



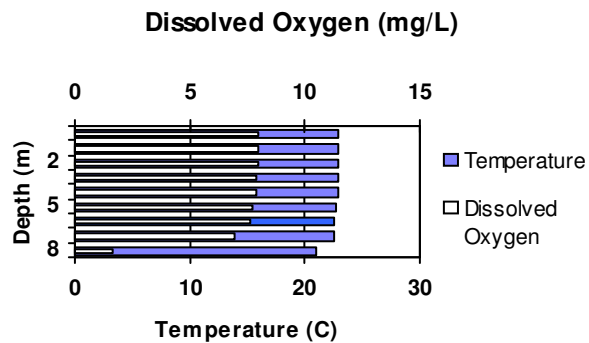
Water Quality Monitoring Report

2021460

Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 7/8/2021
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	22.9	8.0	93
1	22.9	8.0	93
2	22.9	8.0	93
3	22.9	7.9	92
4	22.9	7.9	92
5	22.7	7.7	90
6	22.6	7.6	88
7	22.5	6.9	80
8	21.0	1.6	18



Secchi Disk Depth 2.0 meters
 Thermocline Depth meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	183	uS/cm	
Total Dissolved Solids	119	mg/L	Low concentration of dissolved salts
pH	8.4	S.U.	Water is slightly alkaline
Alkalinity	86	mg CaCO3/L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	3.11	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	42	mesotrophic

Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is nearly low enough to adversely affect sensitive fish.
- 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 Jaimee Desjardins Date _____
Mrs. Jaimee Desjardins, Technical Services Manager

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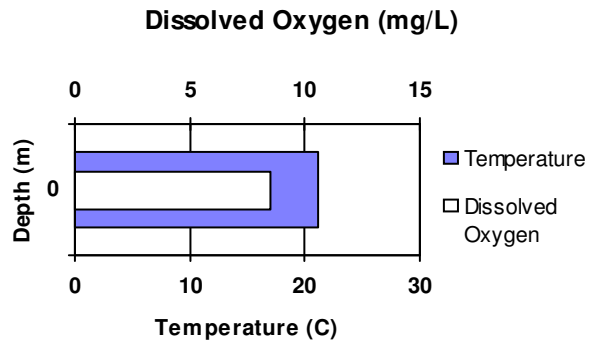
LAKE CHECK Water Quality Monitoring Report

2021461

Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 7/8/2021
		Site: Site #3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	21.2	8.5	96



Secchi Disk Depth	2.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	181	uS/cm	
Total Dissolved Solids	118	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	85	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	2.99	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	41	mesotrophic

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

Jaimee Desjardins

Date _____

Mrs. Jaimee Desjardins, Technical Services Manager

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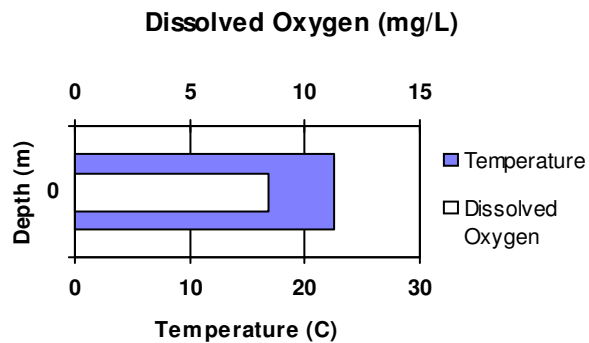
Water Quality Monitoring Report

2021462

Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 7/8/2021
		Site: Site #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	22.6	8.4	97



Secchi Disk Depth	2.0 meters
Thermocline Depth	meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	182	uS/cm	
Total Dissolved Solids	119	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	89	mg CaCO3/L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.94	ug/L	Low algae production

Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	50	moderately eutrophic
Based on Total Phosphorus	28	oligotrophic
Based on Chlorophyll	37	meso-oligotrophic

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

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Date _____

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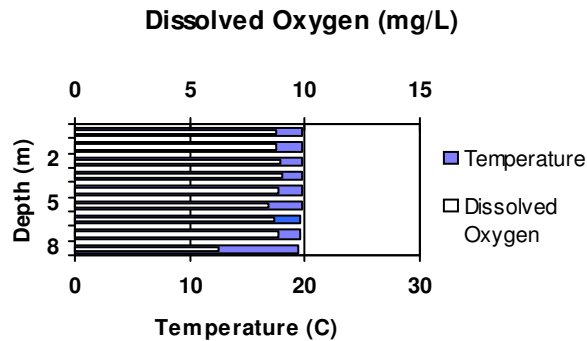
LAKE CHECK Water Quality Monitoring Report

2021463

Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 9/16/2021
		Site: Site #1

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	19.7	8.8	96
1	19.8	8.8	96
2	19.8	8.9	97
3	19.7	9.0	98
4	19.7	8.8	96
5	19.7	8.4	94
6	19.7	8.6	94
7	19.6	8.8	96
8	19.5	6.2	79



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	166	uS/cm	
Total Dissolved Solids	120	mg/L	Low concentration of dissolved salts
pH	8.7	S.U.	Water is slightly alkaline
Alkalinity	95	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.01	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	31	meso-oligotrophic

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.
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Notes

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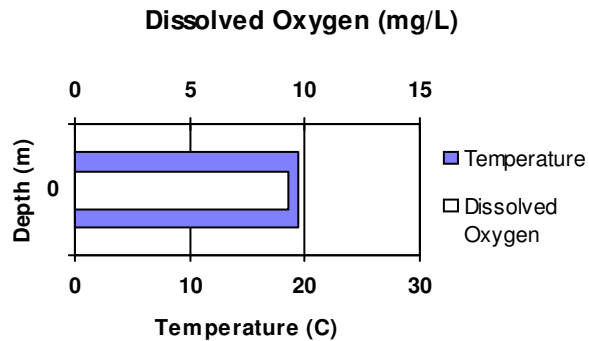
Water Quality Monitoring Report

2021464

Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 9/16/2021
		Site: Site #2

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	19.4	9.3	101



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	165	uS/cm	
Total Dissolved Solids	120	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	95	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.14	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	32	meso-oligotrophic

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.
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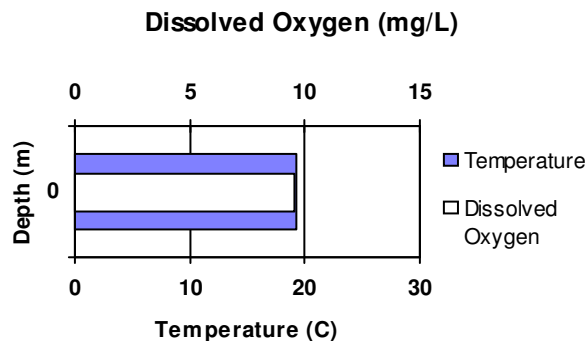
LAKE CHECK Water Quality Monitoring Report

2021465

Customer	Waterbody	Sample Information
Missaukee Lake	Lake Missaukee	Date: 9/16/2021
		Site: Site #3

On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	19.3	9.6	103



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	165	uS/cm	
Total Dissolved Solids	120	mg/L	Low concentration of dissolved salts
pH	8.6	S.U.	Water is slightly alkaline
Alkalinity	95	mg CaCO ₃ /L	Water is soft
Total Phosphorus	7	ug/L	Slightly phosphorus enriched
Nitrates	230	ug/L	Not nitrogen enriched
Chlorophyll	1.19	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	32	meso-oligotrophic

Conclusions

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