

# Bureau of Laboratories

MICHIGAN DEPARTMENT OF HEALTH AND HUMAN SERVICES  
PO BOX 30035  
3350 N. MARTIN LUTHER KING, JR. BLVD  
LANSING, MI 48906  
**PHONE:** (517)335-8059  
**FAX:** 5173359871

## Microcystins/Nodularin-Recreational water Report

**REPORT TO:** MDHHS-ALEX RAFALSKI  
333 S GRAND AVE

**SUBMITTING AGENCY:** MICHIGAN DEPT OF ENV, GREAT LAKES AND ENERGY - HABS  
**AGENCY ID#:** 941751  
525 W Allegan Street  
Lansing, MI 48909

**Date Reported:** 07/05/2024 at 6:43 pm

**Report Number:** 5515604

**Method:** Analysis of Microcystins in Recreational Water by LC-MSMS, based upon EPA 544

**Received Date:** 6/28/2024 12:00:00AM

**Instrument:** LC-MSMS

**Received Time:** 1:45:00PM

**Collected By:** NOLAND ENSING

**Sample ID:** EN24-250012

**Collection Date:** 06/26/2024

**Sample Description:** HESS LAKE DOCK AT 9265 CATALPA

**Collection Time:** 1615

**Date Analyzed:** 7/3/2024

Analyte	Result	RL	Units	Dilution	ISTD % Rec	Qualifier
MC-HTYR	<0.5	0.5	µg/L	1.00000	113.09	
MC-LA	<0.5	0.5	µg/L	1.00000	123.60	
MC-LF	<0.5	0.5	µg/L	1.00000	123.60	
MC-LR	37.0	0.5	µg/L	1.00000	113.09	
MC-LR Asp3	1.4	0.5	µg/L	1.00000	113.09	
MC-LW	<0.5	0.5	µg/L	1.00000	123.60	
MC-LY	<0.5	0.5	µg/L	1.00000	123.60	
MC-RR	37.4	0.5	µg/L	1.00000	113.09	
MC-WR	0.9	0.5	µg/L	1.00000	113.09	
MC-YR	4.7	0.5	µg/L	1.00000	113.09	
Nodularin	<0.5	0.5	µg/L	1.00000	113.09	
<b>Total Microcystin</b>	<b>81.4</b>		µg/L		0.00	

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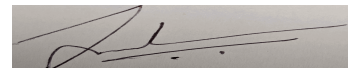
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Qualifiers:	Description
B	Detectable levels above the RL were found in the laboratory blank.
C	Sample compromised during extraction. Calculated result is not possible.
D	A dilution was performed to obtain a calculated result within the analytical measurement range.
Hp	Sample hold time exceeded prior to extraction.
Ha	Sample hold time exceeded after extraction.
T	Intake temperature of sample exceeded 10° C.
QNS	Bottle arrived broken or empty.
ISS	Internal standard is outside of the established range.
IR	Reference ion ratio is outside of the established range.

Reviewed By:



Bibin Paulose (Lab Scientist)