

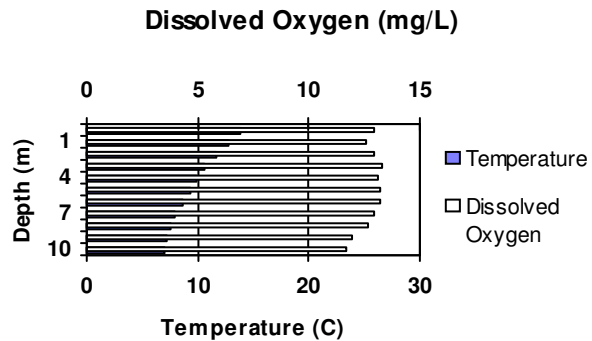


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Crystal Lake (Jackson)	Crystal Lake	Date: 4/18/2016
	Area: acres	Site: Deep Hole
	Depth: Feet (max)	
	Feet (avg.)	

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	13.8	13.0	118
1	12.7	12.6	120
2	11.6	12.9	119
3	10.6	13.3	119
4	9.9	13.1	116
5	9.3	13.2	115
6	8.6	13.2	114
7	8.0	12.9	109
8	7.6	12.7	106
9	7.2	12.0	104
10	7.1	11.7	96



Secchi Disk Depth 5.0 meters  
 Thermocline Depth 3 meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	287	uS/cm	
Total Dissolved Solids	186	mg/L	Low concentration of dissolved salts
pH	7.9	S.U.	Water is slightly alkaline
Alkalinity	112	mg CaCO3/L	Water is soft
Total Phosphorus	10	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	37	meso-oligotrophic
Based on Total Phosphorus	33	meso-oligotrophic
Based on Chlorophyll	N/A	

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## 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 11/30/2016

Mrs. Jaimee Conroy, Technical Services Manager

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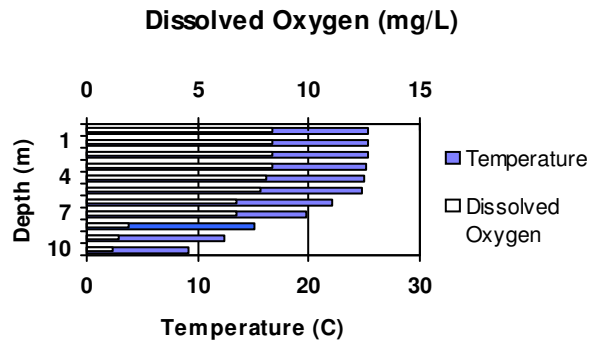


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Crystal Lake (Jackson)	Crystal Lake	Date: 8/24/2016
	Area: acres	Site: Deep Hole
	Depth: Feet (max)	
	Feet (avg.)	

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen (mg/L)	
		mg/L	%
0	25.4	8.3	101
1	25.3	8.4	102
2	25.3	8.4	102
3	25.2	8.4	102
4	25.0	8.1	98
5	24.8	7.8	94
6	22.1	6.8	78
7	19.9	6.7	75
8	15.1	1.9	195
9	12.4	1.4	14
10	9.2	1.2	9



Secchi Disk Depth 4.0 meters  
 Thermocline Depth 6 meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	273	uS/cm	
Total Dissolved Solids	177	mg/L	Low concentration of dissolved salts
pH	8.3	S.U.	Water is slightly alkaline
Alkalinity	110	mg CaCO3/L	Water is soft
Total Phosphorus	10	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	40	mesotrophic
Based on Total Phosphorus	33	meso-oligotrophic
Based on Chlorophyll	N/A	

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## Conclusions

- Conditions are good for fish growth.
- Minimum dissolved oxygen is nearly low enough to adversely affect sensitive fish.
- Bottom water is deoxygenated, preventing fish from living in cooler water at bottom of lake.
- 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

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Date 11/30/2016

Mrs. Jaimee Conroy, Technical Services Manager

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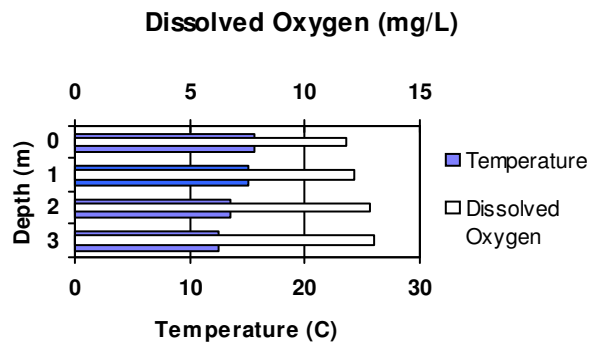
# Water Quality Monitoring Report

2016334

Customer	Waterbody	Sample Information
Perch Lake (Jackson)	Perch Lake	Date: 4/18/2016
		Site: Middle

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	15.6	11.8	119
1	15.1	12.1	120
2	13.4	12.8	123
3	12.4	13.0	123



Secchi Disk Depth	meters
Thermocline Depth	2 meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	284	uS/cm	
Total Dissolved Solids	184	mg/L	Low concentration of dissolved salts
pH	8.2	S.U.	Water is slightly alkaline
Alkalinity	110	mg CaCO3/L	Water is soft
Total Phosphorus	10	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	N/A	
Based on Total Phosphorus	33	meso-oligotrophic
Based on Chlorophyll	N/A	

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## 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.
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## Notes

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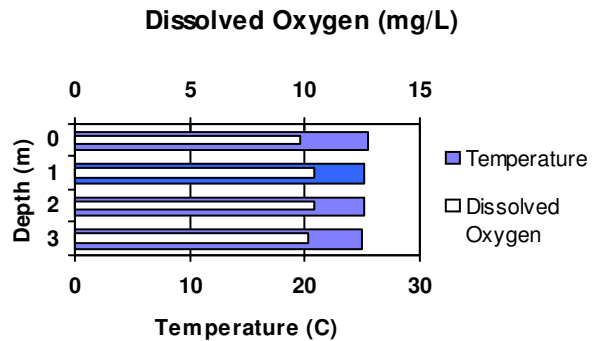


# Water Quality Monitoring Report

Customer	Waterbody	Sample Information
Perch Lake (Jackson)	Perch Lake	Date: 8/24/2016
		Site: Middle

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	25.5	9.8	119
1	25.2	10.4	128
2	25.1	10.4	126
3	25.0	10.1	121



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	183	uS/cm	
Total Dissolved Solids	119	mg/L	Low concentration of dissolved salts
pH	8.2	S.U.	Water is slightly alkaline
Alkalinity	52	mg CaCO3/L	Water is very soft
Total Phosphorus	10	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	44	mesotrophic
Based on Total Phosphorus	33	meso-oligotrophic
Based on Chlorophyll	N/A	

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## 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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