

# Washington Co Rural Water 1

# Annual Water Quality Report For January 1 to December 31, 2021

This report is intended to provide you with important information about your drinking water and the efforts made by the Washington Co Rural Water 1 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.

For more information regarding this report, or to request a hard copy, contact:

# KYLE WINN 402-505-0000

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 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).

## 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 Washington Co Rural Water 1 is purchased surface water. Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided above

Buyer Name	Seller Name
Washington Co Rural	Metropolitan Utilities
Water 1	District

#### 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.

## **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 contaminants are available from the Safe Drinking Water Hotline (800-426-4791) or the NDEE Drinking Water Division at 402-471-2186.

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 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 you water tested. Information on lead in drinking water, testing methods, and steps vou 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 (402-471-1008).

The Washington Co Rural Water 1 is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)phthalate, Diguat, 2,4-D, Endothall, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichlorobenzene, Para-Dichlorobenzene, 1,2-Dichlorethane, 1,1-Dichloroethylene, Cis-1,2,-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Styrene, Tetrachloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Uranium & Radium 226), Radium 226 plus Radium 228. Sulfate, Chloroform, Bromodichloromethane, Chlorodibromomethane, Bromoform, Chlorobenzene, m-Dichlorobenzene, 1,1-Dichloropropene, 1,1-Dichloroethane, 1,1,2,2-Tetrachlorethane, 1,2-Dichloropropane, Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetrachloroethane, Chloroethane, 2.2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3-Dichloropropene, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor, 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 MCLGs as feasible using the best available treatment technology. MCLG (Maximum Contaminant Level Goal) - 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. AL (Action Level) - The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system must follow.

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.

**ppm (parts per million) –** One ppm corresponds to 1 gallon of concentrate in 1 million gallons of water.

mg/L (milligrams per liter) - Equivalent to ppm.

**ppb (parts per billion) –** One ppb corresponds to 1 gallon of concentrate in 1 billion gallons of water.

ug/L (micrograms per liter) - Equivalent to ppb.

pCi/L (Picocuries per liter) – Radioactivity concentration unit. RAA (Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters.

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

90<sup>th</sup> Percentile – Represents the highest value found out of 90% of the samples taken in a representative group. If the 90<sup>th</sup> 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.

Washington Co Rural Water 1					TEST RESULTS					Date Printed: 3/23/2022 NE31200						
Microbiological	Highest No. c	of Positive Samp	es	MCL					MCLG	Likelv	Source	e Of Conta	mination	Violati	ons Present	
No Detected Results v																
Lead and Copper	Monitoring Period	90 <sup>th</sup> Percenti	e Range	Range		AL	Sites Over AL		Likely Source Of Contamination							
COPPER, FREE	2019 - 2021	2021 0.0276		0.0037 - 0.0429		1.3	0		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.							
LEAD	2019 - 2021 0.691		0 - 0.7	0 - 0.721		15	0		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.							
Disinfection Byproducts		Monitoring Period		Highest RAA	Range		Unit		CL	MCLG	Likely Source Of Contamination					
TOTAL HALOACETIC ACIDS (HAA5)			1/1/2021 - 12/31/2021		16.2 - 3				)				r-product of drinking water disinfection.			
ТТНМ		4/1/2020 - 3	3/31/2021	42.9	29.9 - 5	59.6	ppb	80	)	0	By-	product of c	Irinking wate	er disinfecti	on.	
uring the 2021 calen	dar year, we had	the below noted	violation(s	s) of drinkin	g water reg	gulations.										
Violation Type			Catego	ry	Ana	lyte						Co	mpliance Pe	eriod		
No Violations Occurre																
e Washington Co R	urai water i nas	laken the follow	ing actions		Compliant	ce with the	Nepras	na Jan		ig water A	<u>CI.</u>					
Regulated Contaminants	8/30/2021		Water System Metropolitan Utilities District		Highest Value Range Unit		MCL	MCLG	Likel	ly Source (	Of Contamir	nation				
								ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder					
ANTIMONY, TOTAL	8/30/2021		•	ilities	0.604	0 - 0.604	1	ppb	6	6					e retardants;	
,	8/30/2021 8/30/2021	Dis	rict ropolitan Ut		0.604 4.54	0 - 0.604 0 - 4.54		ppb ppb	6 10	6 0	cerar Erosi runof	mics; electro ion of natur if from glass	onics; solder al deposits; s and electro	r runoff from onics produ	orchards; ction wastes.	
ARSENIC		Dis Met Dis Met Dis	rict ropolitan Ut rict ropolitan Ut rict	ilities ilities						_	cerar Erosi runof Disch	mics; electro ion of natur if from glass narge from	onics; solder al deposits;	r runoff from onics produ es; Dischar	orchards; ction wastes. ge from	
ARSENIC	8/30/2021	Dis Met Dis Met Dis Met Dis	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict	ilities ilities ilities	4.54	0 - 4.54	0.201	ppb	10	0	cerar Erosi runof Disch meta Natur	mics; electri ion of natur if from glass narge from I refineries; rally preser	onics; solder al deposits; <u>s and electro</u> drilling waste <u>Erosion of r</u> it in the envi	r runoff from onics produ es; Dischar natural dep ronment	orchards; ction wastes. ge from osits.	
ARSENIC BARIUM CARBON, TOTAL CHROMIUM	8/30/2021 5/20/2020	Dis Met Dis Met Dis Met Dis	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut	ilities ilities ilities	4.54 0.201	0 - 4.54	0.201	ppb ppm	10	0	cerar Erosi runof Disch meta Natur	mics; electri ion of natur if from glass narge from I refineries; rally preser	onics; solder al deposits; s and electro drilling waste Erosion of r at in the envi steel and pu	r runoff from onics produ es; Dischar natural dep ronment	orchards; ction wastes. ge from osits.	
ARSENIC BARIUM CARBON, TOTAL CHROMIUM COMBINED RADIUM (-226 & -	8/30/2021 5/20/2020 4/12/2021	Dis Met Dis Met Dis Met Dis Met Dis	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict	ilities ilities ilities ilities ilities	4.54 0.201 4.04	0 - 4.54 0.0692 - 0 2.54 - 4.0	0.201   4   3	ppb ppm ppm	10 2	0	cerar Erosi runof Disch meta Natur Disch natur Erosi	nics; electri ion of natur if from glass narge from il refineries; rally preser narge from ral deposits ion of natur	onics; solder al deposits; s and electro drilling waste Erosion of r t in the envi steel and pu al deposits	r runoff from onics produ es; Dischar natural dep ronment Ip mills; Er	orchards; ction wastes ge from osits.	
ARSENIC BARIUM CARBON, TOTAL CHROMIUM COMBINED RADIUM (-226 & - 228)	8/30/2021           5/20/2020           4/12/2021           5/20/2020	Dis Met Dis Met Dis Met Dis Met Dis Met Dis	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict	ilities ilities ilities ilities ilities	4.54 0.201 4.04 1.83	0 - 4.54 0.0692 - 0 2.54 - 4.0 1.25 - 1.8	0.201 4 3	ppb ppm ppm ppb	10 2 100	0 2 100	cerar Erosi runof Disch meta Natur Disch natur Erosi Erosi prom	mics; electri ion of natur if from glass narge from il refineries; rally preser narge from ral deposits ion of natur ion of natur iotes strong	onics; solder al deposits; s and electro drilling waste Erosion of r t in the envi steel and pu al deposits al deposits; t eeth; Fertil	r runoff from onics produ es; Dischar natural dep ronment Ip mills; Er water addit izer discha	orchards; ction wastes. ge from osits. osion of ive which rge.	
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ARSENIC BARIUM CARBON, TOTAL CHROMIUM COMBINED RADIUM (-226 & - 228) FLUORIDE NITRATE-NITRITE SELENIUM Unregulated Water G	8/30/2021         8/30/2021         5/20/2020         4/12/2021         5/20/2020         4/7/2021         5/20/2020         8/4/2021         5/20/2020         8/4/2021         5/20/2020	Dis Met Dis Met Dis Met Dis Met Dis Met Dis Met Dis Met Dis Collection Date	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict <u>ropolitan Ut</u> rict <u>ropolitan Ut</u>	ilities ilities ilities ilities ilities ilities ilities System	4.54         0.201         4.04         1.83         0.175         0.77         2.56         4.73	0 - 4.54 0.0692 - 0 2.54 - 4.0 1.25 - 1.8 0.175 0.258 - 0. 0.311 - 2. 2.61 - 4.7 H	0.201 4 3 77 56 3 <b>Highest</b>	ppb ppm ppm ppb pCi/L ppm ppm	10 2 100 5 4 10 50 <b>R</b>	0 2 100 0 4 10 50 ange	cerar Erosi runof Disch meta Natur Disch natur Erosi Erosi prom Runo tanks	mics; electri ion of natur if from glass narge from I refineries; rally preser narge from ral deposits ion of natur ion of natur otes strong off from ferti s, sewage; I ion of natur Unit	al deposits; s and electro drilling waste Erosion of r it in the envi steel and pu al deposits al deposits; teeth; Fertil lizer use; Le Erosion of n	r runoff from onics produ es; Dischar natural dep ronment Ip mills; Er water addit izer discha eaching fror atural depo	orchards; ction wastes ge from osits. osion of ive which rge. n septic	
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ARSENIC BARIUM CARBON, TOTAL CHROMIUM COMBINED RADIUM (-226 & - 228) FLUORIDE NITRATE-NITRITE SELENIUM Unregulated Water Q ALKALINITY, CARBO MAGNESIUM SULFATE	8/30/2021         8/30/2021         5/20/2020         4/12/2021         5/20/2020         4/7/2021         5/20/2020         8/4/2021         5/20/2020         8/4/2021         5/20/2020         Quality Data         DNATE	Dis           Met           Dis	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u>	ilities ilities ilities ilities ilities ilities ilities <u>System</u> olitan Utilities olitan Utilities	4.54 0.201 4.04 1.83 0.175 0.77 2.56 4.73 District District District	0 - 4.54 0.0692 - 0 2.54 - 4.0 1.25 - 1.8 0.175 0.258 - 0. 0.311 - 2. 2.61 - 4.7 H	0.201 4 3 77 56 3 <b>Highest</b> 218 30.1 71.1	ppb ppm ppm ppb pCi/L ppm ppm ppb Value	10 2 100 5 4 10 50 <b>R</b> 1 1 1 1	0 2 100 0 4 10 50 ange 68 - 218 0.2 - 30.1 0 - 71.1	cerar Erosi runof Disch meta Natur Disch natur Erosi Erosi Erosi	mics; electri ion of natur if from glass narge from I refineries; rally preser narge from ral deposits ion of natur ion of natur otes strong off from ferti s, sewage; I ion of natur <u>Unit</u> mg/L mg/L	al deposits; and electro drilling waste Erosion of r to the envirus steel and pu al deposits al deposits; teeth; Fertil lizer use; Le Erosion of na al deposits	r runoff from onics produ es; Dischar natural dep ronment Ip mills; Er water addit izer discha eaching fror atural depo	orchards; ction wastes ge from osits. osion of ive which rge. n septic	
ARSENIC BARIUM CARBON, TOTAL CHROMIUM COMBINED RADIUM (-226 & - 228) FLUORIDE NITRATE-NITRITE SELENIUM Unregulated Water G ALKALINITY, CARBO MAGNESIUM SULFATE uring the 2021 calen	8/30/2021         8/30/2021         5/20/2020         4/12/2021         5/20/2020         4/7/2021         5/20/2020         8/4/2021         5/20/2020         8/4/2021         5/20/2020         Quality Data         DNATE	Dis           Met           Dis	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u>	ilities ilities ilities ilities ilities ilities ilities <u>System</u> olitan Utilities olitan Utilities	4.54 0.201 4.04 1.83 0.175 0.77 2.56 4.73 District District District	0 - 4.54 0.0692 - 0 2.54 - 4.0 1.25 - 1.8 0.175 0.258 - 0. 0.311 - 2. 2.61 - 4.7 H	0.201 4 3 77 56 3 <b>Highest</b> 218 30.1 71.1	ppb ppm ppm ppb pCi/L ppm ppm ppb Value	10 2 100 5 4 10 50 <b>R</b> 1 1 1 1	0 2 100 0 4 10 50 68 - 218 0.2 - 30.1 0 - 71.1 ng water re	cerar Erosi runof Disch meta Natur Disch natur Erosi Erosi Erosi Erosi Erosi	mics; electri ion of natur if from glass marge from il refineries; rally preser marge from ral deposits ion of natur ion of natur ion of natur off from ferti s, sewage; l ion of natur <u>Unit</u> mg/L mg/L mg/L ions.	al deposits; al deposits; s and electro drilling waste Erosion of r it in the envi steel and pu al deposits al deposits; teeth; Fertil lizer use; Le Erosion of na al deposits <b>Seconda</b> 250	r runoff from onics produ es; Dischar natural dep ronment Ip mills; Er water addit izer discha raching fror atural depo	orchards; ction wastes ge from osits. osion of ive which rge. n septic sits	
ARSENIC BARIUM CARBON, TOTAL CHROMIUM COMBINED RADIUM (-226 & - 228) FLUORIDE NITRATE-NITRITE SELENIUM Unregulated Water G ALKALINITY, CARBO MAGNESIUM SULFATE	8/30/2021         8/30/2021         5/20/2020         4/12/2021         5/20/2020         4/7/2021         5/20/2020         8/4/2021         5/20/2020         8/4/2021         5/20/2020         Quality Data         DNATE	Dis           Met           Dis	rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict ropolitan Ut rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u> rict <u>vopolitan Ut</u>	ilities ilities ilities ilities ilities ilities ilities <u>System</u> olitan Utilities olitan Utilities	4.54 0.201 4.04 1.83 0.175 0.77 2.56 4.73 0.5trict 5 District 5 District m had the l	0 - 4.54 0.0692 - 0 2.54 - 4.0 1.25 - 1.8 0.175 0.258 - 0. 0.311 - 2. 2.61 - 4.7 H	0.201 4 3 77 56 3 <b>Highest</b> 218 30.1 71.1	ppb ppm ppm ppb pCi/L ppm ppm ppb Value	10 2 100 5 4 10 50 <b>R</b> 1 1 1 1	0 2 100 0 4 10 50 68 - 218 0.2 - 30.1 0 - 71.1 ng water re	cerar Erosi runof Disch meta Natur Disch natur Erosi Erosi Erosi	mics; electri ion of natur if from glass marge from il refineries; rally preser marge from ral deposits ion of natur ion of natur ion of natur off from ferti s, sewage; l ion of natur <u>Unit</u> mg/L mg/L mg/L ions.	al deposits; al deposits; s and electro drilling waste Erosion of r it in the envi steel and pu al deposits al deposits; teeth; Fertil lizer use; Le Erosion of na al deposits <b>Seconda</b> 250	r runoff from onics produ es; Dischar natural dep ronment Ip mills; Er water addit izer discha eaching fror atural depo	orchards; ction wastes ge from osits. osion of ive which rge. n septic sits	

There are no additional required health effects notices.

There are no additional required health effects violation notices.