



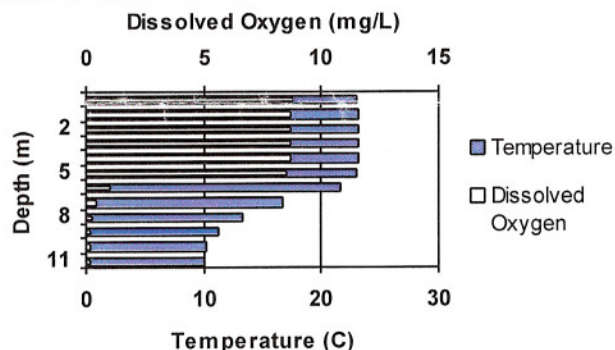
# Water Quality Monitoring Report

2006263

Customer	Waterbody	Sample Information
Three Mile Lake	Three Mile Lake	Date: 8/31/2006
Joyce Beedie PO Box 482 Paw Paw MI 49079		Site: Deep Hole

## On-Site Results

Depth (m)	Temperature (degrees C)	Dissolved Oxygen	
		mg/L	%
0	23.0	8.8	103
1	23.1	8.7	102
2	23.1	8.7	102
3	23.1	8.7	102
4	23.1	8.7	102
5	23.1	8.5	99
6	21.6	1.1	12
7	16.6	0.4	5
8	13.2	0.2	2
9	11.3	0.2	2
10	10.2	0.2	1
11	10.0	0.1	1



Secchi Disk Depth 3.4 meters

Thermocline Depth 5.5 meters

## Analytical Results

Parameter	Result	Units	Interpretation
Fecal Bacteria (E. coli)		CFU/100 mL	N/A
Conductivity	95	uS/cm	
Total Dissolved Solids	65	mg/L	Low concentration of dissolved salts
pH	8.2	S.U.	Water is slightly alkaline
Alkalinity	110	mg CaCO <sub>3</sub> /L	Water is soft
Total Phosphorus	30	ug/L	Moderately phosphorus enriched
Nitrates	560	ug/L	Moderately nitrogen enriched
Chlorophyll	N/A		

## Trophic State Evaluation

	TSI	Trophic Status
Based on Secchi Disk Depth	42	mesotrophic
Based on Total Phosphorus	49	moderately eutrophic
Based on Chlorophyll	N/A	

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## 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. Use phosphorus-free fertilizer on lakeshore lawns.
- Sample is nitrogen enriched. Consider nutrient abatement measures.
- Deep water sample indicates possible internal loading of nutrients.
- REPEAT LakeCheck NEXT YEAR!

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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

  
Mrs. Jaimee Conroy, Technical Services Manager

Date 9/28/2006

FROM YOUR



DEALER



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