

### City Of Syracuse

## Annual Water Quality Report For January 1 to December 31, 2014

This report is intended to provide you with important information about your drinking water and the efforts made by the City Of Syracuse 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, contact:

#### GARRY D CARMAN 402-269-5078

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 Environmental Quality (NDEQ) has completed the Source Water Assessment. Included in the assessment are a Wellhead Protection Area map, potential contaminant source inventory, vulnerability rating, 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 NDEQ at (402) 471-6988 or go to <a href="https://www.deq.state.ne.us">www.deq.state.ne.us</a>.

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:

I he 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 City Of Syracuse is ground water

# 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 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 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).

Infants, young children, and pregnant women are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested. Flushing your tap for 30 seconds to 2 minutes before using your tap water will clear the line of any lead that may have leached into the water while the line was idle. Additional information is available from the Safe Drinking Water Hotline (800.426.4791) or the DHHS/Division of Public Health/Office of Drinking Water (402.471.2541).

The City Of Syracuse 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(2-ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)phthalate, Diquat, 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-Dichlorothylene, Cis-1,2,-Dichlorothylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloroethylene, 1,2-Dichloroethylene, 1,2-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloroethylene, 1,2-Dichlo

Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4Trichlorobenzene, 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-Dichloropropane, 1,1Dichloroethane, 1,2,2-Tetrachlorethane, 1,2-Dichloropropane,
Chloromethane, Bromomethane, 1,2-Trichloropropane, 1,1,1,2Tetrachloroethane, Chloroethane, 2,2-Dichloropropane, 0Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3Dichloropropene, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3Hydroxycarbofuran, Methomyl, Metolachlor, Metribuzin, Propachlor.

## dow 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 existent must follow.

system must follow.

MRDL (Maximum Residual Disinfectant Level) – The highest level

of a disinfectant allowed in drinking water.

MRDLG (Maximum Residual Disinfectant Level Goal) – The level of disinfectant in drinking water below which there is no known or expected risk to health.

QRAA (Quarterly Running Annual Average) – An ongoing annual average calculation of data from the most recent four quarters. 90th Percentile – Represents the highest value found out of 90% of the samples taken in a representative group. If the 90th percentile is greater than the action level, it will trigger a treatment or other requirements that a water system must follow.

N/A – Not applicable.

#### Units in the Table:

ppm (parts per million) = mg/L (milligrams per liter) - One ppm or one mg/L corresponds to 1 gallon of water in 1,000,000 gallons of water.

ppb (parts per billion) – One ppb corresponds to 1 gallon of water in 1,000,000,000 gallons of water.
pCi/L (Picocuries per liter) – Radioactivity concentration unit

pCi/L (Picocuries per liter) – Radioactivity concentration unit. ug/L (micrograms per liter) – Measurement of radioactivity.

TEST RESULTS

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NE3113104

Microbiological	Highest No.	Highest No. of Positive Samples	amples		MCL			
No Detected Results were Found in the Calendar Year of 2014	ere Found in th	e Calendar Ye	ar of 2014					rively coales of collabilitation Violations Present
Lead and Copper	Monitoring Period	90th Percentile	tile Range		Unit	AL	Sites Over AL	Likely Source Of Contamination
COPPER, FREE	2012 - 2014	0.254	0.033 · 0.814	1	ppm	1.3	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing
LEAD	2012 - 2014	9.21	1.0;	1.02 - 22.4	ppb	15		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.
Regulated Contaminants	ınts Collection Date		st	Range	Unit	MCL	MCLG	Likely Source Of Contamination
ARSENIC	05/21/2013	2013 3.18		3.18	ppb	10	0	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
NITRATE-NITRITE	12/16/2014	2014 7.12		4.54 - 7.12	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

250	ma/L	17.1 - 22.2		22.2		02/04/2013	0		0000
0.1	mg/L	0.00151 - 0.00218	18	0.00218		02/04/2013			SIII EATE
Secondary MCL	Unit	Range	Highest Value	High		Collection Date			NICKEI
						ollockie o			Unregulated Water Quality Data
		ביסטיסיי סי יישנשישי שכףטסונס							
		Frosion of natural denosits	0	S	pCi/L	0.9	0.9	71.07/60/150	10000M-220
		בי ספיפור פי יומימימי מכי מכיוים		-			0	04000000	DADIIM 338
		Frosion of natural denosits	0	Ch	pCi/L	0.1 - 0.5	0.5	71/06/2012	12010INI-220
							,	44 100 100 10	DADIIIM DOG
		Erosion of natural deposits	0	Ŋ	pCi/L	0.5 - 1	_	04/09/2012	228)
									COMBINED BADILIM ( 336 9
	ination	Likely Source Of Contamination	MCLG	MCL	Unit	Kange	Value	Date	. San Signal Containing III.
						,	Highest	Collection	Radiological Contaminants

During the 2014 calendar year, we had the below noted violation(s) of drinking water regulations.

ype lo Violations Occurred ir	
Category n the Calendar Year of 2014	
Analyte	
Compliance Period	

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

# Additional Required Health Effects Language:

Infants and children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4761).