

LAKE CHECK Water Quality Monitoring Report

2025500

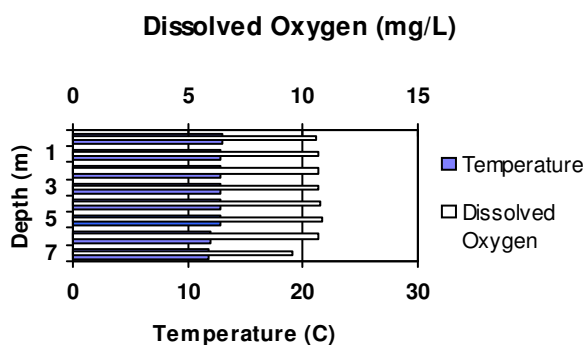
Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 5/6/2025
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	13.0	10.6	100
1	12.9	10.7	101
2	12.9	10.7	101
3	12.9	10.7	101
4	12.8	10.8	102
5	12.8	10.8	102
6	12.0	10.6	99
7	11.8	9.6	88

Secchi Disk Depth 5.0 meters

Thermocline Depth meters



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	204	uS/cm	
Total Dissolved Solids	133	mg/L	Low concentration of dissolved salts
pH	8.4	S.U.	Water is slightly alkaline
Alkalinity	87	mg CaCO ₃ /L	Water is soft
Total Phosphorus	17	ug/L	Moderately phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	37	meso-oligotrophic
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 phosphorus enriched. Create natural buffer between lawn & lakeshore.
- REPEAT LakeCheck Soon!!

-
- 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 _____

Mrs. Jaimee Desjardins, Technical Services Manager

FROM YOUR



DEALER



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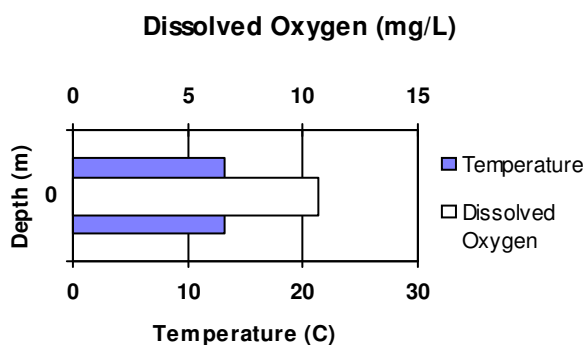
LAKE CHECK Water Quality Monitoring Report

2025501

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 5/6/2025
		Site: Site #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	13.2	10.7	102



Secchi Disk Depth	6.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	204	uS/cm	
Total Dissolved Solids	133	mg/L	Low concentration of dissolved salts
pH	8.2	S.U.	Water is slightly alkaline
Alkalinity	97	mg CaCO3/L	Water is soft
Total Phosphorus	29	ug/L	Moderately phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	34	meso-oligotrophic
Based on Total Phosphorus	48	moderately eutrophic
Based on Chlorophyll	N/A	

Conclusions

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- Minimum dissolved oxygen is adequate for good fish production.
- pH is within acceptable limits.
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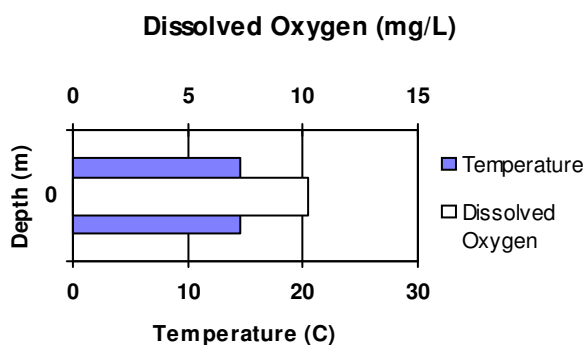
LAKE CHECK Water Quality Monitoring Report

2025502

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 5/6/2025
		Site: Site #3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	14.5	10.3	100



Secchi Disk Depth	3.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	205	uS/cm	
Total Dissolved Solids	133	mg/L	Low concentration of dissolved salts
pH	8.3	S.U.	Water is slightly alkaline
Alkalinity	100	mg CaCO3/L	Water is soft
Total Phosphorus	16	ug/L	Moderately phosphorus enriched
Nitrates	230	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	40	mesotrophic
Based on Chlorophyll	N/A	

Conclusions

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LAKE CHECK Water Quality Monitoring Report

2025503

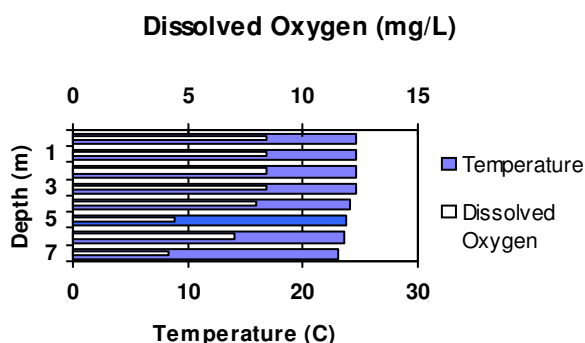
Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 6/30/2025
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	24.6	8.4	101
1	24.7	8.4	102
2	24.6	8.4	102
3	24.6	8.4	102
4	24.1	8.0	95
5	23.8	4.4	88
6	23.6	7.0	83
7	23.1	4.2	49

Secchi Disk Depth 3.3 meters

Thermocline Depth meters



Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	201	uS/cm	
Total Dissolved Solids	130	mg/L	Low concentration of dissolved salts
pH	8.3	S.U.	Water is slightly alkaline
Alkalinity	98	mg CaCO3/L	Water is soft
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	43	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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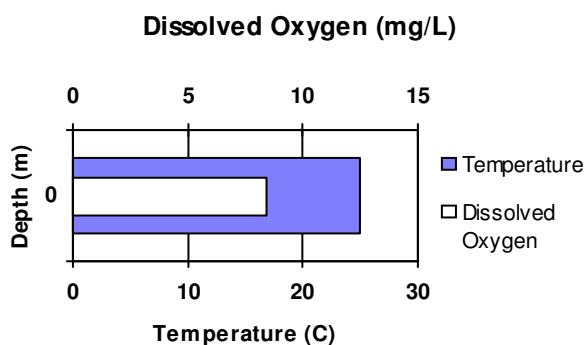
LAKE **CHECK** Water Quality Monitoring Report

2025504

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 6/30/2025
		Site: Site #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	24.9	8.4	102



Secchi Disk Depth	6.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	200	uS/cm	
Total Dissolved Solids	130	mg/L	Low concentration of dissolved salts
pH	8.3	S.U.	Water is slightly alkaline
Alkalinity	106	mg CaCO3/L	Water is soft
Total Phosphorus	12	ug/L	Moderately phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.11	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	34	meso-oligotrophic
Based on Total Phosphorus	36	meso-oligotrophic
Based on Chlorophyll	32	meso-oligotrophic

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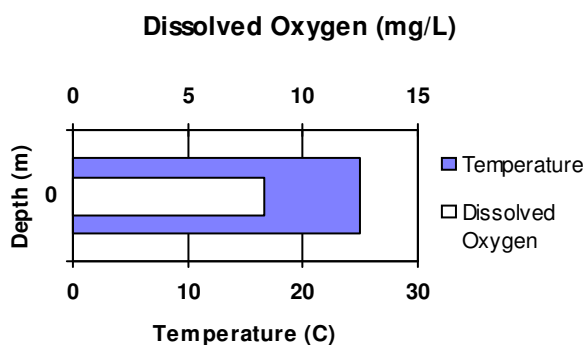
LAKE CHECK Water Quality Monitoring Report

2025505

Customer	Waterbody	Sample Information
Missaukee Lake	Missaukee	Date: 6/30/2025
		Site: Site #3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen mg/L	%
0	24.9	8.3	100



Secchi Disk Depth	3.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	202	uS/cm	
Total Dissolved Solids	131	mg/L	Low concentration of dissolved salts
pH	8.0	S.U.	Water is slightly alkaline
Alkalinity	127	mg CaCO3/L	Water is hard
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.57	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	44	mesotrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	35	meso-oligotrophic

Conclusions

- Conditions are good for fish growth.
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- Phosphorus and Nitrogen are within acceptable limits.
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