-5.0)	<2.0 (<2.0)	ng/L	N/A	MCL 10	Released into the environment from widespread use of commercial and industrial applications.
Perfluorooctanesulfonic Acid (PFOS)	no	2/18/21 6/4/21 8/12/21 10/22/2021	3.28 (2.7-4.1)	<2.0 (<2.0)	ng/L	N/A	MCL 10	Released into the environment from widespread use of commercial and industrial applications.
1,4 Dioxane	no	2/18/21 6/4/21 8/12/21 10/22/2021	<2.0 (<2.0)	<2.0 (<2.0)	ng/L	N/A	MCL 1000	Released into the environment from widespread use of commercial and industrial applications.
<u>Microbiological</u>								
Contaminants	Violation (Yes/No)	Date of Sample Amawalk/Catskill	Level Detected Amawalk Average (Range)	Level Detected Catskill Average (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT or AL)	Likely Source of Contaminants
Filtration Turbidity ⁴	No	9/24 & 11/8/21 / 4/26/21	0.08 (0.04-0.38)	0.07 (0.04-0.7)	NTU	N/A	TT=99% of samples <0.3	Soil Runoff

Table # 3
Cortlandt Consolidated Water District Detected Contaminants

Contaminant (# samples)	Violation	Sample Date	Level Detected (90 th Percentile) (ug/L)	Samples Above Action Limit	MCLG	Regulatory Limit (MCL, TT, or AL)	Likely Source
Lead ² (30)	No	2021	<1.00 (ND – 9.8)	0	0	AL=15	Corrosion of Household Plumbing. Erosion of natural deposit
Copper ¹ (30)	No	2021	77 (11.0 – 198)	0	1300	AL=1300	Corrosion of Household Plumbing. Erosion of natural deposit
Organic							
Contaminants	Violation Yes/No	Date of Sample	Average Level Detected (Range)	Unit Measurement	MCLG	Regulatory Limit (MCL, TT, or AL)	Likely Source of Contaminants
Halo acetic Acids	No	Jan2021 April2021 July2021 Oct.2021	42.3 ⁷ (14.10 – 93.3) ⁸	ug/L	N/A	MCL= 60	By-product of drinking water disinfection needed to kill harmful organisms
Trihalomethanes	No	Jan2021 April2021 June2021 Oct.2021	62.08 ⁷ (13.4-86) ⁸	ug/L	N/A	MCL=80	By-product of drinking water chlorination needed to kill harmful organisms. TTHMs are formed when source water contains large amounts of organic matter.
Turbidity ⁵ (distribution)	No	2021	0.29 (0.05 – 42.5)	NTU	N/A	MCL = 5	Soil runoff
Chlorine Residual	No	Daily	0.93 (0.03 -1.50)	Mg/l	N/A	MRDL=4	Water Additive used to Control Microbes.

1. This concentration presented represents the 90th percentile of the 30 sites tested for copper in 2021. 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. This value was <1 mg/L. The action level was not exceeded at any of the sites tested. Next sampling event will be 2024.
2. This concentration represents the 90th percentile of the 30 sites tested for lead in 2021. This value was 0.198 ug/L The action level was not exceeded at any of the sites tested.. Sample frequency for lead & copper is every three years. Next sampling event will be 2024.
3. People on severely restricted sodium diets should not consume water containing more than 20 mg/L of sodium. Water containing more than 270 mg/L of sodium should not be used by people on moderately restrictive sodium diets.
4. Turbidity is a good indicator of the effectiveness of our filtration system. This value is the highest single combined filter measurement. At least 95% of the samples collected must be below 0.30 NTU
5. Turbidity is a measure of the cloudiness of the water. The monthly average must be below 5 NTU.
6. This combined sample collected from the Amawalk treatment plant and Catskill filter plant must be collected every 6 years. The State considers 50 pCi/L to be a level of concern for Beta particles.
7. This level represents the highest value of the location annual running average calculated from the data collected.
8. This range represents the minimum and maximum values out of all the TTHM and HAA5 data collected throughout the year.

MONTROSE, YORKTOWN, CORTLANDT REPORT FOR 2021 **NON-DETECTED SUBSTANCES AND THE FREQUENCY OF TESTING**

According to State regulations, the following lists of substances (along with test frequencies) were tested for in your drinking water and **not detected**. Bromochloromethane, Bromoform, and dibromoacetic acid was tested quarterly from four sites. Arsenic, beryllium, cadmium, color, mercury, nitrite, selenium, silver, and thallium were tested for annually. Bromomethane, carbon tetrachloride, chloroethane, chloromethane, dibromomethane, dichlorodifluoromethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis-1, 2-dichloroethene, trans-1, 2-dichloroethene, 1,2-dichloropropane, 1,3-dichloropropane, 2,2-dichloropropane, 1,1-dichloropropene, cis-1, 3-dichloropropene, trans-1, 3-dichloropropene, methylene chloride, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, tetrachloroethene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethene, trichlorofluoromethane, 1,2,3-trichloropropane, vinyl chloride, benzene, bromobenzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, chlorobenzene, 2-chlorotoluene, 4-chlorotoluene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, ethyl benzene, hexachlorobutadiene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, styrene, toluene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,3,5-trichloromethylbenzen, p&m-xylene, o-xylene, methyl t-butyl ether, methyl isobutyl ketone, 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, aldrin, dieldrin, chlordane, endrin, heptachlor, heptachlor epoxide, lindane, methoxychlor, toxaphene, proachlor, PCB's, 2,4-D, 2,4,5-T, silvex, dalapon, dicamba, dinoseb, pentachlorophenol, picloram, alachlor, atrazine, simazine, hexachlorobenzene, hexachlorocyclopentadiene, benzo(a)pyrene, di (2-ethylhexyl) adipate, di (2-ethylhexyl) phthalate, aldicarb sulfoxide, aldicarb sulfone, oxamyl, methomyl, 3-hydroxycarbofuran, aldicarb, carbofuran, carbaryl, glyphosate, and diquat were tested annually.

DEFINITIONS FOR TABLES

Action Level (AL): The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that 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.

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 microbiological 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 microbiological contamination.

Micrograms per liter (µg/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).

Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Picocuries per liter (pCi/L): A measure of the radioactivity in water

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

COMMITMENT OF CONTINUING SERVICE

Again we are pleased to present our annual water quality report. This report covers the results of completed testing done on our water system from January 2021 to December 2021. Your Water District is committed to delivering the best quality drinking water to its residence. We remain committed to meet the challenges of education and of water conservation and of serving the needs of all of our water consumers. For additional information on this report or any questions feel free to contact the Water Division Office at 914-734-1026.

INFORMATION AVAILABLE FROM

Cortlandt Consolidated Water District 914-734-1026
Westchester County Health Department 914-813-5000

INFORMATION ON LEAD

The information summarized in Table 3 shows that our distribution system had no violations. Lead was below the Action Level of 15 ug/L in 30 of the 30 first draw water samples collected. We present the following required statement on lead in drinking water for your information:

“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. The Cortlandt Water District 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 (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.”

WHAT DOES THIS INFORMATION MEAN?

As you can see by the tables in the previous section, our system had no violations with respect to contaminants. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the New York State Department of Health.

The appropriate updated Emergency Response Plan and Vulnerability Assessment was submitted and approved in 2021 by the New York State Department of Health.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards.



WATER CONSERVATION

Please be aware that although the Town of Cortlandt has not implemented any restrictions on water usage at this time, it is expected that we all conserve this natural resource.

Here are some ways that you can help save water and money:

- Repair all leaks promptly. Leaks waste water 24 hours a day, 7 days a week. Check all faucets and toilets for leaks.
- Install aerators on all sinks and use a high-pressure, low-flow showerhead. Replacing old fixtures with water conserving models can produce substantial savings without reducing effectiveness and comfort.
- Water your gardens and lawns in the early morning or evening instead of the heat of the day to reduce evaporation.
- Do not over-water! Measure the rainfall and install the proper moisture sensors on your lawn sprinkler systems. Your lawn only needs one inch of water per week. Your gardens may need more, you can usually tell by the droop of the leaves. Using too much water is not only expensive but can cause damage. If you do water, water deeply, not in short bursts.
- Raise the blade on your mower and keep the grass longer, leave the clippings on the lawn as compost. This will lead to a more robust and healthier lawn.

COMPLETED PROJECTS

REPLACEMENT WATER MAINS FOR SHERWOOD ROAD RESIDENTS:

New ductile iron water mains, fire hydrants and valves have been replaced on Sherwood Road.

We performed our annual fire hydrant flushing program which serves two functions: the first is clearing the water mains of sediment and debris, the second is it gives us the opportunity to operate each hydrant and find any that may be in need of repair and/or service.

We currently perform annual leak detection surveys for our entire system. This allows us to find and address all the leaks throughout our distribution system.

We are continuing to update our GIS system, which is used to locate hydrants, water mains, and curb box. The system is also used to create work orders used for the daily operations of the system.

PROPOSED PROJECTS FOR 2022

FIRE HYDRANT INSPECTION, REPAIR AND REPLACEMENT PROGRAM:

The Cortlandt Consolidated Water District has developed an aggressive Fire Hydrant inspection program that will exercise, inspect and repair hydrants throughout Town.

NEW WATER MAIN TO CONNECT TO 24" TRANSMISSION MAIN:

The Town is currently working on the installation of a new water main feed to our Croton Park Colony water storage tanks. This will allow the filling of our storage tanks directly from the 24" Northern Westchester Joint Water Works transmission main that exists along the Route 202/35 corridor.

REPLACEMENT WATER MAINS FOR CROTON PARK ROAD RESIDENTS:

Plans have been submitted to Westchester County Department of Health for the replacement of ACP water mains on Croton Park Road. We expect to have the project complete by the end of summer 2023.

SUMMARY

Thank you for allowing us to continue to provide you and your family with quality drinking water this year. We ask that all our customers help us protect all of our water sources, which are the heart of our community. Please do not hesitate to call our office at (914) 737-0100 if you have questions or concerns.



TOWN OF CORTLANDT

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2021 DRINKING WATER SUPPLY & QUALITY STATEMENT

Cortlandt Consolidated Water District
167 Roa Hook Road
Cortlandt Manor, NY 10567