

# Sells Intertie Annual Water Quality Report

(Includes: Big Fields)

**Public Water System #090400042**

**2020**

This report is a snapshot of your water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

## **Do I need to take special precautions?**

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. The Environmental Protection Agency (EPA) and Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

## **Where does my water come from?**

Your water comes from 3 ground water sources.

## **Why are there contaminants in my drinking water?**

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 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 can pick up substances resulting from the presence of animals or from human activity including:

microbial contaminants, such as viruses and bacteria, that 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 stormwater 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 stormwater 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 stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and 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. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

# WATER QUALITY TABLE

The table below lists all of the drinking water contaminants detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. EPA requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MRDLG	MRDL	Your Water	Range		Sample Date	MRDL Exceeded	Typical Source
				Low	High			

## Disinfectants

Chlorine Units: Chlorine residual, ppm	4	4	0.7371	0.24	1.64	2020	No	Drinking water additive used for disinfection
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Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			

## Disinfection By-Products

Total Trihalomethanes (TTHMs) Units: ppb	N/A	80	17	ND	17	2020	No	By-product of drinking water chlorination
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Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			

## Inorganic Contaminants

Arsenic Units: ppb	0	10	9.7	8.2	11	2020	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
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Nitrate [reported as Nitrogen] Units: ppm	10	10	2.6	N/A	N/A	2020	No	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
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Sodium Units: ppm			65	N/A	N/A	2019	N/A	Erosion of natural deposits; salt water intrusion
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Contaminants	MCLG	Action Level	Your Water	Range	Sample Date	A.L. Exceeded	Typical Source
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### Lead and Copper Rule

Copper Units: ppm - 90th Percentile	1.3	1.3	0.067	0 sites over Action Level	2020	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
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Contaminants	MCLG	MCL	Your Water	Range Low High	Sample Date	Violation	Typical Source
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### Radiological Contaminants

Combined Radium 226/228 Units: pCi/L	0	5	0.7	N/A	N/A	2016	No	Erosion of natural deposits
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Uranium (combined) Units: ppb	0	30	7.4	N/A	N/A	2019	No	Erosion of natural deposits
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### Special Education Statements

#### Additional Information for Arsenic

While your drinking water meets the EPA standard for arsenic, it does contain low levels of arsenic. The EPA standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The EPA continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

#### Additional Information for 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. PWS 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 at 1-800-426-4791 or at <http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water>.

### Microbiological Testing

We are required to test your water regularly for signs of microbial contamination. Positive test results could lead to follow-up investigations called assessments and potentially the issuance of public health advisories. Assessments could lead to required corrective actions. The information below summarizes the results of those tests.

Calendar Year	Sampling Requirements	Sampling Conducted (months)	Total E.Coli Positive	Assessment Triggers	Assessments Conducted
2020	4 Samples due monthly	12 out of 12	0	0	0

## Significant Deficiencies

*Sanitary deficiencies are defects in a water system's infrastructure, design, operation, maintenance, or management that cause, or may cause interruptions to the "multiple barrier" protection system and adversely affect the system's ability to produce safe and reliable drinking water in adequate quantities.*

*The following is a listing of significant deficiencies that have yet to be corrected. Your public water system is still working to correct these deficiencies and interim milestones are shown, as applicable.*

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### **Deficiency Title: Storage Tank 3 (Hospital Tank) Vent**

Date Identified: 7/19/2019 Overall Due Date: 9/30/2021

Deficiency Description: There is no shroud around the vent screen to protect the vent screen against windblown dust or other contaminants. The vent has been updated since the previous survey and the screen appears to be adequate to prevent entry of insects, but it still will allow blowing dust and other contamination into the tank.

Corrective Action Plan: The vent structure for Storage Tank 3 is an older design; therefore, it is recommended that a new vent structure be designed and installed that meets modern design standards (e.g., Recommended Standards for Water Works, Great Lakes—Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers). The standards noted above are often referred to as Ten States Standards.

#### **Milestone completed by 11/8/2019**

*Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project TU19-812. Project Summary sent. TOUA Project Contribution of \$265,000 provided to IHS 11/07/18. Additionally, IHS SDS Project AZ10067-2601 is priority #7 and proposes to replace this tank - SDS Narrative sent.*

#### **Milestone completed by 7/27/2020**

*Corrective Action Notes: Project delayed due to COVID 19 - extension requested*

#### **Milestone completed by 5/11/2021**

*Contact work is underway*

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### **Deficiency Title: Storage Tank 5 Openings Between Tank Roof and Sidewalls**

Date Identified: 7/19/2019 Overall Due Date: 5/31/2021

Deficiency Description: Storage Tank 5 was rehabilitated in 2014, and most of the openings between the geodesic dome roof and sidewalls appear to have been sealed (i.e., there is less visible light coming through). However, there are three areas where light is coming through between the roof and sidewall near the tank overflow weir.

Corrective Action Plan: The openings between the tank roof and sidewalls should be sealed to protect against the entry of insects or other windblown contaminants.

#### **Milestone completed by 9/30/2021**

*Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project TU19-812. Project Summary sent. TOUA Project Contribution of \$265,000 provided to IHS 11/07/18.*

#### **Milestone completed by 7/27/2020**

*Corrective Action Notes: Project delayed due to COVID 19 - extension requested*

#### **Milestone completed by 5/11/2021**

*Contact work is underway*

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### **Deficiency Title: Storage Tank 3 (Hospital Tank) and Storage Tank 4 Rehabilitation**

Date Identified: 7/19/2019 Overall Due Date: 9/30/2021

Deficiency Description: The interior of Storage Tank 3 (Hospital Tank) is in poor condition. The paint is either blistered or missing from the interior, and there is significant corrosion. The interior of Storage Tank 4 also shows significant corrosion.

Corrective Action Plan: It is recommended that both storage tanks be scheduled for inspection to determine if complete rehabilitation is warranted. During a complete tank rehabilitation, it would also be recommended that Storage Tank 3 have a new vent structure installed that meets present day design standards. Rehabilitation of Storage Tank 4 should include extending the overflow down to where it terminates between 12 and 24 inches above a splash pad and be screened with 24-mesh non-corrodible screen. Additionally, the tank ladders should be equipped with cages with locking hatches to discourage vandalism.

**Milestone completed by 11/8/2019**

*Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project TU19-812. Project Summary sent. TOUA Project Contribution of \$265,000 provided to IHS 11/07/18. Additionally, IHS SDS Project AZ10067-2601 is priority #7 and proposes to replace this tank - SDS Narrative sent.*

**Milestone completed by 7/27/2020**

*Corrective Action Notes: Project delayed due to COVID 19 - extension requested*

**Milestone completed by 5/11/2021**

*Contact work is underway*

## Definitions

<b>Term</b>	<b>Definition</b>
ppm	parts per million, or milligrams per liter (mg/L)
ppb	parts per billion, or microgram per liter (ug/L)
positive samples	the number of positive samples taken that year
% positive samples/month	% of samples taken monthly that were positive
pCi/L	picocuries per liter
ND	Not detected
N/A	Not applicable
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.
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.
MRDL	Maximum Residual Disinfectant Level: 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.
MRDLG	Maximum Residual Disinfectant Level Goal: 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.
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level: The concentration of a contaminant which, if exceeded, trigger treatment or other requirements which a water system must follow.
90th Percentile	Statistical value used to determine if Action Level is exceeded. Determined by calculating the value at which 90% of the samples tested were below that value.

### How can I get involved?

Please feel free to contact the number provided below for more information or for a translated copy of the report if you need it in another language.

\*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\*

### For more information please contact:

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