

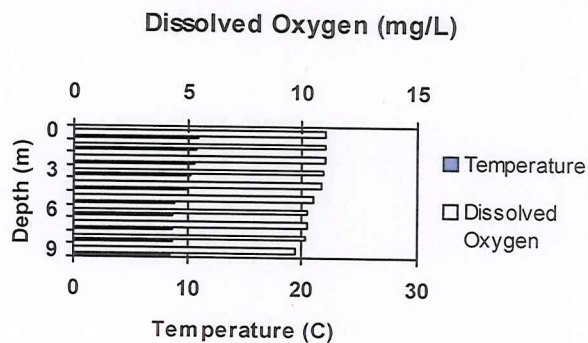
LAKE CHECK Water Quality Monitoring Report

2019441

Customer	Waterbody	Sample Information
Six Mile Lake	six mile lake	Date: 5/6/2019 Site: middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	10.9	11.0	99
1	10.8	11.0	99
2	10.5	11.0	98
3	10.3	10.9	97
4	9.8	10.9	96
5	8.9	10.4	90
6	8.7	10.2	89
7	8.7	10.2	88
8	8.6	10.1	87
9	8.5	9.7	83



Secchi Disk Depth 3.5 meters

Thermocline Depth meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	282	uS/cm	
Total Dissolved Solids	184	mg/L	Low concentration of dissolved salts
pH	8.2	S.U.	Water is slightly alkaline
Alkalinity	149	mg CaCO3/L	Water is hard
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	289	ug/L	Slightly nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	42	mesotrophic
Based on Total Phosphorus	28	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 in Fall.

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- 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

Jaimee Conroy

Date _____

Mrs. Jaimee Conroy, Technical Services Manager

FROM YOUR **WQ
PRO** DEALER



PLM Lake & Land Management Corp
P.O. Box 132
Caledonia MI 49316-
Phone: (616) 891-1294



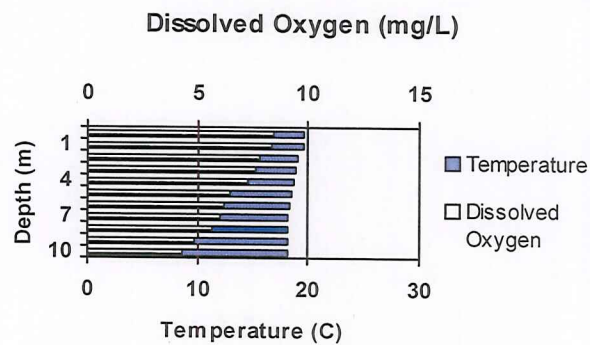
Water Quality Monitoring Report

2019442

Customer	Waterbody	Sample Information
Six Mile Lake	Six Mile Lake	Date: 9/11/2019 Site: middle

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	19.6	8.4	92
1	19.5	8.4	91
2	19.1	7.8	85
3	18.9	7.6	82
4	18.7	7.3	78
5	18.5	6.5	70
6	18.3	6.2	66
7	18.2	6.1	64
8	18.2	5.6	60
9	18.1	4.9	60
10	18.1	4.3	46



Secchi Disk Depth 2.8 meters

Thermocline Depth meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	334	uS/cm	
Total Dissolved Solids	218	mg/L	Moderate concentration of dissolved salts
pH	8.4	S.U.	Water is slightly alkaline
Alkalinity	187	mg CaCO ₃ /L	Water is very hard
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	45	mesotrophic
Based on Total Phosphorus	28	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!

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- 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

Jaimee Conroy

Date _____

Mrs. Jaimee Conroy, Technical Services Manager

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Bacteria Sampling Report

Waterbody:
Six Mile

Six Mile Lake

Date Sampled:
7/17/2019

Location	<i>E. coli</i>	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	2	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 _____ Date 22-Jul-19
Mrs. Jaimee Conroy, Technical Services Manager



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