



KALAMAZOO COUNTY GOVERNMENT

In the Pursuit of Extraordinary Governance...

To: Patrick McVerry

City of Kalamazoo Parks & Recreation

From: Alayna Anamoah, Environmental Health Specialist
Environmental Health Unit

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Date: August 30, 2022

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Regarding: Weekly Bathing Beach Monitoring Results for Woods Lake at Woods Lake City Park

Please find attached the most current bacteriological results for surface water on Woods Lake at Woods Lake City Park. Environmental Health Unit staff collect water samples following departmental procedures and deliver the samples to the Kalamazoo County Health and Community Services Laboratory; the laboratory analyzes the samples for E. coli bacteria. This report is sent as soon as the Environmental Health Unit receives notification from the Kalamazoo County Health and Community Services Laboratory.

All bathing beach results are posted on the Michigan Department of Environmental Quality beach monitoring web site at www.deq.state.mi.us/beach.

Daily Geometric Mean -- Average of all samples collected on given date.

Date	Time	Result	Michigan Water Quality Standards
Monday, August 29, 2022	11:00 AM	11 colonies / 100 mL water	Meets Standard

- Based on the most recent sampling, the bathing beach is currently in compliance with Michigan Water Quality Standards for total body contact recreation standards.
- Based on the most recent sampling, the bathing beach is currently in violation with Michigan Water Quality Standards for total body contact recreation standards of 300 Escherichia coli (E. coli) colonies bacteria per 100 milliliters.
- Based on the most recent sampling, the bathing beach is currently in violation with Michigan Water Quality Standards for partial body contact recreation standards of 1000 Escherichia (E. Coli) colonies bacteria per 100 milliliters.

30-Day Geometric Mean -- Average of all samples collected over the past 30 days.

Samples Collected Between	Number of Samples	Result	Michigan Water Quality Standards
8/1/2022 to 8/29/2022	15	28 colonies / 100 mL water	Meets Standard

- Based on the past 30 days of sampling, the bathing beach is currently in compliance with Michigan Water Quality Standards for total body contact recreation standards.
- Based on the past 30 days of sampling, the bathing beach is currently in violation with Michigan Water Quality Standards for total body contact recreation standards of 130 Escherichia coli (E. coli) colonies bacteria per 100 milliliters.
- The Michigan Water Quality Standard has not officially been exceeded until 30 days of sampling have been completed. This beach is not considered in violation of the 30-Day Geometric Mean at this time.

HEALTH AND COMMUNITY SERVICES DEPARTMENT

Environmental Health Unit – Surface Water Monitoring Program

311 East Alcott St. | Kalamazoo, MI 49001

Phone: 269-373-5351 | www.kalcounty.com/eh/bathing-beach

Report Date: August 30, 2022

Site Code: KB-08

Bathing beach and water quality monitoring results for Woods Lake at Woods Lake City Park.

Date	Time	Weather	Wind	Wind Temp (F)	Wind Speed (mph)	Wind Direction	Water Temp. (F)	E. coli (MPN)	
								Daily GM	30-Day GM
5/23/2022	11:00 AM	Clear	Slight Breeze	58	1	SE	66.0	33.9	----
5/31/2022	10:42 AM	Clear	Slight Breeze	81.8	3.9	NE	76.0	9.3	----
6/6/2022	10:45 AM	Overcast	Calm	75.2	0	SW	72.0	1.8	----
6/13/2022	11:30 AM	Clear	Calm	77			78.0	30.1	----
6/20/2022	11:05 AM	Clear	Slight Breeze	81.6	1.1		78.0	42.6	14.9
6/27/2022	11:00 AM	Clear	Slight Breeze	72.5	3.8	NW	76.0	22.5	13.8
7/5/2022	10:50 AM	Overcast	Slight Breeze	73	2.7	W	N/A	273.8	27.1
7/11/2022	11:05 AM	Partly Cloudy	Slight Breeze	78	2.1	SE	76.0	11.0	38.8
7/18/2022	11:20 AM	Clear	Calm	81	0	W	78.0	8.8	30.3
7/25/2022	10:50 AM	Clear	Slight Breeze	74	3.6	W	79.0	6.4	20.7
8/1/2022	3:44 PM	Partly Cloudy	Slight Breeze	83		NW	78.0	98.2	27.8
8/9/2022	11:00 AM	Partly Cloudy	Slight Breeze	71	1.5	W	79.0	20.9	16.6
8/15/2022	11:40 AM	Clear	Calm	78	0.6	W	74.0	17.0	18.1
8/22/2022	11:20 AM	Partly Cloudy	Slight Breeze	77	1.0	NW	78.0	48.9	25.6
8/29/2022	11:00 AM	Overcast	Calm	78	0.8		77.0	10.7	28.4

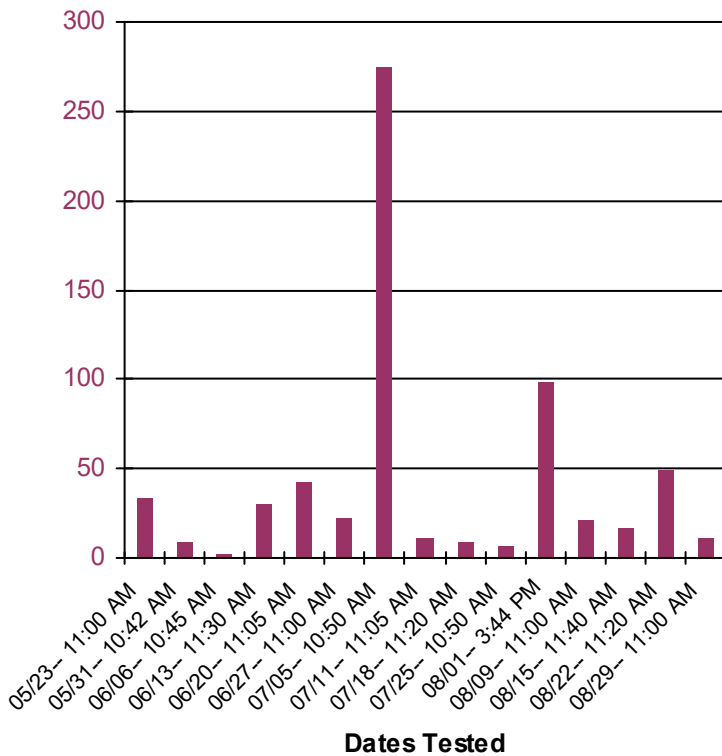
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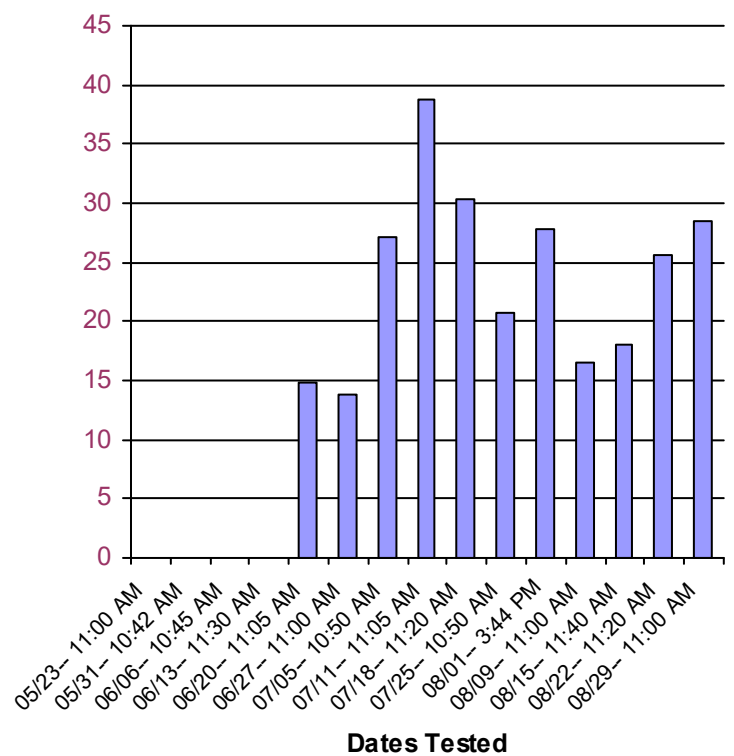
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**2022 Summary of Escherichia coli (E. coli) Bacteria
Woods Lake at Woods Lake City Park**

Daily Geometric Mean
Must be under 300



30-Day GM
Must be under 130



E. coli standards for surface water used for total body contact recreation are provided in the Michigan Public Health Code and Rule 323.1062(1) of the Part 4. Water Quality Standards (Promulgated pursuant to Part 31 of the Natural Resources and Environmental Protection Act, 1997 PA 451, as amended). The rule states the following:

*R 323.1062 Microorganisms.
Rule 62.*

- (1) All waters of the state protected for total body contact recreation shall not contain more than 130 Escherichia coli (E. coli) per 100 milliliters, as a 30-day geometric mean. Compliance shall be based on the geometric mean of all individual samples taken during 5 or more sampling events representatively spread over a 30-day period. Each sampling event shall consist of 3 or more samples taken at representative locations within a defined sampling area.*
- (2) At no time shall the waters of the state protected for total body contact recreation contain more than a maximum of 300 E. coli per 100 milliliters. Compliance shall be based on the geometric mean of 3 or more samples taken during the same sampling event at representative locations within a defined sampling area.*
- (3) All waters of the state protected for partial body contact recreation shall not contain more than a maximum of 1000 E. coli per 100 milliliters. Compliance shall be based on the geometric mean of 3 or more samples, taken during the same sampling event, at representative locations within a defined sampling area.*