

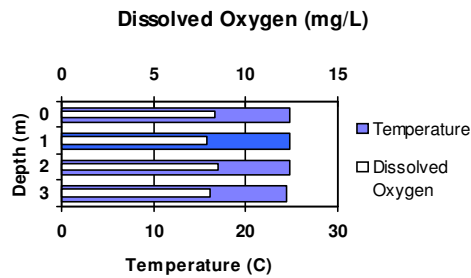
LAKE CHECK Water Quality Monitoring Report

2024016

Customer	Waterbody	Sample Information
Thornapple River Cascade	Thornapple River Cascade	Date: 8/29/2024
		Site: #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	24.8	8.3	77
1	24.8	7.9	73
2	24.8	8.5	78
3	24.5	8.1	76



Secchi Disk Depth	1.5 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	526	uS/cm	
Total Dissolved Solids	406	mg/L	Moderate concentration of dissolved salts
pH	8.4	S.U.	Water is slightly alkaline
Alkalinity	245	mg CaCO3/L	Water is very hard
Total Phosphorus	17	ug/L	Moderately phosphorus enriched
Nitrates	1190	ug/L	Moderately nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	54	moderately eutrophic
Based on Total Phosphorus	41	mesotrophic
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.
- Sample is somewhat nutrient (N and P) enriched. Adopt appropriate lakeshore landscaping and lawn care practices.
- 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

Jaimee Desjardins

Date 10/7/2024

Mrs. Jaimee Desjardins, Technical Services Manager

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PRO** DEALER



PLM Lake & Land Management Corp
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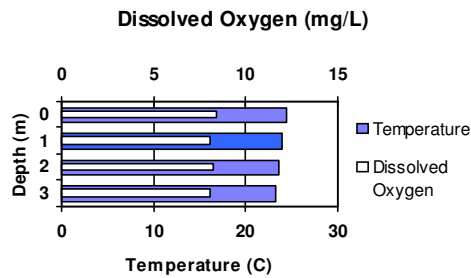
Water Quality Monitoring Report

2024017

Customer	Waterbody	Sample Information
Thornapple River Cascade	Thornapple River Cascade	Date: 8/29/2024
		Site: #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	24.5	8.4	77
1	24.0	8.1	71
2	23.6	8.2	73
3	23.2	8.1	72



Secchi Disk Depth 1.5 meters
 Thermocline Depth meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	523	uS/cm	
Total Dissolved Solids	404	mg/L	Moderate concentration of dissolved salts
pH	8.4	S.U.	Water is slightly alkaline
Alkalinity	252	mg CaCO3/L	Water is extremely hard
Total Phosphorus	21	ug/L	Moderately phosphorus enriched
Nitrates	1240	ug/L	Nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	54	moderately eutrophic
Based on Total Phosphorus	44	mesotrophic
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.
- Sample is somewhat nutrient (N and P) enriched. Adopt appropriate lakeshore landscaping and lawn care practices.
- REPEAT LakeCheck NEXT YEAR!

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