

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



ABOUT THE ERIE COUNTY WATER AUTHORITY

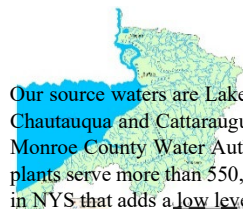
The ECWA was created in 1949 by a special act of the New York State Legislature to ensure that the people and the industry of Erie County would have a safe, plentiful supply of water for the future. Since 1953, the ECWA has produced and reliably delivered water of the highest quality to its customers at an affordable rate. As an independent public-benefit corporation, ECWA is not an agency of New York State and is independent of Erie County government. ECWA operates as a financially self-sustaining public utility and pays all its operating expenses from revenues generated by the sale of water to its over 550,000 customers.

To comply with State Regulations, ECWA 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 New York State drinking water health standards. We are proud to report our system did not violate a maximum contaminant level or any other water quality standard. 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.

If you have any questions about this report or concerns about your drinking water, please contact Sabrina Figler, Director of Water Quality, @ 716-685-8574. We want you to be informed about your drinking water. If you want to learn more, please attend any of our regularly scheduled Board meetings. The schedule may be found on www.ecwa.org. Board meetings are also streamed live and archived for later viewing from this website.

WHERE DOES OUR 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 animal or human activities. Contaminants that may be present in source water include microbial contaminants, inorganic contaminants, pesticides and herbicides, organic chemical contaminants, and radioactive contaminants. To ensure that tap water is safe to drink, the State and the EPA prescribe regulations which limit the number of certain contaminants in water provided by public systems. The State Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



Our source waters are Lake Erie and the Niagara River. The ECWA's Sturgeon Point Treatment Plant in the Town of Evans draws water from Lake Erie to supply the southern area of Erie County and some communities in Chautauqua and Cattaraugus Counties. The Van de Water Treatment Plant in the Town of Tonawanda draws water from the Niagara River and provides water to the northern area of Erie County and to some customers of Monroe County Water Authority (MCWA) through an interconnection at the border to Genesee County. The MCWA operates in Genesee County. We do not directly serve any customers within Monroe County. These two plants serve more than 550,000 people through 174,198 service connections in Western New York. The water is treated by conventional treatment and filtration and chlorine disinfection. The ECWA is one of the many systems in NYS that adds a low level of fluoride to drinking water to provide consumer dental health protection. During 2023, our system did not experience any restriction of our water source.

FACTS AND FIGURES

In 2023, the ECWA produced approximately 26.72 billion gallons of high-quality water for residential, commercial, and industrial use in thirty-six municipalities. The daily average of water treated and pumped into the distribution system was 73.22 million gallons. The highest single day produced 102.99 million gallons. The amount of water delivered to customers was 16.76 billion gallons. Authorized unbilled consumption such as plant processes, flushing water mains, equipment and hydrant testing and fighting fires accounted for 339.33 million gallons. Meter inaccuracies, unauthorized consumption and known leaks accounted for 1217.9 million gallons. Losses due to unknown transmission and distribution leaks, services leaks and tank leakage and overflows account for 8.4 billion gallons. In 2023, residential water customers paid \$4.26/1000 gallons. The 2023 residential average customer bill was \$85.08 per quarter or \$340.32 for the year.

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, lead and copper, volatile organic compounds, total trihalomethanes, haloacetic acids, radiological and synthetic organic compounds. The table presented below 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 concentration of these contaminants does not change frequently. Some of our data, though representative, are more than one year old. The sample date is directly noted.

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 @ 1-800-426-4791 or the Erie County Health Department @ 716-961-6800.

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



DETECTED CONTAMINANTS

CONTAMINANT	VIOLATION YES/NO	DATE OF SAMPLE	LEVEL DETECTED (Avg/Max); (Range)	UNIT MEASUREMENT	MCLG	REGULATORY LIMIT (MCL, TT OR AL)	LIKELY SOURCE OF CONTAMINATION
Inorganic Contaminants & Physical Tests							
Barium	No	10/19/23	0.0189-0.0198 mg/L; Average=0.0194mg/L	mg/L	2.0 mg/L	2.0 mg/L	Erosion of natural deposits; discharge of drilling wastes; discharge from metal refineries.
Chloride	No	1/23	15.5-26.8 mg/L; Average=18.8 mg/L	mg/L	NE	250 mg/L	Naturally occurring or indicative of road salt contamination
Chlorine	No	11/23	0.62-1.86 mg/L; Average=1.41 mg/L	mg/L	NA	MRDL=4.0 mg/L	Added for disinfection.
Copper ²	No	08/23	ND-118 ug/L; 90 th percentile=31.5 ug/L, 0 of 106 above AL	ug/L	1300 ug/L	AL=1300 ug/L	Corrosions of home plumbing systems; natural erosion; leaching from wood preservatives
Fluoride	No	4/23	0.44-1.06 mg/L; Average=0.65 mg/L	mg/L	NA	2.2 mg/L	Erosion of natural deposits; water additive that promotes strong teeth; discharge from aluminum and fertilizer facilities.
Lead ³	No	07/23	ND-31.0 ug/L; 90 th percentile =8.4 ug/L, 4 of 106 above AL	ug/L	0 ug/L	AL=15 ug/L	Home plumbing corrosion; natural erosion.
Nickel	No	10/19/23	0.79-0.80 ug/L. Average=0.80 ug/L	ug/L	NE	NR	Nickel enters ground water and surface water by dissolution of rocks and soils, from atmospheric fall out; from biological decay and from waste disposal.
Nitrates	No	7/31/23	0.11-0.13 mg/L Average = 0.12 mg/L	mg/L	10 mg/L	10 mg/L	Nitrates are naturally present in soils, water, air, and plants. Other sources are fertilizer and sewage runoff.
Manganese	No	11/23	0.0-2.04 ug/L; Average=0.45 ug/L	ug/L	NE	NR	Naturally occurring, indication of landfill contamination.
pH	No	3/23	7.04-8.44; Average=7.97	SU	NE	NR	Naturally occurring; adjusted for corrosion control.
Distribution System Turbidity	No	1/23	0.10-0.70 NTU; Average=0.19 NTU	NTU	NA	TT =<5 NTU	Soil runoff
Entry Point Turbidity ¹	No	3/5/23	0.187 NTU highest level detected; Lowest monthly % <0.30 NTU=100%	NTU	NA	TT=95% of samples <= 0.30 NTU	Soil runoff
Total Organic Carbon	No	5/23	1.69-2.10 mg/L; Average =1.89 mg/L	mg/L	NA	TT	Naturally occurring in the environment
Disinfection By-products							
Total Trihalomethanes	No	8/22/23	17-72 ug/L; LRAA = 56 ⁴	ug/L	NE	LRAA = 80	By-product of water disinfection (chlorination)
Total Haloacetic Acids	No	8/22/23	8-59 ug/L; LRAA = 41 ⁴	ug/L	NE	LRAA = 60	By-product of water disinfection (chlorination)
Radiological Contaminants							
Radium 228	No	7/19	ND	pCi/L	NE	NE	Erosion of natural deposits.
Combined Radium 226/228	No	7/19	ND	pCi/L	0	5.0	Erosion of natural deposits.

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



1 – Turbidity is a measure of the cloudiness of the water. We test it because it is a good indicator of the effectiveness of our filtration system. State regulations require that turbidity must always be below 1 NTU in the combined filter effluent. The regulations require that 95% of the entry point turbidity samples collected have measurements below 0.3 NTU. Our highest single system turbidity measurement, 0.187 NTU, for the year occurred in March 2023.

2 – The level presented represents the 90th percentile of the 106 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, 106 samples were collected at your water system and the 90th percentile value was the twelfth highest sample at 32 ug/L. The second highest sample from 90th percentile was the ninth highest with a value of 35 ug/L. The action level for copper was not exceeded at any of the sites tested.

3 - The 90th percentile value of lead was the twelfth highest sample at 8.4 ug/L. The second highest sample from the 90th percentile was the eleventh highest with a value of 9.1 ug/L. The action limit for lead was exceeded at 4 of the 106 sites tested.

4 – This level represents the highest locational running annual average calculated from data collected.

Definitions and Abbreviations:

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 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 contamination.

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

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

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

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

Milligrams per liter (mg/l): Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l): Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Nanograms per liter (ng/l): Corresponds to one part of liquid in one trillion parts of liquid (parts per trillion - ppt).

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

AL = Action Level: The concentration of the highest contaminant

LRAA = Locational Running Annual Average

ND = Not Detected: Laboratory analysis indicates the constituent is not present

NE = Not Established **NR** = Not Regulated

NA = Not Applicable **SU** = Standard Units

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



WHAT DOES THIS INFORMATION MEAN?

As you can see from the table, our system had no violations. We have learned through our testing that some contaminants have been detected; however, these contaminants were detected below the level allowed by the State. It should be noted that the action level for lead was exceeded in four homes, meaning the concentration was greater than 15 ppb. We are required to present the following information on lead in drinking water: 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 Erie County Water Authority is responsible for providing high quality drinking water and 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 certified to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact the ECWA Water Quality Laboratory's Director of Water Quality at 716-685-8574. 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>.

IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?

During 2023, our system was in compliance with applicable State drinking water operating, monitoring, and reporting requirements.

INFORMATION ON RADON

Radon is a naturally occurring radioactive gas found in soil and outdoor air that may also be found in drinking water and indoor air. Some people exposed to elevated radon levels over many years in drinking water may have an increased risk of getting cancer. The main risk is lung cancer from radon entering indoor air from soil under homes.

In 2019, we collected a sample from each water treatment plant that were analyzed for radon. The results showed no detection of the radiological parameters. For additional information call your state radon program (1-800-458-1158) or call EPA's Radon Hotline (1-800-SOS-Radon).

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 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

INFORMATION ON FLUORIDE ADDITION

Our system is one of the many drinking water systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. According to the United States Centers for Disease Control, fluoride is highly effective in preventing cavities when present in drinking water at a properly controlled level. To ensure that the fluoride supplement in your water provides optimal dental protection, we monitor fluoride levels daily to make sure fluoride is maintained at a target level of 0.7 mg/L. During 2023, monitoring showed that fluoride levels in your water were within 0.2 mg/l of the target level for 99% of the time. During 2023, fluoride application was online, except during the following days due to supply issues: @ Sturgeon Point WTP, fluoride was not added 01/02/2023 – 01/11/2023 and @ Van de Water WTP, fluoride was not added 1/02/2023 – 1/11/2023.

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



INFORMATION ON UNREGULATED CONTAMINANTS

COMPOUNDS TESTED BUT NOT DETECTED				
Arsenic	Alachlor	Di-n-butyl phthalate	Metribuzin	Radium 226
4-Androstene-3,17-dione	Aldicarb	Di(2-ethylhexyl) adipate	Oxamyl (Vydate)	1,1-Dichloroethylene
Baygon	Aldicarb Sulfone	1,2-Dibromo-3-chloropropane	Oxyfluorfin	cis-1,2-Dichloroethylene
2-Chlorotoluene	Aldicarb Sulfoxide	Dibromomethane	PCB 1016	trans-1,2-Dichloroethylene
4-Chlorotoluene	Aldrin	Dicamba	PFDA	1,2-Dichloropropane
17beta-Estradiol	alpha -BHC	Dichlorodifluoromethane	PFDoA	1,3-Dichloropropane
17alpha-Ethynyl estradiol	Anatoxin-a	Dieldrin	PFHxA	2,2-Dichloropropane
2,4-D	Asbestos	Isopropylbenzene	PFTA	1,1-Dichloropropene
1,3 Butadiene	Atrazine	p-Isopropyltoluene	PFTTrDA	cis-1,3-Dichloropropene
1,2-Dichlorobenzene	Benzene	Lindane	PFUnA	trans-1,3-Dichloropropene
1,3-Dichlorobenzene	Benzo(a)pyrene	Mercury	Permethrin	1,4-Dioxane
1,4-Dichlorobenzene	Chlorpyrifos	Methiocarb	Pichloram	3-Hydroxycarbofuran
1,1-Dichloroethane	Chromium, Total	Methomyl	Profenofos	2,3,7,8-TCDD (Dioxin)
1,2-Dichloroethane	Cobalt	Methoxychlor	Propachlor	2,4,5-TP (Silvex)
1,2,3-Trichloropropane	Cyanide	MTBE	Propylene Glycol	1,1,1,2-Tetrachloroethane
1,2,4-Trimethylbenzene	Cylindrospermopsin	Methylene Chloride	n-Propylbenzene	1,1,2,2-Tetrachloroethane
1,3,5-Trimethylbenzene	Dalapon	Metolachlor	Quinoline	1,2,3-Trichlorobenzene
Chlordane	Heptachlor	9CL-PF30NS	Xylenes (o,m and p)	Chlorobenzene
1,2,4-Trichlorobenzene	Di-Chlorodifluoromethane	Hexachlorobenzene	N-E-t-FOSAA	Heptachlor Epoxide

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



COMPOUNDS TESTED BUT NOT DETECTED

1,1,1-Trichloroethane	Carbon Tetrachloride	Glyphosate	Perfluorodecanoic acid	o-Toluidine
1,1,2-Trichloroethane	Chloroethane	Gross Alpha Particles	Perfluoroheptanoic acid	Total Mircocystin
Beryllium	Chloromethane	Gross Beta Particles	Perfluorohexanesulfonic acid	Toxaphene
Bromide	Dimethipin	Hexachlorobutadiene	Perfluoronanoic acid	Tribufos
Bromobenzene	Dinoseb	Hexachlorocyclopentadiene	Perfluorooctane sulfonate	Trichloroethylene
Bromochloromethane	Diquat	PCB 1221	Perfluorooctanoic acid	Trichlorofluoromethane
Bromomethane	Endothall	PCB 1232	11Cl-PF3OUDS	Vinyl Chloride
Butachlor	Endrin	PCB 1242	ADONA	
Butylated hydroxyanisole	Equillin	PCB 1248	Selenium	
n-Butylbenzene	Estriol	PCB 1254	Simazine	
sec-Butylbenzene	Estrone	PCB 1260	Styrene	
t-Butylbenzene	Ethoprop	N-MeFOSAA	Tebuconazole	
Cadmium	Ethylbenzene	HFPO-DA	Tetrachloroethylene	
Carbaryl	Ethylene Dibromide (EDB)	Pentachlorophenol	Thallium	
Carbofuran	GenX	Perfluorobutanesulfonic acid	Toluene	

UNREGULATED PERFLUOROALKYL SUBSTANCES DETECTED

CONTAMINANT	VIOLATION	DATE OF SAMPLE	LEVEL DETECTED	UNIT MEASUREMENT	MCLG OR HEALTH ADVISORY LEVEL
Perfluorobutanoic Acid (PFBA) ¹	No	10/2/2023	2.0	ng	NA

1- Unregulated perfluoroalkyl substance detected as part of ECWA's quarterly sampling for regulatory PFAS/PFOA testing for the New York State Department of Health.

USEPA Health Advisory Levels identify the concentration of a contaminant in drinking water at which adverse health effects and/or aesthetic effects are not anticipated to occur over specific exposure durations. Health Advisory Levels are not to be construed as legally enforceable federal standards and are subject to change as new information becomes available. The Maximum Contaminant Level Goal (MCLG) is 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.

Nanograms per liter (ng/L): Corresponds to one part of liquid in one trillion parts of liquid (parts per trillion - ppt).

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



WHY SAVE WATER AND HOW TO AVOID WASTING IT

The Erie County Water Authority encourages water conservation. Although Lake Erie and the Niagara River are a good supply of water, it must not be wasted. Our system has an adequate amount of water to meet present and future demands; however, there are several reasons why it is important to conserve water:

- ✦ Saving water saves energy to process and deliver it to homes, businesses, and farms and in turn, helps preserve the environment.
- ✦ Saving water reduces the cost of energy required to pump water and the need to construct costly new wells, pumping systems and water towers; and
- ✦ Saving water lessens the strain on the water system during a dry spell or drought, helping to avoid severe water use restrictions so that essential firefighting needs are met.
- ✦ Hydro-electric power requires water for its production.
- ✦ The planet is causing more water to evaporate as temperatures increase and droughts become all too common in some parts of the US and the World.

You can play a role in conserving water by becoming conscious of the amount of water your household is using, and by looking for ways to use less whenever you can. It is not hard to conserve water. Conservation tips include:

- ✦ Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. So, get a run for your money and load it to capacity.
- ✦ Take showers instead of baths and take shorter showers.
- ✦ Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.
- ✦ Check your toilets for leaks by putting a few drops of food coloring in the tank, watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to one hundred gallons a day from one of these otherwise invisible toilet leaks.
- ✦ Use your water meter to detect hidden leaks. Simply turn off all taps and water using appliances, then check the meter after 15 minutes. If it moved, you have a leak.
- ✦ Practice smart lawn watering and plant native species in your garden.
- ✦ Use less water when doing laundry.

SYSTEM IMPROVEMENTS

ECWA spent 48.4 million dollars in system-wide infrastructure upgrades including:

- ✦ Sturgeon Point Filter Gallery Piping Replacement - \$7,038,379
- ✦ Sturgeon Point Sedimentation Basin Effluent Valve Replacement and Automation - \$118,749
- ✦ Sturgeon Point Wash Water Tank Replacement - \$342,725
- ✦ Sturgeon Point Transmission Main Condition Assessment - \$363,269
- ✦ Van de Water Residuals Handling Improvements - \$2,669,778
- ✦ Van de Water Raw Water Transmission Main - \$261,264
- ✦ Corrosion Control Program (Pipe Loop Equipment) - \$288,495
- ✦ LCRR Program Management (Curb Box Replacements) - \$108,489
- ✦ Transmission Main Replacement Project from Van de Water to Ball Pump Station - \$4,703,824
- ✦ Production and Transmission Core and Network Switches - \$151,367
- ✦ Pump VFD Upgrades (Sturgeon Point, Van de Water, Colvin) - \$473,663
- ✦ Pump Station Pump, Valve and Chlorination System Replacement (Various Locations) - \$263,340
- ✦ Various UPS, Communications and SCADA Equipment Upgrades - \$119,589
- ✦ Guenther Pump Station Rehabilitation Project - \$268,706
- ✦ Newstead Pump Station Improvement Project - \$973,840
- ✦ Center Street Betterment Project partnered with Erie County (City of Lackawanna) - \$1,092,131
- ✦ Waterline Replacement (Towns of Hamburg, West Seneca, and City of Lackawanna) - \$6,683,298
- ✦ Waterline Replacement (Towns of Hamburg, West Seneca, Cheektowaga, and Village of Depew) - \$2,901,631
- ✦ Waterline Replacement (Towns of West Seneca, Cheektowaga, and Village of Depew) - \$211,335
- ✦ Waterline Replacement (Towns of West Seneca and Cheektowaga) - \$663,555
- ✦ Waterline Replacement (Town of Hamburg and City of Lackawanna) - \$321,118
- ✦ Waterline Replacement (City of Tonawanda) - \$2,720,464

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



- ✦ Waterline Replacement (Town of Amherst) - \$6,572,952
- ✦ Waterline Replacement (Town of Amherst) - \$1,369,197
- ✦ Waterline Replacement (Town of Hamburg) - \$1,478,438
- ✦ Waterline Replacement (Town of Hamburg) - \$418,991

AREAS SERVED

PUBLIC WATER SUPPLY NAME	PWS ID	POPULATION
ECWA Direct	NY1400443	311,527
ECWA Amherst	NY1400399	91,733
ECWA Boston	NY1421897	7,416
ECWA Evans	NY1400445	12,754
ECWA Hamburg Village	NY1400515	6,984
ECWA Lancaster	NY1400421	28,940
ECWA Newstead	NY1422651	5,801
ECWA Orchard Park	NY1421762	25,265
ECWA West Seneca	NY1404543	24,007

CLOSING

Thank you for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers help us protect our water sources, which are the heart of our community.

For additional or large print copies of this report, please call 716-849-8444, or visit www.ecwa.org or email your request to questionscomments@ecwa.org.

2023 ANNUAL WATER QUALITY REPORT

ERIE COUNTY WATER AUTHORITY



New York State Department of Health Source Water Assessment

The New York State Department of Health completed a draft Source Water Assessment of the supply's raw water sources under the state's Source Water Assessment Program (SWAP). The purpose of this program is to compile, organize, and evaluate information regarding possible and actual threats to the quality of public water supply (PWS) sources. It is important to note that source water assessment reports estimate the potential for untreated drinking water sources to be impacted by contamination. These reports do not address the safety or quality of treated finished potable tap water. The Great Lakes' watershed is exceptionally large and too big for a detailed evaluation in the SWAP. General drinking water concerns for public water supplies, which use these sources include storm generated turbidity, wastewater, toxic sediments, shipping related spills, and problems associated with exotic species (e.g., zebra mussels – intake clogging and taste and odor problems). The SWAP is based on the analysis of the contaminant inventory compiled for the drainage areas deemed most likely to impact drinking water quality at this public water supply's raw water intakes. Separate assessments were completed for the Lake Erie source and the Niagara River source. The assessment found a moderate susceptibility to contamination for the Lake Erie source. The amount of agricultural land in the assessment area results in elevated potential of disinfection byproduct precursors and pesticides contamination. While there are some facilities present, permitted discharges do not likely represent an important threat to source water quality based on their density in the assessment area. There is also noteworthy contamination susceptibility associated with other discrete contaminant sources, and these facility types include: landfills. The assessment found an elevated susceptibility to contamination for the Niagara River source. The amount of agricultural (and to a lesser extent residential) lands in the assessment area results in elevated potential for microbials, disinfection byproduct precursors, and pesticides contamination. There is also a high density of sanitary wastewater discharges, which results in elevated susceptibility for all contaminant categories. Non-sanitary wastewater discharges may also contribute to contamination. There is also considerable contamination susceptibility associated with other discrete contaminant sources, and these facility types include: chemical bulk storage, inactive hazardous waste sites, landfills, Resource Conservation and Recovery Act facilities and Toxics Release Inventory facilities. If you have any questions about New York State's Source Water Assessment Program, please contact the Director of Environmental Health, Erie County Health Department at (716) 961-6800.



The seal of the Partnership for Safewater as seen on this document indicates that we are part of a select group of water systems nationwide who have voluntarily committed themselves toward an initiative-taking approach to strengthen the safety of drinking water for our customers above and beyond the current regulatory requirements. For additional information on the Partnership for Safewater visit www.awwa.org/science/partnership.