

Customer

Waterbody

Sample Information

North Lake (Muskegon)

North Lake

Date: 4/23/2019

Site: Deep Hole

30

On-Site Results

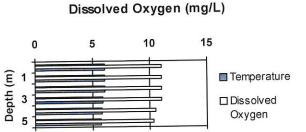
Depth	Temperature	Dissolved	Oxygen
(m)	(degrees C)	mg/L	%
0	12.2	11.0	103
1	12.2	11.0	103
2	12.2	11.0	103
3	11.8	11.0	101
4	11.6	10.5	100
5	11.5	10.4	99
0	OF MARKON NO MORE CHARLES	NAMES AND DESCRIPTIONS	

Secchi Disk Depth

3.5 meters

Thermocline Depth

meters



20

Temperature (C)

10

0

Analytical Results

Parameter	Result	Units	Interpretation	
Fecal Bacteria (E. coli		CFU/100 mL	N/A	
Conductivity	92	uS/cm	Low concentration of dissolved salts	
Total Dissolved Solids	60	mg/L	LOW Concentration of dissolved sates	
pH	7.7	S.U.	Water is slightly alkaline	
Alkalinity	61	mg CaCO3/	LWater is soft	
Total Phosphorus	7	ug/L	Slightly phosphorus enriched	
Nitrates	200	ug/L	Not nitrogen enriched	
Chlorophyll	N/A			

Trophic State Evaluation

	TSI	Trophic Status
cchi Dick Denth	42	mesotrophic

Based on Secchi Disk Depth 28 oligotrophic Based on Total Phosphorus

Based on Chlorophyll N/A

Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- Repeat LakeCheck in Fall.
- WARNING. condition requires immediate attention.
- CAUTION, condition requires further evaluation.
- OK. condition within acceptable limits.
- NEUTRAL, condition neither good nor bad.

Notes

Report describes conditions at the time the sample was collected.

Approved by

Mrs. Jaimee Conroy, Technical Services Manager

Date 11/21/201

FROM YOUR





PLM Lake & Land Management Corp P.O. Box 132

Caledonia MI 49316-

Phone: (616) 891-1294



CHECK Water Quality Monitoring Report

Customer

Waterbody

Sample Information

North Lake (Muskegon)

North Lake

Date: 9/4/2019

Site: Deep Hole

On-Site Results

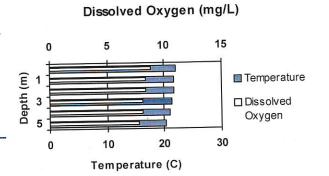
Depth		Temperature	Dissolved Oxygen	
110	(m)	(degrees C)	mg/L	%
	0	22.0	8.9	90
	1	21.7	8.4	83
	2	21.6	8.4	82
	3	21.4	8.2	81
	4	21.0	8.1	80
	5	20.3	7.8	76
		1 D. 1 D. 4-	2.0 meters	

Secchi Disk Depth

3.0 meters

Thermocline Depth

meters



Analytical Results

Parameter Parameter	Result	Units	Interpretation	
Fecal Bacteria (E. coli		CFU/100 mL	N/A	
Conductivity	95	uS/cm	Low concentration of dissolved salts	
Total Dissolved Solids	62	mg/L		
pН		S.U.	Water is slightly alkaline	
Alkalinity	45	mg CaCO3/	LWater is very soft	
Total Phosphorus	6	ug/L	Slightly phosphorus enriched	
Nitrates	200	ug/L	Not nitrogen enriched	
Chlorophyll	N/A			

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	26	oligotrophic
Based on Chlorophyll	N/A	

Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
- Phosphorus and Nitrogen are within acceptable limits.
- REPEAT LakeCheck NEXT YEAR!
- WARNING. condition requires immediate attention.
- CAUTION, condition requires further evaluation.
- OK. condition within acceptable limits.
- NEUTRAL. condition neither good nor bad.

Notes

Report describes conditions at the time the sample was collected.

Approved by

Mrs. Jaimee Cohroy, Technical Services Manager

Date 11/21/2019

FROM YOUR





PLM Lake & Land Management Corp P.O. Box 132

Caledonia MI 49316-

Phone: (616) 891-1294



Bacteria Sampling Report

Waterbody:

North Lake (Muskegon)

North Lake (Muskegon)

Date Sampled:

7/9/2019

Location	E. coli	Total Coliforms	Interpretation
#1	1	N/A	Water meets bacteriological standards for safe swimming.
#2	1	N/A	Water meets bacteriological standards for safe swimming.
#3	1	N/A	Water meets bacteriological standards for safe swimming.

Bacterial counts are expressed as the number of Colony Forming Units per 100 milliliters (CFU/100mL).

For full body contact recreation (including swimming) counts of E. coli should not exceed 130 (CFU/100mL)as a monthly geometric mean of at least five samples per the State of Michigan standard, or single samples should not exceed 298 (CFU/100mL) [235 CFU/100mL in a designated bathing beach area] per Federal (EPA) guidelines.

Current recreational water quality standards do not rely on Total Coliform counts.

Approved by

Ars. Jaimee Conroy, Technical Services Manager

Date 11-Jul-19



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