

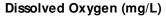
<u>Customer</u> Waterbody	Sample Information
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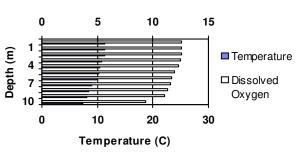
Three Mile Lake Date: 4/13/2017

Site: Deep Hole

On-Site Results

Depth	Temperature	Dissolved	Oxygen
(m)	(degrees C)	mg/L	%
0	11.4	12.6	115
1	11.4	12.6	115
2	11.3	12.6	115
3	10.8	12.5	113
4	10.5	12.3	110
5	10.2	11.9	106
6	9.8	11.7	103
7	9.0	11.6	100
8	8.4	11.3	96
9	8.0	11.1	94
10	7.4	9.3	77





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	133	uS/cm		
Total Dissolved Solids	86	mg/L	Low concentration of dissolved salts	
рН	8.3	S.U.	Water is slightly alkaline	
Alkalinity	48	mg CaCO3/	LWater is very soft	
Total Phosphorus	15	ug/L	Moderately phosphorus enriched	
Nitrates	290	ug/L	Slightly nitrogen enriched	
Chlorophyll	N/A			

Trophic State Evaluation

TSI	Tro		

Based on Secchi Disk Depth 45 mesotrophic Based on Total Phosphorus 39 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 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

Mrs. Jaimee Cohroy, Technical Services Manager

Date 12/4/2017

FROM YOUR





PLM Lake & Land Management Corp P.O. Box 132 Caledonia MI 49316-

Phone: (616) 891-1294



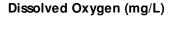
<u>Customer</u> Waterbo	dy Sample Information
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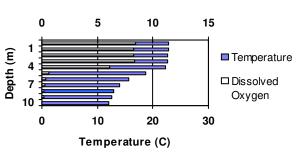
Three Mile Lake Date: 8/28/2017

Site: Deep Hole

On-Site Results

Depth	Temperature	Dissolved (Oxygen	
(m)	(degrees C)	mg/L	%	
0	22.8	8.4	84	
1	22.8	8.2	83	
2	22.7	8.3	83	
3	22.7	8.3	84	
4	22.2	6.1	60	
5	18.7	0.6	7	
6	15.6	0.3	4	
7	14.0	0.3	2	
8	13.0	0.2	1	
9	12.6	0.2	1	
10	12.1	0.1	0	





Secchi Disk Depth

2.5 meters

Thermocline Depth

4.5 meters

Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli		CFU/100 mL	N/A
Conductivity	151	uS/cm	
Total Dissolved Solids	98	mg/L Low concentration of dissolved salts	
pH	8.1	S.U.	Water is slightly alkaline
Alkalinity	46	mg CaCO3/	LWater is very soft
Total Phosphorus	12	ug/L	Moderately phosphorus enriched
Nitrates	262	ug/L	Slightly nitrogen enriched
Chlorophyll	N/A		

Trophic State Evaluation

151	Trophic Status
47	mesotrophic
36	meso-oligotrophic

Based on Total Phosphorus Based on Chlorophyll

Based on Secchi Disk Depth

N/A

Conclusions

- Conditions for fish growth are FAIR. (see cautions/warnings below)
- 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.
- Sample is somewhat phosphorus enriched. Create natural buffer between lawn & lakeshore.
- 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

Date 12/4/2017

Mrs. Jaimee Cohroy, Technical Services Manager

FROM YOUR



PLM EBOOL LAND MANAGEMENT

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