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# Annual Drinking Water Quality Report

MAROA

TL1150300

Annual Water Quality Report for the period of January 1 to December 31, 2019

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

The source of drinking water used by MAROA is Ground Water

For more information regarding this report contact:

Name Nike Hofficani

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

## Source of 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.

Contaminants that may be present in source water include:
- Microbial contaminants, such as viruses and

parteria, 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 haturally-occurring or be the result of oil and gas production and mining activities.

brinking water, including hottled 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 EPAs Safe Drinking Water Ephtline at (800) 426-4791.

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.

some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-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).

If present, elevated levels of lead can cause scrious 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 cannot control the variety of materials used in plumbing components. When you 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 tap for 30 seconds to 2 minutes before using water for thinking 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 prinking water Hotline or at the hittp://www.eps.gov/safewater/lead.

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Source Water Name

WELL 2 (47723)

WELL 3 (47724)

Type of Water

Report Status Location

Active SOUTH OF PLANT

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Active

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## Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at 217 794 3842. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

U.S. EPA is proposing to require States to identify systems in karst, gravel and fractured rock aguifer systems as sensitive. Water systems utilizing these aquifer types would be required to perform routine source water monitoring. Because the community's wells are constructed in a confined aquifer, which should provide an adequate degree of protection to prevent the movement of pathogens into the wells, well hydraulics were not considered to be a significant a history of disease outbreak; and the sanitary survey of the water supply did not indicate a viral contamination threat. movement; all potential routes and sanitary defects have been mitigated such that the source water is adequately protected; monitoring data did not indicate including: monitoring conducted at the wells; monitoring conducted at the entry point to the distribution system, and the available hydrogeologic data for the wells. In anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that Marca's community water supply wells are not vulnerable to vizal contamination. This determination is based upon the evaluation of the following criteria during the Vulnerability Waiver Process: the community's wells are properly constructed with sound integrity and proper site conditions; there is a hydrogeologic barrier that restricts pathogen manufacturing/processing of chemicals, two below ground fuel storages, and a well. Records indicate that the inactive well has been properly abandoned.

Based on information provided by the City of Marca water supply officials, Shell Oil Co. and Edwards Fertilizer are no longer in business. The Illinois EPA
has determined that Marca Wells #2 and #3 are not susceptible to IOC, VOC, or SOC contamination. This determination is based on a number of criteria Source of Water: MAROATO determine Maroa's susceptibility to groundwater contamination, a Well Site Survey, published in 1989 by the Illinois EPA, was reviewed. Based on the information contained in this document, five potential sources of groundwater contamination are present that could pose a hazard to groundwater pumped by the Maroa community water supply wells. These include a fertilizer/pesticide commercial application or warehouse, a factor in the vulnerability determination. However, having stated this, the

#### Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

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

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Lead and Copper	Date Sampled	PITOM	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Violation Likely Source of Contamination
Copper	07/19/2018	1.3	u u	0.479	O	ਘਕੌਰੋ	И	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household lumbing systems.

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			Maximum residual disinfectant level goal or MRDLG:	Waximum residual disinfectant level or MRDL:	Maximum Contaminant Level Goal or MCLG:	nt Level or MCL:	ι <u>.</u>				Test Results	07/19/2018
micrograms	millirems ]	not applicable	The level or the reflect the	The highes disinfecta		The highes using the :	A Level 2 possible) system on 1	A Level 1 total coli	Regulatory	The follow		μ 
micrograms per liter or parts per billion - or one ounce in 7,3	millirems per year (a measure of radiation absorbed by the body	able.	The level of a drinking water disinfectant below which there is no known or expects reflect the benefits of the use of disinfectants to control microbial contaminants.	The highest level of a disinfectant allowed in drinking water. disinfectant is necessary for control of microbial contaminants	The level of a contaminant in drinking water below which there for a margin of safety.	The highest level of a contaminant that is allowed in drinking using the best available treatment technology.	A Level 2 assessment is a very detailed study of the water syspossible) why an E. coli MCL violation has occurred and/or why system on multiple occasions.	A Level 1 assessment is a study of the water system to identotal coliform bacteria have been found in our water system.	Regulatory compliance with some MCLs are based on running annual average of monthly samples	ing tables cont		1.3
arts per billi	sure of radiat		ater disinfect he use of disi	sinfectant all	t in drinking	ntaminant that treatment tech	a very detaile MCL violation ons.	a study of the ave been found	h some MCLs ar	ain scientific		0.479
on - or one o	ion absorbed		ant below whi nfectants to	owed in drink f microbial <i>c</i>	water below w	is allowed i nology.	d study of th has occurred	water system	e based on ru	terms and me		0
unce in 7,35	by the body)		ch there is :	ED			me water syst and/or why t	to identify system.	mning annual	asures, some		ಜಿದೆದೆ
50,000 gallons of water.			no knowh or exp	here is convin	s no known or a	ater. MCLs are	em to identify otal coliform	potential pro	average of mo	of which may		И
of water.			no known or expected risk to health. MRDLGs do not cohial contaminants.	There is convincing evidence that addition of a	is no known or expected risk to health. MCLGs allow	water. MCLs are set as close to the MCLGs as feasible	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.	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why otal coliform bacteria have been found in our water system.	nthly samples.	The following tables contain scientific terms and measures, some of which may require explanation.		Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Treatment Technique or TT:

A required process intended to reduce the level of a contaminant in drinking water. milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

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### Regulated Contaminants

Gross alpha excluding radon and uranium	Combined Radium 226/228	Radioactive Contaminants	Sodium	Nitrite [measured as Nitrogen]	Nitrate [measured as Nitrogen]	Iron	Fluoride	Barium	Arsenic	Inorganic Contaminants	Total Tribalomethanes (TTHM)	Haloacetic Acids (HAA5)	Disinfectants and Disinfection By- Products
2019	2019	Collection Date	11/13/2018	2019	2019	11/13/2018	11/13/2018	11/13/2018	2019	Collection Date	2019	2019	Collection Date
0.45	5.5	Highest Level Detected	159	H	Ь	0.1	0.688	0.601	3	Highest Level	44	1	Highest Level Detected
0.45 - 0.45	2.5 ~ 2,5	Range of Levels Detected	159 - 159	0.28 - 0.59	0.492 - 1.24	0.1 - 0.1	0.688 ~ D.888	D.601 - D.601	3.44 - 3.44	Range of Levels Detected	3.7 - 3.7	1.1 - 1.1	Range of Levels Detected
0	0	MCLG		ч	10		4	2	0	мстс	No goal for the total	No goal for the total	MCLG
15	И	MCT	:	Ľ	10	1.0	4.0	છ	10	MCL	80	60	MCL
PC1/L	T/tođ	Units	ਘਰੌਂਕੋ	mđđ	₽₽m	wdd	ਘਰੋਰ	ਘਕੋਕੋ	व्देवे	Units	वृर्वेष	ਰਵੇਂ ਰਵੇਂ	Unite
N	М	Violation	R	N	N	N	N	И	М	Violation	z	N	Violation
Erosion of natural deposits.	Erosion of natural deposits.	Likely Source of Contamination	Erosion from naturally occuring deposits. Used in water softener regeneration.	Runoff from fertilizer use; Leaching from septic tanks, sewage; Brosion of natural deposits.	Runoff from fertilizer use; Leaching from septic tanks, sewage; Brosion of natural deposits.	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	Etosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	Erosion of natural deposits; Rumoff from orchards; Rumoff from glass and electronics production wastes.	Likely Source of Contamination	By-product of drinking water disinfection.	By-product of drinking water disinfection.	Likely Source of Contamination

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