



CITY OF St. Joseph

ANNUAL WATER QUALITY REPORT FOR 2022

JUNE 2023

We are proud to report the water provided by the City of St. Joseph meets or surpasses established water quality standards



The purpose of this report is to provide you with information on the quality of the drinking water produced by the St. Joseph Water Treatment Plant during the 2022 calendar year. The State of Michigan and the U.S. EPA require us to test our water on a regular basis to insure its safety. We met all monitoring requirements for 2022.

The federal government established the requirement for this Water Quality Report, more formally known as a Consumer Confidence Report, in 1998. We welcome this opportunity to provide you with details of where your water

comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and The Michigan Department of Environment, Great Lakes, and Energy (EGLE) Standards.

Additionally, this report helps keep you informed on current and upcoming projects and the ongoing efforts by the City of St. Joseph and Authority to meet the growing water demands of the service area in the most economical manner possible.

Questions regarding this report can be directed to Greg Alimenti, Water Plant Superintendent, at (269) 983-1240.

Backflow Prevention and Cross Connection Control

Protecting Our Public Water System

The Michigan Department of the Environment and Great Lakes (EGLE) requires all public water systems to have a comprehensive Cross Connection Control Program. The purpose of this Cross Connection Control Program is to help prevent the possible contamination of the public water distribution system.

WHAT IS A CROSS CONNECTION?

A cross connection is a connection or arrangement of piping or appurtenances through which backflow of unpalatable water could flow into the public drinking water system as a result of backflow due to backsiphonage or back pressure.

WHAT IS BACKSIPHONAGE?

Backsiphonage is the reversal of flow in a piping system which is caused by a negative pressure. Backsiphonage can occur during water main breaks, fire fighting events or during an interruption in a building or home's water supply.

WHAT IS BACKPRESSURE?

Backpressure is the reversal of flow in a system due to an increase in downstream pressure above that of the supply pressure. Examples of backpressure include high pressure boilers and downstream pumps.

Examples of Cross Connections:

- Lawn irrigation systems
- Hoses submerged in dirty buckets
- Swimming pools/Hot tubs
- Outside faucets
- Toilet fill valve
- Water-assisted sump pumps
- Boilers (Hot water heating)
- Water softeners
- Solar heating systems
- Chemically treated heating systems

This list of potential cross connection hazards is by no means complete. A home that has one or more of these situations is seriously jeopardizing its own potable water and that of the community if it is served by a public water supply system.

DO:

- Keep the ends of hoses off the ground and clear of all possible contaminants.
- Install ASSE-certified "hose bibb vacuum breakers" on all faucets in and around your home.
- Install an approved backflow prevention device on all underground lawn irrigation systems. Remember, these systems require a plumbing permit and must be inspected.

DON'T:

- Submerge hoses in buckets, swimming pools, tubs, sinks, ponds, or any standing water.
- Use spray attachments without a backflow prevention device.
- Leave the hose nozzle closed when not in use.
- Use a hose to unplug blocked toilets or sewer pipes.

COMMERCIAL AND INDUSTRIAL CROSS CONNECTION INSPECTIONS

Commercial and industrial inspections are performed once every year on high hazard accounts. The City of St. Joseph and the SMRSS&WA have been working with Hydro Corp for several years to manage our commercial and industrial cross connection control program. We ask for your cooperation when Hydro Corp calls to schedule an appointment or asks for information.

RESIDENTIAL CONTROL SURVEYS AND INSPECTIONS

In 2023, inspections of residential properties and homes will be conducted in order to fully comply with the State requirement. This is a five-year program and inspectors will be systematically working through the system during that time period. Inspections will be conducted by water department personnel or contracted through an outside contractor such as Hydro Corp.

There are no fees for the inspections. However, in circumstances where cross connections exist that could pollute your drinking water, any costs associated with the replacement, modification, installation and/or testing of backflow assemblies remain the obligation of the property owner.

General Information

Contaminants and Their Presence In Water

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

Vulnerability of Sub-Populations

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, those with HIV/AIDS, 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).

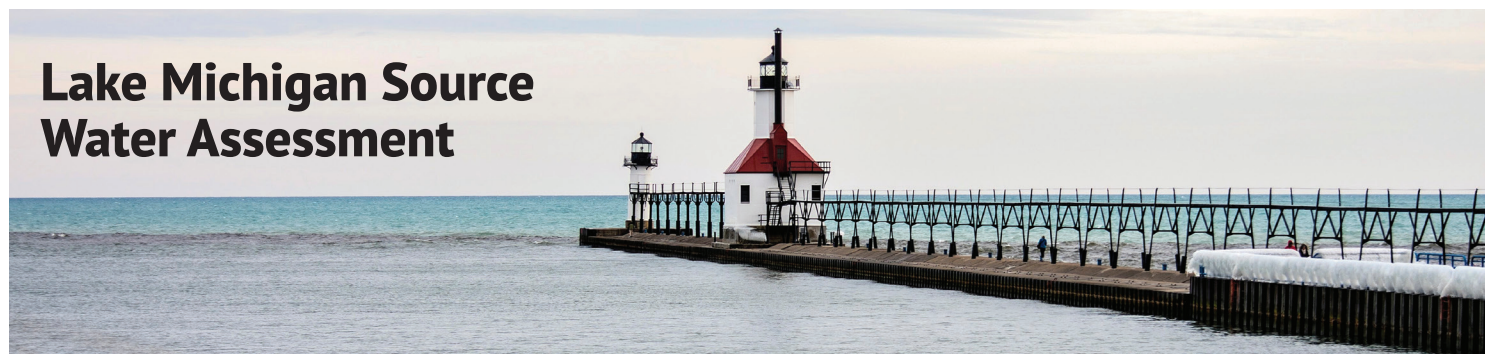
Sources of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. Our water comes from surface water. 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.

In order to ensure 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 regulations establish limits for contaminants in bottled water which provide the same protection for public health. Many water suppliers add a disinfectant to drinking water to kill germs such as *giardia* and *E. coli* especially after heavy rainstorms. Your water system may add more disinfectant to guarantee that these germs are killed.

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 and residential uses.
- Radioactive contaminants, which are naturally occurring or the result of oil and gas production and mining activities.
- 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.



Lake Michigan Source Water Assessment

Lake Michigan is the source of the water for the St. Joseph Water Treatment Plant. The new intake construction in 2011 extends approximately one mile into the Lake. In 2004, a Source Water Assessment was conducted by the Michigan Department of Environmental Quality using procedures established in the Great Lakes Protocol, Source Water Assessment Program.

The criteria were used to develop a "sensitivity" rating, which reflects the natural ability of our source water area to provide protection against contamination of the water supply.

A water source "susceptibility" rating was then established based upon the sensitivity rating coupled with other factors that affect whether a contaminant reaches the intake. Surface source sensitivity and susceptibility ratings range from moderate sensitivity/moderately low susceptibility to very high sensitivity/very high susceptibility.

The conclusion of the assessment indicated the Lake Michigan water used by the St. Joseph Water Treatment Plant is considered highly sensitive and highly susceptible to potential contamination but the report also

stated the "City of St. Joseph Water Treatment Plant has effectively treated this source water to meet drinking water standards."

In 2017, the City completed a Surface Water Intake Protection Plan (SWIPP). Implementation of the SWIPP continues through source water monitoring at the plant's Lake Michigan intake and from the nearby St. Joseph River, contingency planning, public education and staff training.

For more information on the SWIPP or Source Water Assessment please call the St. Joseph Water Plant at (269) 983-1240.



Communities Cooperating to Provide Water and Sewer Services to the Area

“Working together to provide safe drinking water of the highest quality to all of our customers at the lowest possible rate.”

City of St. Joseph

The City of St. Joseph owns and operates the St. Joseph Water Plant. The Water Plant’s average day demand is 4.0 million gallons per day (MGD) with a design capacity of 16.0 MGD. The maximum day water demand in 2022 was 8.9 MGD which occurred on June 30, 2022. The Water Plant provides water to approximately 34,000 people which include 8,800 in the City of St. Joseph and 25,000 in the townships.

Under the 2009 Water Service Agreement, the City sells water, provides maintenance and bills customers in the townships of Lincoln, St. Joseph and Royalton. Customers are billed quarterly: St. Joseph and Royalton Township customers are billed in January, April, July and October; St. Joseph Township Customers are billed in February, May, August and November; Lincoln Township customers are billed in March, June, September and December. Bills are mailed on the first of the month and due on the 21st of the month or the next business day.

Southwest Michigan Regional Sanitary Sewer and Water Authority (SMRSS&WA)

The Lake Michigan Shoreline Sewer & Water Authority was formed in 1964 by the communities of St. Joseph and Lincoln Charter Townships to represent their residents as they negotiated water and sewer services from the City of St. Joseph. Royalton Township joined the Authority in 1996. In 2008, the Southwest Michigan Regional Sanitary Sewer & Water Authority (SMRSS&WA) was formed to replace the Lake Michigan Shoreline Sewer & Water Authority.

Each of the three townships owns and operates its local water and sewer mains; the SMRSS&WA owns and operates shared system assets including the sewer interceptor, water booster stations and water towers. Township representatives work together through the SMRSS&WA to ensure that the three individual water and sewer systems operate cooperatively as one Authority System.

The townships contribute annually to the SMRSS&WA, providing the revenue necessary to maintain these shared capital assets and to deliver common maintenance services to the individual township systems. However, the townships are responsible for the repair and replacement of their own sewer mains, and for the replacement of their own water mains.

Water Services Joint Operating Board (WSJOB)

In 2009, area municipalities in northern Berrien County served by the St. Joseph water system approved a new 30-year water contract that included a new system oversight structure and established a new level of municipal cooperation.

The six-member Water Services Joint Operating Board (WSJOB) consists of three (3) members from the City of St. Joseph and one (1) member from each of the three townships.

Members of the WSJOB have responsibility for setting the water rate for all water system customers. All water users are charged the same rate. The WSJOB is charged with setting a rate sufficient to generate the revenue necessary to pay all costs associated with the operation and maintenance of the water plant, the routine repair and maintenance of the distribution system of the entire systems as well as, the repair and replacement of water plant capital assets. Each community then establishes its own water rates to fund the installation and replacement of that community’s water mains.

The 2009 agreement made it possible for the water system to obtain funding at favorable rates through the State of Michigan revolving loan program for improvements to the St. Joseph Water Plant, including construction of a new intake as well as electrical upgrades and filter replacements, which were completed in 2012. The projects also received several million dollars in federal funding, further reducing the cost to residents.

Joint Board of Commissioners of the Benton Harbor -St. Joseph Wastewater Treatment Plant

The Joint Board of Commissioners is the governing body of the Benton Harbor-St. Joseph Joint Wastewater Treatment Plant. The Joint Plant treats an average daily flow of about 7.1 million gallons per day (MGD) with a design capacity of 15.3 MGD. The Joint Plant serves approximately 60,000 people in its north Berrien County service area.

Established in 1951, the Joint Board provides oversight of the treatment plant’s operation, including all aspects of facility operation, maintenance and improvement. The current eight-member board consists of the Benton Harbor and St. Joseph City Managers (designated representatives by ordinance), two additional representatives from each city, and one representative each from Benton Township and the Lake Michigan Water & Sewage Treatment Authority. The Joint Board meetings are held on the third Thursday of the month at 11:00 a.m., and are open to the public.

Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2022 calendar year. The presence of these 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 January 1 through December 31, 2022.

The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, but some are more than one year old. Chlorine, HAA5 and TTHM results are reported as "Running Annual Averages" (RAAs).

REGULATED CONTAMINANT	MCL	MCLG	YOUR WATER	RANGE	SAMPLE DATE	VIOLATION YES/NO	TYPICAL SOURCE OF CONTAMINANT
Fluoride (ppm)	4	4	0.72	N/A	4/13/2022	No	Water additive to protect teeth.
Barium (mg/L)	2	2	.02	N/A	10/19/2020	No	Discharge of drilling wastes, discharge from metal refineries, erosion of natural deposits.
Chromium (ppb)	100	100	1.4	N/A	10/18/2020	No	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
Cyanide (ppb)	150	150	6.1	N/A	4.13.2022	No	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
TTHM - Total Trihalomethanes (ppb)	80	N/A	71.6	24.5 - 72.6	4 quarters	No	Byproduct of drinking water disinfection.
HAA5 Haloacetic Acids (ppb)	60	N/A	30.0	10.6 - 30.0	4 quarters	No	Byproduct of drinking water disinfection.
Chlorine (ppm)	4	4	1.12	1.03 to 1.20	Daily	No	Water additive used to control microbes.
Gross Alpha	15	0	.48	N/A	4/12/2022	No	Erosion of natural deposits.
Beta emitters (pCi/L)	50	0	0	N/A	1/21/2010	No	Decay of natural and man-made deposits.
Combined radium (pCi/L)	5	0	2.2	N/A	4/22/2013	No	Erosion of natural deposits.
Nitrate (ppm)	10	N/A	0.3	N/A	4/13/2022	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

SPECIAL MONITORING AND UNREGULATED CONTAMINANTS *	YOUR WATER	RANGE	SAMPLE DATE	TYPICAL SOURCE OF CONTAMINANT
Sulfate (ppm)	33.1	N/A	2022	Treatment process additive to help remove suspended particles in water & erosion of natural deposits.
Sodium (ppm)	12	N/A	4/13/2022	Erosion of natural deposits.

Terms and abbreviations used on these pages

Maximum Contaminant Level Goal (MCLG): 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.

Maximum Contaminant Level (MCL): 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.

Maximum Residual Disinfectant Level (MRDL): 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.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

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

N/A: Not applicable

ND: Not detectable at testing limit

ppb: Parts per billion or micrograms per liter

ppm: Parts per million or milligrams per liter

ppt: Parts per trillion or milligrams per liter

pCi/L: Picocuries per liter (a measure of radioactivity).*

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

* Unregulated contaminants are those, for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. In 2020 the City of St. Joseph participated in the fourth round of the Unregulated Contaminant Monitoring Rule (UCMR 4). For a copy of the results please call (269) 983-1240.

CONTAMINANT SUBJECT TO AL	ACTION LEVEL	MCLG	90% OF SAMPLES < THIS LEVEL	RANGE	SAMPLE DATE/ LOCATION	NUMBER OF SAMPLES ABOVE AL	VIOLATION	TYPICAL SOURCE OF CONTAMINANT
Lead (ppb)	15	0	15	0 - 80	2022 City of St. Joseph	0	No	Corrosion of household plumbing systems.
Copper (ppm)	1.3	1.3	0.0	0 - 0.1	2022 City of St. Joseph	0	No	Lead service lines, corrosion of household plumbing, including fittings and fixtures; erosion of natural deposits
Lead (ppb)	15	3.0	0-5	0 - 8	2022 SMRSS & WA	0	No	Corrosion of household plumbing systems, erosion of natural deposits
Copper (ppm)	1.3	1.3	0.1	0.0 - 0.1	2022 SMRSS & WA	0	No	Lead service lines, corrosion of household plumbing, including fittings and fixtures; erosion of natural deposits

MICROBIAL CONTAMINANTS	MCL	MCLG	HIGHEST LEVEL DETECTED	VIOLATION YES / NO	TYPICAL SOURCE OF CONTAMINANT
Total Coliform Bacteria	TT	0	0.1% of all samples collected 1 of 708	No	Naturally present in the environment
Fecal Coliform and <i>E. coli</i>	Routine and repeat sample total coliform positive, and one is also fecal or <i>E. coli</i> positive	0	0% of all samples collected 0 of 708	No	Human and animal fecal waste

SUBSTANCE (UNITS)	MCL	MCLG	HIGHEST LEVEL DETECTED	RANGE OF DETECTION	VIOLATION YES/NO	TYPICAL SOURCE OF CONTAMINANT
Turbidity (NTU)	TT= 1 NTU TT=percentage of samples equal to or below 0.3 NTU	N/A	0.14	0.02 - 0.14	No	Soil Runoff

PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS)	MCL	MCLG	YOUR WATER	RANGE OF DETECTION	SAMPLE DATE	VIOLATION YES/NO	TYPICAL SOURCE OF CONTAMINANT
Perfluorooctane sulfonic acid (PFOS) (ppt)	16	N/A	2.3	2.1-2.3	2022	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities.
Perfluorooctanoic acid (PFOA) (ppt)	18	N/A	2.3	2.1-2.5	2022	No	Firefighting foam; discharge from electroplating facilities; discharge and waste from industrial facilities

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Reporting Requirements Not Met for St. Joseph

We are required to report the results of your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards.

EGLE records show that the City collected the individual analytes Endrin and PCB/Aroclors, on time during the required monitoring period of July 1, 2021, to September 30, 2021, but the results of both individual analytes were not originally reported in the lab report submitted by the deadline of October 10, 2021.

What should I do? There is nothing you need to do at this time. This is not an emergency. You do not need to boil water or use an alternative source of water at this time. The laboratory report showed that there was no PCB/Aroclors and no Endrin in the water.

What happened? What is being done? While we collected the sample on time, delivered it on time to the laboratory, and the laboratory found no Endrin or PCB/Aroclors, the laboratory report did not include the results for these analytes. The City was out of compliance on October 11, 2021 and returned to

compliance on September 27, 2022, the date when the City was notified and the lab provided the results to EGLE.

For more information, please contact Greg Alimenti, Water Plant Superintendent, at (269) 983-1240.

Please share this information with all 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.

Lead in Drinking Water

There is no detectable lead in City of St. Joseph drinking water when it leaves our water plant. But water is naturally corrosive and can pick up microscopic amounts of lead if it sits idle for extended periods of time in pipes, plumbing or fixtures that contain lead. Lead levels in drinking water are likely to be highest in buildings that have:

- Lead service lines connecting the water main to the house.
- Lead indoor plumbing or have copper plumbing joined by lead solder.
- Brass faucets or other plumbing fixtures. Even brass fixtures certified as “lead-free” can contain up to 8% lead.

If the City identifies a lead service line to a property, we contact the owner and offer to have the water tested. We work with the owner to help them understand the results of the test and what action might be appropriate. If no action is taken and the lead line remains in service, we will offer to add the property to our pool of testing sites for regular testing on the schedule established by EGLE to see if there is any change in the future.

SOURCES OF LEAD

Lead is a common metal found in the environment. The main sources of lead exposure are lead-based paint, lead-contaminated dust or soil, and some plumbing materials. In addition, lead can be found in certain types of pottery, pewter, brass, food and cosmetics. Other sources include exposure in the workplace and exposure from certain hobbies (lead can be carried on clothing or shoes). Brass faucets, fittings, and valves, including those advertised as “lead-free”, may contribute lead to drinking water.

The EPA estimates that 10 to 20 percent of a person’s potential exposure to lead may come from drinking water. Infants who consume mostly formula mixed with lead-containing water can receive 40 to 60 percent of their exposure to lead from drinking water.

HEALTH EFFECTS OF LEAD

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Lead is stored in the bones and it can be released later in life. During pregnancy, the

child receives lead from the mother’s bones, which may affect brain development. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

STEPS YOU CAN TAKE TO REDUCE LEAD IN YOUR DRINKING WATER

There are many steps you can take to reduce your exposure to lead in drinking water, but if you have lead service lines, the best step you can take is to have them replaced. In addition:

- **Run your water to flush out lead.** Run your water for 30 seconds to 2 minutes to flush lead from interior plumbing or until it becomes cold or reaches a steady temperature before using for drinking or cooking if it hasn’t been used for several hours. Remember to catch the flushed tap water for plants or some other household use such as cleaning.
- **Always use cold water for drinking, cooking and preparing baby formula.** Never cook with or drink water from the hot water tap. Never use water from the hot water tap to make formula.
- **Do not boil water to remove lead.** Boiling water will not reduce lead.
- **Periodically remove and clean the faucet screen/aerator.** While removed, run the water to eliminate debris.
- **Consider investing in a home water treatment device.** When purchasing a water treatment device, make sure it is certified under NSF/ANSI 53 to remove lead. Search for certified products at NSF International (800)-NSF-8010) or the Water Quality Association (630) 505-0160. Remember to periodically change the filters based on the manufacturer’s recommendation.
- **Identify and replace plumbing fixtures containing lead.** Brass facets, fittings and valves may leach lead into drinking water. Products sold after Jan 4, 2014 must by law contain very low levels of lead.
- **Have a licensed electrician check your wiring.** Your home electrical system may be attached to your service line or elsewhere in your plumbing. If this connection is electrified, it can accelerate corrosion. Check with a licensed electrician to correct ground faults. DO NOT attempt to change the wiring yourself because improper bonding or grounding can cause electrical shock and fire hazards.
- **Test your water for lead.** If you are concerned about lead, have the water tested. Call us at (269) 983-1240 to find out how

to get your water tested for lead. Information will be provided regarding local certified testing labs.

- **Have your child’s blood tested.** Contact your healthcare provider to find out how you can get your child tested for lead, if you are concerned about lead.

BENEFIT OF RUNNING YOUR WATER

- In 2016, the City identified several services served by partial lead connections. The City notified these customers and collected water samples to be tested for lead in the laboratory. Of the twenty four samples collected, one home exceeded the lead Action Level of 15 ppb. Staff then collected samples from all of the faucets in the home and after using different amounts of water. Tests revealed that the elevated lead level was present only at a single faucet, which likely contained a brass-lead alloy, and it was not detected at any other faucet. It was further determined that running the water in that faucet before each use reduced the lead to well below the action level, and replacing that faucet with a modern fixture would be expected to eliminate the issue.

DISTRIBUTION SYSTEM MATERIAL INVENTORY

The City of St. Joseph and the townships in the SWMSS&WA served by the City updated the Distribution System Material Inventories (DSMI) in 2020 as required by EGLE to determine the number of lead services in their respective municipalities. The total numbers of services of all materials whether copper, galvanized, plastic or lead are as follows:

- City of St. Joseph = 3941
- St. Joseph Charter Township = 4484
- Royalton Charter Township = 1404
- Lincoln Charter Township = 5451.

The number of services estimated to be lead are 2092 in the City, and 6 in the communities served by the SWMSS&WA.

In 2018, the State of Michigan announced a new lead and copper rule that requires replacement of lead water services over the next 20 years. The City is in the process of completing point-of-entry inspections in order determine replacement eligibility. A point-of-entry inspection consists of determining the service material type where it enters a home, in most cases this is in close proximity to the meter. The inspection typically takes less than 10 minutes to complete and we appreciate your cooperation when the inspector contacts you. **Please feel free to email questions regarding this program to: leadservice@sjcity.com.**



What Do Lead Service Lines Look Like?

The water mains in our distribution system contain no lead. However, some service lines, especially those serving homes built between 1930 and 1960, may contain lead. Below is a helpful guide provided by USEPA to assist the homeowner in identifying lead pipe.

Lead service lines are generally a dull gray color and are very soft. You can identify them easily by carefully scratching with a key. If the pipe is made of lead, the area you've scratched will turn a bright silver color. Do not use a knife or other sharp instrument and take care not to puncture a hole in the pipe.

Note: Galvanized piping can also be dull gray in color. A strong magnet will typically cling to galvanized pipes, but will not cling to lead pipes.

Lead service lines can be connected to the residential plumbing using solder and have a characteristic solder "bulb" at the end, a compression fitting, or other connector made of galvanized iron or brass/bronze.



The St. Joseph Water Plant quality control laboratory performs more than 58,000 tests annually on your water before it reaches you.

Water Test FAQ

Quick Facts About Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant woman and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of St. Joseph Water Treatment Plant is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components.

When you have not run any water for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds at least 5 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. Infor-

mation on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the EPA's Safe Drinking Water Hotline (800-426-4791) or online at: www.epa.gov/safewater/lead.

Infants and children who drink water containing lead in excess of the Action Level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

What is Turbidity?

Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Nephelometric Turbidity Units (NTU) is a measure of the clarity of water. The lowest monthly

average meeting the turbidity limits was 100%.

What is Cryptosporidium?

Cryptosporidium is a microscopic organism that, when ingested can result in diarrhea, fever and other gastrointestinal symptoms. The St. Joseph Water Plant tested for Cryptosporidium in 2018. We have never detected it in our source water.

The organism is present in Lake Michigan and the nearby St. Joseph River. It comes from animal wastes in the watershed. Cryptosporidium is eliminated by an effective combination including filtration, sedimentation and disinfection.

What is the Average Water Hardness?

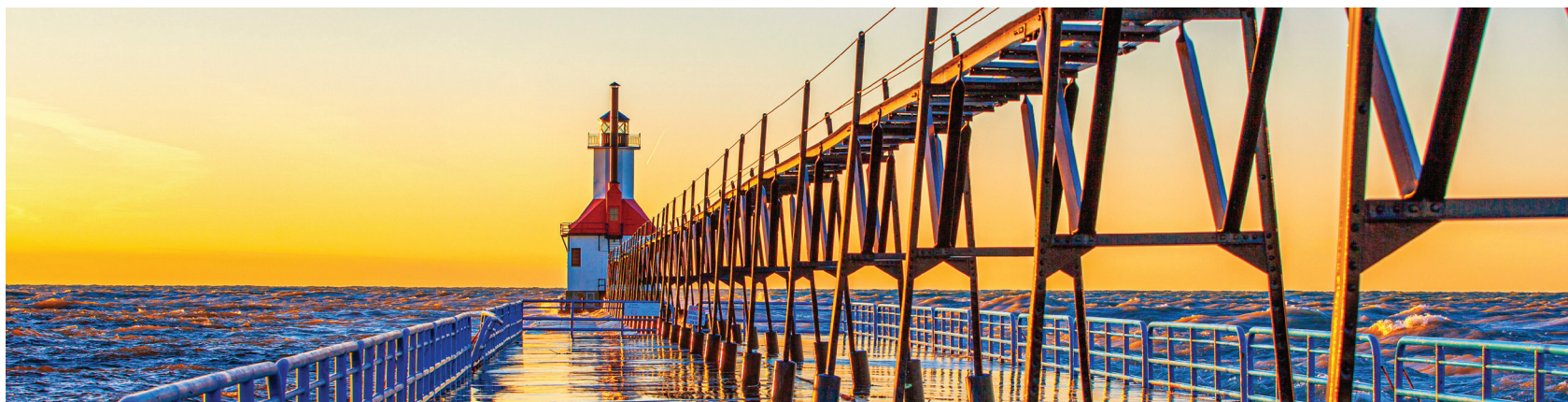
The average water hardness is 146 ppm (as CaCO3). This equates to 8.5 Grains.



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The St. Joseph Water Treatment Plant

Originally constructed in 1892, the Treatment Plant serves the St. Joseph area with water drawn through a 48" diameter intake pipe installed in 2011.

Treatment processes include screening, disinfection, settling and filtering. The Treatment Plant is manned 24 hours per day and your water is constantly monitored for quality.

The current Plant personnel listed here have more than 115 years of collective experience at the St. Joseph Water Treatment Plant and are dedicated to providing safe and reliable drinking water to our community.

Contact Information

WATER PLANT SUPERINTENDENT:

Greg Alimenti (Email: galimenti@sjcity.com)

CHIEF PLANT OPERATOR:

Shawn Orlaske

MAINTENANCE FOREMAN:

Monica Herrick

WATER PLANT OPERATORS:

Ty Shindeldecker, Jerrold Thomas,
Jeff Peden, Rory Dickey, Lyndsey Army

WATER TREATMENT PLANT PHONE: 269-983-1240