

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE

CONSUMER CONFIDENCE REPORT FOR COMMUNITY WATER SUPPLY CERTIFICATE OF DISTRIBUTION

Issued under authority of 1976 PA 399 and Administrative Rules, as amended. Failure to submit certification is a violation of the Act and may subject the water supply to enforcement penalties.

Supply Name: City Of Water	liet County:	Berrien	WSSN: 06930
Population: 500 or fewer people	☑ 501 – 9,999		000 or more people
Community water supplies must confirm that the of CCR availability, have been distributed to cus R 325.10404(4)(c). Supplies must also certify the monitoring data previously submitted to the Mich appropriate DEQ district office by October 1.	Consumer Confidence Report (Continued to tomers by July 1 as required under the information contained in the ingan Department of Environments	CCR) and any enclosed Per administrative rules R :	Public Notices (PN) or notice 325.10415 and sistent with the compliance
Method of delivery to DEQ			1
	Other Faved	Date delivered: 6.13	
Method of delivery to Local Health Departme ☐ Mail ☐ Email ☐ Hand Delivery	<i>ent</i> □ Other	Date delivered: _6 . 2	28.18
Method or combination of methods to direct	tly deliver CCR to each bill payi	ng customer. Check all	that apply.
Mail or hand deliver a paper copy of CCR. Mail or hand deliver notification that the CC Email notification that CCR is available at CE Email notification that CCR is attached to the Email notification that CCR is embedded in If using notification of CCR availability: 1. Mail a paper CCR to customers who re 2. Include a copy of the notification to the 3. Explain the nature of the notification, publication of CCR Available Message: Your annual report on the sow www.anytown.gov/waterqualityrepo	CR is available at a direct URL. Date (s) emailed: he email. Date (s) emailed: he equest it and to customers known a DEQ district office with this certiforominently display the direct URL bility Subject Line: 2012 Drinking burce and quality of your drinking burce and quality of your drinking to the control of the c	to be incapable of receivification form. in include statement how to water Quality Report Avawater is available on the	ring electronically. to request a paper copy. ailable.
water@anytown.gov. Option for supplies serving fewer than 1 newspaper(s) in which CCR published, ma statement how to request a paper copy. Date(s) of publication: (0.19.2018 Option for supplies serving 500 or fewer posting in public places, that a copy of the Date(s) of notification:	10,000 persons: Publish entire re il, email or hand delivery that indiv	eport in newspaper, <u>and</u> n vidual copies will not be n vd	notify customers via nailed, <u>and</u> include
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☐ Internet address: ► ► A		Date accessible:	
Good Faith" efforts to reach non-bill-paying Mail the report to all postal patrons. Zip cool Mail to each service connection physical ac Advertise the availability of the report in the Publish the report in a local newspaper. Post the report in public places such as caf Deliver multiple copies for distribution by sin Deliver the report to community organizatio Other: Posted to Caty Hall an Send to the DEQ a copy of the news articles, a delivered to and dates.	des and dates mailed: ddress. Date(s) mailed: e newspapers, on TV, and on the refeterias in public buildings, librarie ngle-bill customers, e.g., apartments.	radio. s, churches, and schools nts or private employers.	
A Tier 3 Public Notice is Distributed with this			
This CCR is being used to deliver a Tier 3 F must be directly delivered to each bill paying 12 months of learning of the violation. A concustomers to meet the public notification reconstruction.	g customer or, with DEQ approval	COntinuously posted or	ad marrad had based
Name/Title: DIC Mark Paolin			
Signature:		Date: (, ?	8.18

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF

STATE OF MICHIGAN COUNTY OF BERRIEN

Amy Loshbough, being duly sworn, deposes and says the printed copy of a notice was taken from: the Tri-City Record, a newspaper printed and Circulated in, County of Berrien and County of Van Buren State of Michigan and that said notice was published 1 time in said newspaper. With first insertion being on June 21, 2018 and final insertion being June 21, 2018 Subscribed before me on this 28 day of September, 2018 Amy Loshbough is the agent of the printers of said newspaper, and knows well the facts stated herein.

Amy Loshbough

Subscribed and sworn to before me this 28 day of September, 2018

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18, 2018

2017 Water Quality Report for CITY OF WATERVLIET

This report covers the drinking water quality for CITY OF WATERVLIET for the 2017 calendar year. This information is a snapshot of the quality of the water that we provided to you in 2017. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards.

Your water comes from 3 WELLS groundwater wells, each over 176 FEET drawing from PAW PAW LAKE watershed. The State performed an assessment of our source water in 2003 to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from "very-low" to "veryhigh" based on geologic sensitivity, well construction, water chemistry and contamination sources. The susceptibility of our source is WELL PW-1 AND PW-2 and PW-4 have a moderate susceptibility while PW-3 possesses a high susceptibility to get a copy of this report call city hall. WE HAVE ALSO PUT IN A NEW IRON REMOVAL PLANT IN WHICH WE HAVE BEGUN CHLORINATING AND IT WENT ON LINE IN THE MONTH OF OCTOBER OF 2014 WELLS PW-1 AND PW-2 AND PW-4 ARE RUN TO THE IRON PLANT AND PW-3 IS A STAND BY WELL ONLY TO BE USED IN A EMERGENCY SITUATION AND SINCE WE HAVE BEEN TESTING AT THE PLANT WE HAVE BEEN TAKING 98% OF THE IRON OUT OF OUR OUTGOING WATER INTO THE SYSTEM THEREFORE GIVING US THE ABILITY PRODUCE AND SERVE COMMUNITY A MUCH BETTER PRODUCT THAN PREVIOUSLY to give you a better source of drinking

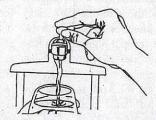
If you would like to know more about the report please contact city hall or call MARK BOLIN AT 269-463 -4041

- Contaminants and their presence in 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 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. compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS

or other immune systems 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).

- 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 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 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 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 and residential uses.
 - Radioactive contaminants, which can be naturally occurring or be 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 stormwater runoff, and septic systems.

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 regulations establish limits for contaminants in bottled water which provide the same protection for public health.

Water Quality Data

The table below lists all the drinking water contaminants that we detected during the 2017 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, 2017. 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.

Terms and abbreviations used below:

- 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): means the highest level of a disinfectant allowed in drinking water.

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There is convincing evidence that addition of a distillectant is necessary for control of the distillectant serious.

 Maximum Residual Disinfectant Level Goal (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.

N/A: Not applicable ND: not detectable at testing limit pb: parts per billion or micrograms per liter ppm: parts per million or milligrams per liter pCi/l: picocuries per liter (a measure of radioactivity).

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

Regulated Contaminant	MCL	MCLG	Highest Level Detected	. Range	Year Sampled	Violation Yes / No	Typical Source of Contaminant
Arsenic (ppb)	10	0	6	0-6	9-21-17	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium . (ppm)	2	2	0.43	0.13-0.43	9-16-14	No .	Discharge of drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	0.20	0.18-0.20	2017	NO	Erosion of natural deposits. Discharge from fertilizer and aluminum factories.
TTHM - Total Trihalomethanes (ppb)	80	N/A	26.5	19.8-26.5	2017	NO	Byproduct of drinking water disinfection
HAA5 Haloacetic Acids (ppb)	60	N/A	5	4-5	2017	NO .	Byproduct of drinking water disinfection
Chlorine	MRDL	MRDLG	.52	.0.21-0.91	2017	NO	Water additive used to control microbes
(ppm)	4	4	.52	.0.21-0.91	2017	NO	Trace addition and to control line open
Radioactive Contaminant	MCL	MCLG	Highest Level Detected	Range	Year Sampled	Violation Yes / No	Typical Source of Contaminant
Combined radium (pCi/L)	5	0	2.04	0.72-2.04	9-25-17	NO	Erosion of natural deposits,
Contaminant Subject to AL	Action Level	MCLG		Samples s Level	Year Sampled	Number of Samples Above AL	Typical Source of Contaminant
Lead (ppb) **	15	0	1	ppb	2015	0	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	1.3	0.2	PPM ·	2015	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Special Monit Unregulated Co	toring an	d nt *	Average Level Detected	Range	Year Sampled		Comments
Sodium	(mgq)		15	12-18	2017	Турі	cal source is erosion of natural deposits

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. CITY OF WATERVLIET 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.

Microbial Contaminants	MCL	MCLG	Number Detected	Violation Yes / No	Typical Source of Contaminant
Total Coliform Bacteria	>1 positive monthly sample (>5.0% of monthly samples positive)	0	0	- NO	Naturally present in the environment
Fecal Coliform and E. coli	Routine and repeat sample total coliform positive, and one is also fecal or <i>E. coli</i> positive	0	0	NO	Human and animal fecal waste

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. 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.

We will update this report annually and will keep you informed of any problems that may occur throughout the year, as they happen. Copies are available at CITY HALL 158 WEST PLEASANT This report will not be sent to you.

We invite public participation in decisions that affect drinking water quality. THE CITY COUNCEL MEETING ARE HELD THE SECOND TUESDAY OF EACH MONTH AT 6;30.. For more information about your water, or the contents of this report, contact MARK BOLIN AT 269-463-4041. For more information about safe drinking water, visit the U.S. Environmental Protection Agency at www.epa.gov/safewater/.

A paper copy of the CCR is available to be picked up at Watervliet City Hall.

A copy can be mailed if requested.