

MACKINAW CITY

SPRING NEWSLETTER 2016

Contact The Village
102 S. Huron Ave.
P.O. Box 580
Phone: 231-436-5351
Fax: 231-436-4166
Email: village@mackinawcity.org
Web: MackinawCity.org

Water Department Update

By Pat Rivera, Water & Wastewater Superintendent

With lead levels in Flint's water supply receiving national attention, this is a good time to talk about the water supply here in Mackinaw City. Before you read any further, I want to assure you that our water supply is safe and does not have lead issues. Over the years the uses for lead have been numerous. Lead has been used in paint, gasoline, batteries, fishing equipment and as a protective shield when receiving x-rays. The history of using lead in the water industry goes back to the Roman Empire. The Romans used lead for water pipes and as a material in their cooking pots and pans. In more recent years lead was used as a solder to join copper pipes together and used for service lines that would carry water from the water mains to your home. Manufacturers also used lead for the manufacturing of plumbing fixtures. We know the pitfalls and dangers of lead. Lead is a toxin that causes both immediate and long-term health problems, especially in children.

So what are we doing to fix this problem? The city adds polyphosphates to our water for corrosion control. Polyphosphates line the water mains in our distribution system and within the pipes of our homes. This stops the lead from leaching into the water.

Polyphosphates have many benefits, including controlling iron and manganese to minimize rusty water, reducing discoloration and mineral buildup, and diminishing calcium scale deposits typically found in hot water heaters and lines. Spring and fall hydrant flushing also prevents lead from leaching out of our water. In 2014, the Reduction of Lead in Drinking Water act was implemented. You will be relieved to know that 100% of our water samples that were tested for lead this past July were all under the maximum contaminate level of 15 parts per billion, For more information, refer to the Consumer Confidence Report or contact the water department.

*** HYDRANT FLUSHING ***

April 11TH to April 22ND

During Daylight Hours

EAST of I 75 from April 11th - 15th

WEST of I 75 from April 18th - April 22nd

This can lead to water discoloration so be careful when doing laundry

We apologize for the inconvenience, but hydrant flushing is a necessary maintenance task to ensure the safety and functionality of the water distribution system.

Thank you for your patience.

SUMMER CONSTRUCTION

West Central Ave will be under construction

This summer the road will be reconstructed, widened to include a section of center turn lane and a bike lane to Headlands Drive, drainage improvements, and some sidewalk replacements. Traffic will be allowed during construction but some delays may occur.

Please be patient, and remember to be mindful and careful while driving in the construction area in order to keep work crews safe.

MCPD Update

By Chief Wyman

With the upcoming spring and summer tourist seasons, the Police Department would like to remind drivers to please watch out for pedestrians and bicycles. Of particular attention this year is our sidewalks that are not only in the downtown areas but in many parts of the Village as well. Please keep the sidewalks clear of vehicles, debris, and vegetation. Not only does this provide for a very welcoming community it also gives pedestrians a safe place to walk out of traffic. Among other things,

Officers will be looking for clear sidewalks and any violations involving them.

We have many events, both old and new, scheduled for this summer. Some of these events requiring extra attention will be posted as community alerts on the "Nixle System" through the police department. We encourage you to sign up for these alerts by going to Nixle.com. If you would like assistance please feel free to contact a police officer. Remember, police officers are available to serve you 24 hours per day just by calling 911. It does not require an emergency to call 911.

Mackinaw Area Public Library

April 6, 6 PM: "History of Crime in Michigan", a presentation by Michigan True Crime author Tobin Buhk.

June 1, 6 PM: Michigan author Adam Schuitema appears as part of the Michigan Notable Book Tour.

July 6, 7 PM: Jennifer McGraw gives a presentation on Straits area history.

July 7, 2 PM: Kids' Summer Reading Program – Rocks, What kind, pets and art.

July 14, 2 PM: Kids' Summer Reading Program – Animals Around the World, animal presentation.

July 21, 2 PM: Kids' Summer Reading Program – Found Art, create a work of art from things left behind.

July 28, 2 PM: Kids' Summer Reading Program – Kevin Kamarrad, puppets, poetry and music.

August 2, 11 AM: Antique Appraisal clinic.

August 4, 2 PM: Kids' Summer Reading Program – Raven Hill, Reptiles and Amphibians.

August 11, 2 PM: Kids' Summer Reading Program - Learning about Birds, Becky Schaefer teaching beginning birds.

August 17, 7 PM: "Trails and Treasures", a presentation by Michigan travel author Ron Rademacher.

Mackinaw City Sewer Televising Program

As a part of a MDEQ grant funded program for creating Asset Management Plans for the Village's sanitary sewer and storm sewer collection systems, the Village will be contracting out the cleaning and televising of a large portion of both sanitary and storm sewer systems. This work is anticipated to be performed from April through July of 2016. It was originally planned for last fall but was postponed due to possible weather conflicts. An informational flyer has already been sent to all sewer customers being served by the Village's system recently. The flyer is in the back of this newsletter and will also be posted on the Village's website. It contains important information about the potential impacts of the sewer cleaning and televising work. If you have any further questions about the work to be performed feel free to call Village Hall for more information.

Mackinaw Area Historical Society

Heritage Village events in 2016

Heritage Village is open year round from dawn to dusk. Feel free to walk the Village, use the picnic table, take a nature walk or just sit under the shade of the trees anytime.

Special events free and open to the public:

2nd Monday of each month – 7 pm – MAHS lecture series, Pinecrest Village – topics vary from month to month, for schedule go to www.mackinawhistory.org

April 25 – 9:30am-3:00pm – Plowing of the Fields

May & June – Arthritis prevention walking--check Emmet County website for details

May 21 & June 18 – 10-noon – Willing to be a docent, come for training on one of these days.

May 27 – Sept. 5 – 1-5 pm Fridays-Mondays – Village open for docent tours

May-Sept. – Story trail – check with Mackinaw Public Library for details

June 20-24 – 9am-3pm – Discovery Camp for children entering 4th-8th grades-\$35/ student

August 5 – 6:00-8:30pm – Historic Festival Hot Dog dinner and Square Dance

August 6 – 9:30am-3:00pm – Historic Festival – Vintage Baseball, Maypole, Black smith, quilters, spinners, soap making, bucket making, music, Native teachings, etc.

Oct. 16 – 2-5pm – Ghost Supper

Oct. 29 – 6:00-8:30pm – Fright Night

Dec. 3 – 2-4pm – Christmas in Mackinaw

ANNUAL SPRING CLEAN-UP

Leaves and Brush **ONLY**

May 1st thru May 15th Weather Permitting

****Nothing will be picked up after May 20th****

Leaves must be in pile at curb

Sticks and brush must be piled neatly at curb

Piles of mixed leaves and sticks **WILL NOT** be picked up

Residential Yard Waste Disposal

For years Village Residents have disposed of leaves, brush, and logs at the disposal site located south of Trails End Road. Unfortunately, more recently it has become a dumping area for non-yard waste items, non-resident dumping, and the use commercial companies to dispose of large volumes of debris. All of these lead to increased costs on the Village to clean up the waste left behind. As a result, **starting May 30, 2016**, the site will be open only during designated hours **for resident residential use only**, Hours open will be posted on-site. Watch for updates on the Village's website.

ANNUAL DRINKING WATER QUALITY REPORT

VILLAGE OF MACKINAW CITY

January 1 thru December 31, 2015

This report is designed to inform you about the quality drinking water and services that we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. The sources of drinking water (both tap 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.

Our water comes from four groundwater wells. These wells are located throughout the village.

Well # 1 is on Pond St., Well # 2 is on Perrot St., Well # 3 is on U.S. 23, and Well # 4 is on Pond St. In 2004 the state approved the Village of Mackinaw City's "Wellhead Protection Plan".

The 4 production wells (Well #1, Well #2, Well #3, Well #4) obtain ground water from an aquifer that would be characterized as moderately high susceptibility to contamination. The State performed an assessment of our source water in 2003.

*We are pleased to report that your drinking water is safe and meets all
State and Federal requirements*

This report is a snapshot of the quality of the water we provided to you in 2014. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and State of Michigan standards.

If you have any questions about this report or concerning your water utility, please contact Pat Rivera water superintendent, at City Hall (231) 436-5351. We want our valued customers to be informed about their water utility. The Village of Mackinaw City Water Department routinely monitors for contaminants in your drinking water according to *Federal and State Laws*.

This report shows the results of our monitoring for the period of **January 1 thru December 31, 2015**. *ALL* drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It is important to remember that the presence of these constituents does not necessarily pose a health risk.

Contaminants that may be present in any 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 run-off, 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.

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.

The **State of Michigan** and **Environmental Protection Agency** require us to test our water on a regular basis to ensure its safety.

We met all monitoring requirements for the year 2015.

The following tables list all drinking water contaminants that we detected during the 2015 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 – December 31, 2015**. 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.

In the following tables you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Parts per million (ppm) or Milligrams per liter (mg/l) – one part per million corresponds to one minute in two years' time, or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter – one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) – a pico equals one part per trillion; the measurement of radiation in water.

Maximum Contaminant Level (MCL) – is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) – is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allows for a margin of safety.

Action Level (AL) – is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Residual Disinfectant Level (MRDL) – is 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) – is the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA – not applicable ND – not detectable at testing limits RAA – running annual average.

We are pleased that your drinking water meets or exceeds all Federal and State Requirements.

We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that **YOUR WATER IS SAFE** at these levels. *All* sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. *All* 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 the water poses a health risk. 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 microbiological contaminants and potential health effects can be obtained by calling:

The Environmental Protection Agency's Safe Drinking Water Hotline at -- 1-(800) 426-4791.

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. The Village of Mackinaw City 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 or at <http://www.epa.gov/safewater/lead>.

General information about our water system

The Village of Mackinaw City water system distributes water along approximately 11 miles of pipelines from four separate well locations. Well # 1, on Pond St., has a pumping capacity of 650 GPM, Well #2 on Perrot St. has a capacity of 360 GPM, Well # 3, located just off U.S. 23 has a capacity of 400 GPM, and Well # 4, also located on Pond St., has a capacity of 385 GPM. These wells give the village a "Firm Capacity" (the system's capacity with the largest well out of service) of 1145 GPM or 1.6 Million Gallons per Day. Water storage is provided by a 200,000 gallon elevated water storage tank, located at Wawatam Park on N. Huron Ave. Additional land is owned by the Village on the west side of town for a future additional storage tank. The Villages' water is treated with sodium hypochlorite (chlorine) and polyphosphate for disinfection and iron sequestering. The Village has recently purchased back-up generators capable of maintaining the capacity of our water system in the event of a power loss to the city.

The Village of Mackinaw Water Department is on call 24 hours per day 365 days a year ready to do whatever is necessary to provide this community with the best possible water at all times.

**Please help us protect our water resources, which are the heart of our
Community, our way of life, and our children's future.**

VILLAGE OF MACKINAW CITY

2015 WATER MONITORING REPORT

Regulated Chemical Contaminants	MCL	MCLG	Our Water System	Sample Date	Violations Yes/No	Typical Source of Contaminants
Barium (ppm) (inorganic)	2	2	0.01	2014	NO	Erosion / Natural Occurring Byproducts of drilling
Nitrate (ppm)	10	10	N/D to .7	2015	NO	Erosion of natural deposits, runoff from fertilizers
Fluoride (ppm) (inorganic)	4	4	.15 to .26	2015	NO	Erosion of natural deposits

Radioactive Contaminants	MCL	MCLG	Our Water System	Sample Date	Violations Yes/No	Typical Source of Contaminants
Gross Alpha emitters (pCi / L)	15	0	ND to 5.0	2015	NO	Erosion of natural deposits
Combined Radium 226 / 228 (pCi / L)	5	0	ND	2015	NO	Erosion of natural deposits

Contaminants Subject to an Action Level	Action Level		Our Water System	Sample Date	# of Samples Above AL	Typical Source of Contaminants
Free Chlorine Residual (ppm)	MRDL = 4.0 MRDLG = 4.0		.20 to .61 RAA= .45	2015/ monthly	0	Disinfectant added to control microbes
Total Trihalomethanes (ppb)	MCL = 80		4.7 RAA= 4.7	2015	0	Disinfection byproduct
Haloacetic Acids (ppb)	MCL = 60		4.0 RAA = 4.0	2015	0	Disinfection byproduct
Lead (ppb) *	AL = 15		0	2015	0	Corrosion of household plumbing; Erosion of Natural Deposits
Copper (ppm) *	AL = 1.3		0.39	2015	0	Corrosion of household plumbing; Erosion of Natural Deposits; Leaching from wood preservatives

* 90 % of the samples collected were at or below the level reported for our water.

Unregulated Chemical Contaminants **			Our Water System	Sample Date	Violation Yes / NO	Typical Source of Contaminants
Sodium (ppm)			5 to 13 RAA = 8 mg/l	2015	N / A	Erosion of natural deposits
Sulfate (ppm)			ND to 21 RAA = 11.5	2015	N / A	Erosion of natural deposits

** Unregulated contaminants are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants.

Dear Village Sewer Customers,

Please take a moment to read the following information regarding the sewer cleaning and inspection the Village will be performing this spring.

Reason for cleaning and inspecting the sewers.

The Village has received a sizable grant from the MDEQ to complete Asset Management Plans for the Village's sanitary and storm sewer collection systems. This will include the cleaning and televising of large portions of the Village's sewer systems. The main purpose will be for determining the condition of the sewer system to plan for appropriate repairs or replacements in a systematic and cost effective manner. In addition, the cleaning and inspection program keeps the sewer system operating efficiently by:

- helping prevent blockages and backups
- removing built-up debris, such as tree roots, grease, grit and sand

Schedule

The current schedule for the sewer cleaning and televising program is April through June 2016. More detailed schedule information will be known once a contractor is selected.

How sewers are cleaned.

Sewer cleaning is by a high-pressure nozzle to flush water down the sewer. The dirt and debris are sucked up through a manhole by a large vacuum truck and taken to the landfill.

How sewers are inspected.

A remotely operated video camera is inserted into the sewer to record its condition. From the video we can tell if we need to repair or replace the sewer.

Estimated time of Cleaning/inspecting.

It usually takes about one day to clean the sewer on each block. However, some sewers can take longer, depending on their size and condition.

Items completed by the homeowner before sewer cleaning will begin on your street.

Occasionally during cleaning and inspection, air pressure in the sewer can cause water to splash out through toilets, sinks and drains. Take the following precautions to prevent water damage in your home:

- Close the lids on all toilet bowls when not in use. Also covering toilet bowls with a towel will help contain any spills.
- Insert drain plugs in all sinks and bathtubs when not in use.
- Remove all floor mats in bathrooms.
- Place an old towel around the base of toilets.
- Wrap the cover of your basement floor drains with thick plastic, and place something heavy over it.

What to expect after the sewers are cleaned/inspected.

Sometimes the sewer cleaning and inspection leaves an odor in the home. This is entirely normal and is an indication of your system being cleaned of debris that may lead to future blockages. If there is an odor, run some water down the sink and bathtub drains, flush the toilets, pour a pail of water into each basement floor drain, and open the windows. After a short time, the odor should disappear.

Use of facilities while sewers are cleaned/inspected.

It is fine to continue to use your facilities during these operations. However, be just be mindful that air pressure in the sewer during the cleaning and inspection can sometimes cause water to splash out through toilets, sinks and drains. Remember to close the lids on all toilet bowls when not in use, and insert drain plugs in all sinks and bathtubs when not in use.

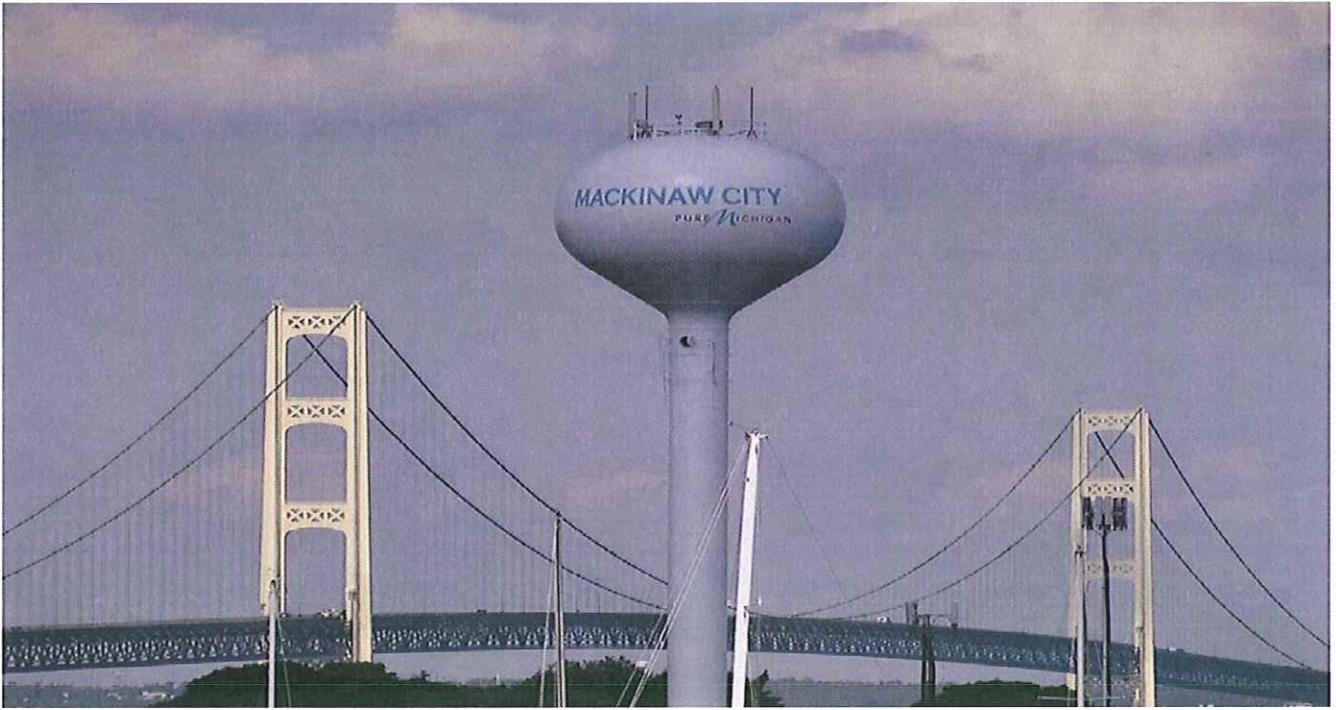
Seasonal Residents

For seasonal residents that will not be present during the time of the sewer cleaning work, we recommend that you arrange to have a neighbor or local plumbing company to take the precautions indicated above prior to the cleaning work, and then to inspect your facility for anything unusual after the sewer cleaning work has been completed.

Best Regards,

Patrick Rivera

Water Wastewater Superintendent



T0: POSTAL CUSTOMER

Village of Mackinaw City
102 S. Huron Ave.
Mackinaw City, MI 49701

PRSR1 STD
U.S. POSTAGE
PAID
Crossroads Ind. Inc.
Gaylord MI 49735
Permit #281