Some or all of these definitions may be found in this report:

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 using the best available treatment technology.

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 contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, $(\mu g/L)$. One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

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

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

North Nelson Water District





Water System ID: KY0900323 General Manager: Colin S. Cissell 502-348-8342 CCR Contact: Colin S. Cissell 502-348-8342 northnelsonwaterdistrict@yahoo.com

Mailing address: P.O. Box 25 Cox's Creek, KY 40013

Meeting location and time: 5555 Louisville Rd, Cox's Creek, KY Third Monday each month at 7:00 PM This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Water Purchased From Bardstown

(serves most of northern Nelson County) Bardstown treats surface water from Sympson Lake. Areas of high concern consist of row crops, bridges and culverts, urban and recreational grasses, an airport and an active landfill. The potential for hazardous material accidentally spilling into the water source gives these sites the Susceptibility Ranking of High. However, the overall Susceptibility Ranking for Bardstown's water source is Moderate. The completed plan is available for inspection at the Lincoln Trail Area Development District in Elizabethtown, KY.

Water Purchased From Louisville

(Crescent Hill TPA serves Bullitt County, Spencer County, and extreme northern Nelson County) LWC treats surface water from the Ohio River. A Source Water Assessment Plan for Jefferson County identified spills of hazardous materials and permitted discharges of sanitary sewers as the highest contamination risks. In Jefferson County, land use in the protection area is primarily zoned for residential and commercial use, with only a few industrial sites. In Oldham and Trimble Counties land use is primarily zoned for residential and agricultural use. Therefore source water contamination risks are relatively low. To view the entire Source Water Assessment and Protection Plan contact Jeremy Raney at 502-569-3600 x2328.

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 may be obtained by calling the Environmental Protection Agency's 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 may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides. (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). 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. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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. Your local public water system 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 or at http://www.epa.gov/safewater/lead.

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Copies of this report are available upon request by contacting our office during business hours.

Regulated Contamina	nt Test R	esults	North Nels	on Wat	er Di	strict			
Contaminant			Report	Range of Detection		Date of	Violation	Likely Source of	
[code] (units)	MCL	MCLG	Level			Sample		Contamination	
Chloramines	MRDL	MRDLG	2.38						Water additive used to control
(ppm)	= 4	=4	(highest	0.2	to	3.4	2019	No	microbes.
			average)						
HAA (ppb) (Stage 2)			44						
[Haloacetic acids]	60	N/A	(high site	8	to	60	2019	No	Byproduct of drinking water disinfection
			average)	(range o	ofindiv	idual sites)			
TTHM (ppb) (Stage 2)			51						D 1 . (111) .
[total trihalomethanes]	80	N/A	(high site	9.5	to	69.2	2019	No	Byproduct of drinking water disinfection.
			average)	(range o	ofindiv	idual sites)			
Household Plumbing	Contami	nants							
Copper [1022] (ppm)	AL=		0.07						
sites exceeding action level	1.3	1.3	(90 th	0	to	0.22	Oct-19	No	Corrosion of household plumbing systems
0			percentile)						systems
Lead [1030] (ppb)	AL=		0						
sites exceeding action level	15	0	(90 th	0	to	9	Oct-19	No	Corrosion of household plumbing systems
0			percentile)						systems

Unregulated Contaminants (UCMR 4)	average	ra	date		
Manganese	1.425	0.4	to	2.2	Dec-19
HAA5	29.750	22	to	50	Dec-19
HAA6Br	7.900	4.7	to	11	Dec-19
HAA9	37.125	26	to	56	Dec-19

Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours.

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.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct one Level 1 assessment. One Level 1 assessment was completed. In addition, we were required to take two corrective actions and we completed two of these actions.

Contaminant		MCLG	Source	Report	Range		Date of	Violation	Likely Source of	
[code] (units)	MCL			Level	G	of Det	ection	Sample		Contamination
Combined radium	5	0								
(pCi/L)			В	1.4	1.4	to	1.4	2019	No	Erosion of natural deposits
Barium										Drilling wastes; metal refineries;
[1010] (ppm)	2	2	В	0.02	0.02	to	0.02	2019	No	erosion of natural deposits
Fluoride			L	0.6	0.6	to	0.6			Water additive which promotes strong teeth
[1025] (ppm)	4	4	В	0.7	0.7	to	0.7	2019	No	
Nitrate			L	1.1	0.9	to	1.1			Fertilizer runoff; leaching from
[1040] (ppm)	10	10	В	1.1	1.1	to	1.1	2019	No	septic tanks, sewage; erosion o natural deposits
Atrazine										Runoff from herbicide used on
[2050] (ppb)	3	3	В	0.4	0.4	to	0.4	2019	No	row crops
Total Organic Carbon (ppm)			L	1.47	1.00	to	2.23			
(report level=lowest avg.	TT*	N/A	В	2.06	-0.83	to	3.49	2019	No	Naturally present in environment
range of monthly ratios)										
*Monthly ratio is the % TOC r	emoval achi	eved to the %	5 TOC	removal req	uired. Anr	nual a	verage must b	e 1.00 or great	er for compli	ance.
Other Constituents									T	
Turbidity (NTU) TT	Allowable Levels		Highest S		ingle		Lowest	Violation		
* Representative samples			S0	Measure	Measurement		Monthly %			Likely Source of Turbidity
Turbidity is a measure of the	No more th	e than 1 NTU*			0.07					
clarity of the water and not a contaminant.	Less than 0.3 NTU in		в		0.3		100	No		Soil runoff
contanilliditt.	95% month	ly samples								



This report will not be mailed unless requested. Additional copies will be available during normal business hours. Please call our office if you have any questions.