

Village Of Malcolm

Annual Water Quality Report For January 1 to December 31, 2022

This report is intended to provide you with important information about your drinking water and the efforts made by the Village Of Malcolm water system to provide safe drinking water.

Para Clientes Que Hablan Español; Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

ion regarding this report, or to request a hard copy, contact

DON SCHRADER 308-882-1505

If you would like to observe the decision-making processes that affect drinking water quality, please attend the regularly scheduled meeting of the Village Board/City Council. If you would like to participate in the process, please contact the Village/City Clerk to arrange to be placed on the agenda of the meeting of the Village Board/City Council.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contain nants. 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).

Source Water Assessment Availability: The Nebraska Department of Environment and Energy (NDEE)

has completed the Source Water Assessment. Included in the assessment are a Wellhead Protection Area map, potential contaminant source inventory, and source water protection information. To view the Source Water Assessment or for more information please contact the person named above on this report or the NDEE at 402-471-3376 or go to http://dee.ne.gov

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.

Sources of Drinking Water: The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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

The source of water used by Village Of Malcolm is ground water

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, w 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.

Drinking Water Health Notes:

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 le from the Safe Drinking Water Hotline inants are availab

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. All Community water systems are responsible for providing high quality drinking water but cannot control the variety of mate 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 you 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 (800-426-4791), at http://www.epa.gov/safewater/lead or at the NDEE Drinking Water Division (402-471-1009).

The Village Of Malcolm is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Ninte, Selenium, Sodium, Thallium, Alachior, Atrazine, Benzo(a)pyrene, Carboturan, Chlordane, Dalapon, Di2-ethylhexyladigate, Dibromochloropropane, Dinoseb, Di2-ethylhexyl-phthalate, Diquat, 2,4-D. Endothalt, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenze Hexachlorocyclopentadiene, Lindane, Methoxychior, Oxamyi (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyis, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichloro

Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetra-chloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3-Dichloropropane, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methornyl, Metolach Metribuzin, Propachlor.

How to Read the Water Quality Data Table:
The EPA and State Drinking Water Program establish the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to the regulatory limits. Substances not detected are not included in the table. The state requires monitoring of certain contaminants. less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be older than

one year.

MCL (Maximum Contaminant Level) – The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology. MCLG (Maximum Contaminant Level Goal) – The level of a contaminar in drinking water below which there is no known or expected risk to health MCLGs allow for a margin of safety.

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

must rotow.

MRDL (Maximum Residual Disinfectant Level) – The highest level of a disinfectant allowed in drinking water.

N/A – Not applicable.

Units in the Table: ND - Not detectable.

ND – Not detectable:
ppm (parts per million) – One ppm corresponds to 1 gallon of
concentrate in 1 million gallons of water.
mglL (milligrams per liter) – Equivalent to ppm.
ppb (parts per billion) – One ppb corresponds to 1 gallon of concentrate
in 1 billion gallons of water.
uglL (micrograms per liter) – Equivalent to ppb.
pGIL (Piccouries per liter) – Radioactivity concentration unit.
RAA (Running Annual Average) – An ongoing annual average
calculation of data from the most recent four quarters.
LRAA (Running Annual Average) – An opposition annual

LRAA (Locational Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters at each sampling location.

samping location.

90" Percentile – Represents the highest value found out of 90% of the samples taken in a representative group, if the 90" percentile is greater than the action level, it will trigger a treatment or other requirements that a water system must follow.

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

Village Of Malcolm	TEST RESULTS	Date Printed: 3/8/2023	NE3110923
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Microbiological	Hig	hest No. of	Positi	ve Samples	amples MCL					M	CLG	Likely	Source of	Contamination	Violations Present	
No Detected Results	were Fo	und in the C	alenda	ar Year of 20	22											
Lead and Copper		Monitoring 9 Period 9		90th Percentile		Range		AL	Sites Ov	Over Li		Likely Source of Contamination				
COPPER, FREE	2019 - 2021		0.337		0.0251 - 0.396		ppm	1.3	0		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.			preservatives;		
LEAD	2019 - 2021		0.29 0 -		0 - 0.58		ppb	15	0		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.			preservatives;		
		Highest Value	Range	Unit MCL MCLG L			Likely	Likely Source of Contamination								
ARSENIC 8/31/2021			2.33	2.33		ppb	10	0		Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.						
BARIUM 7/19/2022		:	0.0539	0.0539		ppm	2	2		Discharge from drilling wastes; Discharge from metal refineries; Erosion natural deposits.						
CHROMIUM 7/19/2022				0.628	0.628		ppb	100	100	Disch	Discharge from steel and pulp mills; Erosion of natural deposits.				ral deposits.	
FLUORIDE 7/19/2022 0.41			0.412	0.412 ppm			4	4		Erosion of natural deposits; water additive which promotes strong teeth; Fertilizer discharge.						
Radiological Contaminants Collection			n Date	Highest Value	Range		Unit	MCL	-	MCLG	Likely Source of Contamination		ination			
COMBINED RADIUM (-226 & -228) 4/6/20		4/6/2021		1.387	1.387		pCi/L	5		0	Erosion of natural deposits					
RADIUM-226		-	4/6/2021	1 0.481		0.481		pCi/L			0	Erosion of natural deposits.				
RADIUM-228		4/6/2021	21 0.906		0.906		pCi/L			0		Erosion of natural deposits				
Unregulated Water Quality Data Colle					Collection	ion Date Highest Value			alue	Range			Unit	Secondary MC	L	
SULFATE					6/6/2022	8/6/2022 112				101 - 112			mg/L	250		

During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations.

Violation Type | Category | Analyte

No Violations Occurred in the Calendar Year of 2022 Compliance Period

The Village Of Malcolm has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act:

There are no additional required health effects notices.

There are no additional required health effects violation notices.