

2022 Consumer Confidence Report for Public Water System ESQUIRE ESTATES II

This is your water quality report for January 1 to December 31, 2022

For more information regarding this report contact:

ESQUIRE ESTATES II provides surface water from Cedar Creek Reservoir, located in Henderson County

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Definitions and Abbreviations

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The following tables contain scientific terms and measures, some of which may require explanation.

Action Level:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Avg:

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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.

Maximum Contaminant Level or 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 or 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 or 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 or 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.

MFL

million fibers per liter (a measure of asbestos)

mrem:

millirems per year (a measure of radiation absorbed by the body)

na:

not applicable.

NTU

nephelometric turbidity units (a measure of turbidity)

pCi/L

picocuries per liter (a measure of radioactivity)

ppb:

micrograms per liter or parts per billion

ppm:

milligrams per liter or parts per million

ppq

parts per quadrillion, or picograms per liter (pg/L)

ppt

parts per trillion, or nanograms per liter (ng/L)

Treatment Technique or TT:

A required process intended to reduce the level of a contaminant in drinking water.

Information about your Drinking Water

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.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

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 storm water 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 storm water 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 storm water 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 prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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>.

Information about Source Water

ESQUIRE ESTATES II purchases water from CAROLYNN ESTATES. CAROLYNN ESTATES provides purchase surface water from Cedar Creek Reservoir, located in Henderson County.

Contaminant	Year	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Units	Source of Constituent
Barium	2022	0.057	.057	.057	2	2	ppm	Discharge of drilling wastes;discharge of metal refineries;erosion of natural deposits.
Cyanide	2022	76.7	76.7	76.7	200	200	ppb	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	2022	0.071	0.071	0.071	4	4	ppm	Erosion of natural deposits.water additive which promotes strong teeth; discharde from fertilizer and aluminum factoriws
Nitrate	2022	0.036	0.036	0.036	10	10	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Dibromochloromethane	2022	3.63	3.63	3.63	None Established	None Established	ppb	Byproduct of drinking water disinfection
Chloroform	2022	22.9	22.29	22.9	None Established	None Established	ppb	Byproduct of drinking water disinfection
Bromodichloromethane	2022	13.1	13.1	13.1	None Established	None Established	ppb	
Contaminant	Year	Average Level	Minimum Level	Maximum Level	Limit	Units	Source of Constituent	
Aluminum	2022	.014	.014	.014	.2	ppm	Naturally occurring element	
Calcium	2022	19.1	19.1	19.1	NA	ppm	Naturally occurring element	
Chloride	2022	23.9	23.9	23.9	300	ppm	Naturally occurring element;used in water purification; byproduct of oilfield activity	
Sodium	2022	22.0	22.0	22.0	NA	ppm	Naturally occurring element	
Sulfate	2022	57.9	57.9	57.9	300	ppm	Naturally occurring element; byproduct of oilfield activity	
Magnesium	2022	3.76	3.76	3.76	NA	ppm	Naturally occurring element	
Contaminant	Year	Average Level	Minimum Level	Maximum Level	Limit	Units	Source of Constituent	

Manganese	2021	0.005	0.005	0.005	0.05	ppm	Naturally occurring element
Hardness	2021	61.4	61.4	61.4	NA	ppm	Naturally occurring calcium and magnesium
Zinc	2022	.006	.006	.006	5	ppm	Moderately abundant naturally occurring element; used in the metal industry
Total Alkalinity as CaCO3	2022	36	36	36	NA	ppm	Naturally occurring soluble mineral salts
Total Hardness as CaCO3	2022	63.1	63.1	63.1	NA	Ppm	Naturally occurring calcium
Combined Radium226 &228	2021	1.5	1.5	1.5	5	pCi/L	Erosion of natural deposits

Contaminant	Year	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Units	Source of Constituent
Atrazine	2021	.01	.01	.01	3	3	ppb	Runoff from herbicide used on row crops. Discharge from rubber and chemical factories.
Contaminant	Year	High	Lowest Monthly % of Samples Meeting Limits	MCL	MCLG	Units	Source of Constituent	
Turbidity	2022	0.8	100%	0.3	NA	NTU	Soil run off	
Total Dissolved Solids	2022	168	168	168	100	Ppm	Total dissolved mineral constituents in water	

TCEQ completed a Source Water Susceptibility for all drinking water systems that own their sources. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system(s) from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact Lakeshore Utility at 903-675-4316.

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	1		0	N	Naturally present in the environment.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2022	1.3	1.3	0.074	0	ppm	Y	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems

2022 Water Quality Test Results

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2022	48	14.2 - 45.3	No goal for the total	60	ppb	N	By-product of drinking water disinfection.

*The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2022	70	22.4 - 71	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
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*The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Nitrate [measured as Nitrogen]	2022	0.275	0.275 - 0.275	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Disinfectant Residual

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation (Y/N)	Source in Drinking Water
Chloramines	2022	2.1	2.1-2.2	4	4	ppm	N	Water additive used to control microbes.

Violations

Lead and Copper Rule			
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.			
Violation Type	Violation Begin	Violation End	Violation Explanation
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	01/01/2020	01/07/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	07/01/2020	01/07/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
FOLLOW-UP OR ROUTINE TAP M/R (LCR)	01/01/2021	01/07/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
INITIAL/FOLLOW-UP/ROUTINE SOWT M/R (LCR)	01/01/2022	06/30/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
LEAD CONSUMER NOTICE (LCR)	09/29/2022	10/28/2022	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.
OCCT/SOWT RECOMMENDATION/STUDY (LCR)	06/30/2022	2022	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.
OCCT/SOWT RECOMMENDATION/STUDY (LCR)	07/01/2022	2022	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.
OCCT/SOWT RECOMMENDATION/STUDY (LCR)	07/02/2022	2022	We failed to propose treatment to our regulator in response to results that indicate our water needs treatment to reduce lead and/or copper levels.
WATER QUALITY PARAMETER M/R (LCR)	07/01/2022	12/31/2022	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.

Public Notification Rule			
The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).			
Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	08/28/2022	10/11/2022	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

