



THE CITY OF MOUNT CLEMENS – CALENDAR YEAR 2015 ANNUAL DRINKING WATER QUALITY REPORT

City of Mount Clemens - 1750 Clara Street - Mount Clemens, MI 48043 - 586.469.6818 ext. 315 - www.cityofmountclemens.com

RIGHT TO KNOW RULE

The City of Mount Clemens provides your drinking water and is pleased to present you with this annual water quality report, in accordance with the regulations. Our goal is to provide you with a safe and dependable drinking water supply. This report will illustrate that we are achieving this goal.

MOUNT CLEMENS WATER FILTRATION PLANT

On July 1, 1929 the City of Mount Clemens Water Filtration Plant began filtering and pumping Lake St. Clair water to the City of Mount Clemens. It was soft water compared to the hard well and river water the citizens had been used to for many years. During the past 84 years the plant has pumped the equivalent contents of Lake St. Clair over 50 times!

The first public water supply in Mount Clemens was started in 1888. The water plant was built at present day Shadyside Park and used the Clinton River as its source. The City switched to wells in 1905. However, the well supply was not adequate for fire flows so untreated Clinton River water had to be pumped into the water system to help fight large fires.

Since its original construction in 1929, the Mount Clemens Water Filtration Facility has undergone many changes including doubling in size in 1959. In 2000 the plant was upgraded to include ozone treatment and in 2003 and 2012 the Michigan Section of the American Water Works Association awarded Mount Clemens Drinking Water the best tasting drinking water in the State! In 2004 the American Water Works Association named the Mount Clemens Water Filtration Plant a designated landmark.

Water Supply is always important to growth of any region. Providing a safe, abundant, reliable supply of drinking water has helped the City of Mount Clemens and adjacent townships develop tremendously since 1929.

WHERE DOES YOUR WATER COME FROM?

Your drinking water is drawn from Lake St. Clair. A 30-inch steel pipe extending over three-quarters of a mile into the lake transports the lake water to the treatment plant. The intake is

equipped with zebra mussel control to prevent these troublesome mollusks from obstructing the pipeline. To ensure a reliable supply of water, the City has an emergency interconnection with the Great Lakes Water Authority.

Don't Forget To Use Your Water Meter To Detect Leaks!

A small leak, about the size of the head of a pin, dripping at one drop per second can add up to 7 gallons of water per day. A large leak, the kind most often found in toilets, can waste 200 gallons of water per day! Check your water meter when you suspect a leak. Make sure no water is being used inside or outside (no clothes washing filling, no shower running, no water outdoors, etc).



Find your water meter and look at the dial. If you have a meter with a dial face find the leak detector triangle on the meter dial. If all of your water sources are off and the leak detector is rotating, you may have a leak.

If you have a digital meter, (a rectangular box on the white dial face) look at the rectangular box with a flash light. A faucet icon that flashes or stays on continually means that you have a leak.

How to monitor your water use:

1) Read the odometer and write it down completely. Then write down the date you read it. After a period of time (we suggest 7 days) read the odometer again and write it down and write down the date. 2) Subtract the first reading from the second reading. This is your water use in cubic feet during the period. 3) Multiply the water use by 7.48. This is your water use in gallons during the period. 4) Divide the water use in gallons by the number of days between readings. This is your average gallons per day during the period.

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HEALTH AND SAFETY INFORMATION

The following information is mandatory language provided by the Environmental Protection Agency:

Drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily pose a health risk. The sources of both tap and bottled drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive materials, and can also pick up substances resulting from animal or human activity.

-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 be the 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 users.
- Radioactive contaminants, which are natural occurring or are 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.

To ensure that tap water is safe, the Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration establishes limits for contaminants in bottled water, which must provide the same protection for public health. All of these contaminants were below the level of concern in Mount Clemens water.

Information for Vulnerable Populations: Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as 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. Federal guidelines on appropriate means to lessen the risk of infection from cryptosporidium and other microbiological contaminants are available from EPA's Safe Drinking Water Hotline, 800.426.4791.

Information about 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. The City of Mount Clemens 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.

DEFINITIONS

Parts per million (ppm) and **parts per billion (ppb)** - One ppm = parts per million, or milligrams per liter (mg/L), **ppb** = parts per billion, or micrograms per liter (ug/L).

Maximum Contaminant Level Goal (MCLG) – The MCLG is the level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs provide a margin of safety.

Maximum Contaminant Level (MCL) – the MCL is 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.

Nephelometric Turbidity Unit (NTU) measures clarity.

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

Treatment Technique (TT) – A treatment technique is a required process intended to reduce the level of a contaminant in drinking water

Picocuries per Liter (pCi/L) - A measure of radioactivity.

"Maximum residual disinfectant level goal" or "MRDLG" means 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.

"Maximum residual disinfectant level" or "MRDL" means 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.

SOURCE WATER ASSESSMENT REPORT

Our Source Water Assessment was completed in 2004. The Mount Clemens source water is categorized as highly susceptible, given land uses and potential contaminant sources within the source water area. However, it is noted that historically, the Mount Clemens Water Treatment Plant has effectively treated this source water to meet drinking water standards. The City of Mount Clemens has instituted pollution prevention programs, but is cognizant of additional potential threats to its source of drinking water that are identified in the report. The report explains the background and basis for these determinations. More information is available at www.michigan.gov/deq

MOUNT CLEMENS DRINKING WATER QUALITY DATA FOR 2015

The table below lists all the 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.

Regulated contaminant	MCL	MCLG	Level Detected	Rang Detec		Sample Date		Violation Typi Yes/No		al Source of Contaminant
Fluoride (ppm)	4	4	<0.1	N/A		8/5/2013	8/5/2015		Erosion of natural deposits. Discharge from fertilizer and	
										um factories
Bromate (ppb)	10	0	<1.0	<1.0-2.5		Quarterly	У			duct of drinking water ction
Combined Radium (pCi/L)	5	0	0.33]	N/A	8/7/14		No	Erosion of natural deposits.	
Regulated Contaminant	Treatm Techni		Running Am Average	nual	Monthl Range	y Ratio		Violation Yes / No		Typical Source of contaminant
Total Organic			Carbon (TOC) re	moval ra	atio is cal	culated as	1	No	Naturally present in the	
Carbon (ppm)	the rati	the ratio between the actual TOC removal and the TOC removal environment.							environment.	
			The TOC was measured quarterly and our system							
met all TOC removal requirements set by the state.										
Special Monitoring and Unregulated Contaminant**			evel Detected	Sample Date			Typical	Source	of Contaminant	
Sodium (ppm)			45	8/5/2015			Erosion of natural deposits			
Contaminant			0th Percentile Monit		oring Period Nu			umber of		ypical Source of
Subject to Action						Sai		mples Above the		ontaminant
Level					Ac			tion Level		
Lead (ppb)	15 1.75 2014			None		_	orrosion of household			
										umbing systems, Erosion of
			–							tural deposits
Copper (ppb)	1300 147 2014			None			orrosion of household			
										umbing systems, Erosion of
										ntural deposits. Leaching
state T.T	<u> </u>	1	6 1:1 ED4	_						om wood preservatives.

^{**} 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. The City of Mount Clemens tested a wide variety of unregulated contaminants in 2014. The unregulated contaminants test results are available to customers by contacting the Mount Clemens Utilities Department.

Clemens Utilitie	es Departmen	ıt.								
2015 Turbidity	- Monitoring	every 4 ho	urs at Plant F	inished Wat	er Tap					
Turbidity is a mo	easure of the o	cloudiness	of water. We	monitor it b	ecause it is	s a g	ood indicator	of the effecti	veness of our filtration	
system.										
Highest Single Measurement		Lowest Monthly % of samples				olati	on Yes / No	Major Source in Drinking Water		
Cannot exceed 1 NTU		meeting (Min. 95	U							
0.08 NTU					No	Soil Runoff				
Disinfection Resi	iduals and Dis	infection 1	By-Products –	Monitoring	in Distrib	outio	n System			
Contaminant	Test	Units	Health	Allowed	Level		Range of	Violation	Major Source of	
	Date		Goal	Level	Detected	ı	Detection	Yes / No	Drinking Water	
			MCLG	MCL					_	
Total	2015	ppb	N/A	80	44.9		11-79	No	By-product of drinking	
Trihalomethanes									water chlorination	
(TTHM)										
Haloacetic Acid	2015	ppb	N/A	60	24.7		6.9-33	No	By-product of drinking	
(HAA5)									water disinfection	
Disinfectant	2015	ppm	MRDGL 4	MRDL 4	0.71		0.02-1.55	No	Water additive used to	
(Chlorine)									control microbes	
Residual (ppm)										
Microbial	MCL		MCLG	Nı	umber	Violation	Typical Source of			
Contaminants					De	etected	Yes / No	contaminant		
Total Coliform	1 positive monthly sample (5% of monthly			0		0	No	Naturally present in the		
Bacteria	samples positive)				in	one month		environment		
Fecal Coliform	Routine and repeat sample total Coliform			0		0	No	Human and animal fecal		
And E. Coli	positive, and one is also fecal or E. Coli positive					in	entire vear		waste	

PUBLIC PARTICIPATION

Interested citizens are welcome to attend City Commission meetings to hear more about the Mount Clemens Water System. Meetings are held the first and third Monday of each month at 7:00 pm at City Hall, located at One Crocker Boulevard.

For More Information, Please Contact:
Steve Brown
City Manager
(586) 469-6818 Ext 315
8:00 am to 4:30 pm weekdays

QUESTIONS OR COMMENTS

City Staff works year-round to provide quality water to residents and businesses. Monitoring results from early

2015 are available upon request. If you have any questions or comments, or would like to receive more specific information about the Mount Clemens Water System, please feel free to call Steve Brown, City Manager.

CITY OF MOUNT CLEMENS 1750 CLARA MOUNT CLEMENS, MI 48043

IMPORTANT INFORMATION ENCLOSED: 2015 WATER QUALITY REPORT

