

**Masheepe Ponds SNAPSHOT Water Quality History (2001 - 2)** Masheepe Ponds SNAPSHOT History Simplified\_Final1.xls

The following is a summary of the water quality tests for the last 13 years or so on the Masheepe Ponds that MEC monitors. The water samples are tested at UMASS Dartmouth.

I've color coded the cell fill as follows: green for Oligotrophic (best condition), white for medium condition; gold for Eutrophic (bad), purple for Hyper-eutrophic (worst).

For example: Ashmet for 2011 had the best Chlorophyll readings down to 9 meters depth but worst readings for Phosphorus at 21 meters and bad readings for Transparency (Secchi depth).

**TROPIC STATE CLASSIFICATIONS**

<b>Best OLIGO</b>	Mid	<b>Bad EU</b>	<b>Worst Hyper-EU</b>
<b>below 12</b>	12 to 24	<b>above 24</b>	<b>96-384</b>
<b>below 2.6</b>	2.6 to 7.2	<b>above 7.2</b>	<b>56-155</b>
<b>below 4</b>	2 to 4	<b>below 2</b>	below 0.25

**Unofficial comments by George R. re 2013 vs 2012 results:**

**Ashmet:** Chlorophyll still Best. Some degradation in Phos. & Trans.  
Big increase in Phos. on bottom.  
**John's:** Chlor. & Phos. levels doubled. Trans. decreased

**Santuit:** Chlor., Phos. and Trans all still Bad.

**Masheepe:** Some degradation of Chlor. & Trans. Phos.- mixed bag

**Wakeby:** Degradation in Chlor. and Trans. Phos. Mixed bag

**Moody:** Chlor. Still Best. Increases in Phos. Increase in Trans.

TP(ug/L) = 30.974 x TP(uM)

ASHMET SNAPSHOT			Chlor.	Phaeo	Total Phosphorus	Total Nitrogen	Total Phosphorus	Secchi
Test Date	Depth (M)	pH	Alk (mg CaCO <sub>3</sub> /L)	ug/L	ug/L	ug/L	ug/L	(Meters)
Aug 29, '13	0.5	7.0	10.2	1.6	0.8	0.5	20.2	16.1
	3.0	7.0	9.9	1.3	0.6	0.5	19.2	15.2
	9.0	6.4	13.9	8.9	<0.05	0.5	17.6	16.4
	19.0	5.8	5.4	<0.05	29.6	4.6	85.2	141.6

John's SNAPSHOT			Chlor.	Phaeo	Total Phosphorus	Total Nitrogen	Total Phosphorus	Transparer
Test Date	Depth (M)	pH	Alk (mg CaCO <sub>3</sub> /L)	ug/L	ug/L	ug/L	ug/L	(Meters)
Aug 19 '13	0.5	7.2	10.3	2.8	0.6	0.8	19.2	24.5
	3.0	7.2	10.0	2.7	0.5	0.8	19.3	24.8
	9.0	6.4	12.0	4.2	1.7	0.6	27.5	18.9
	19.0	6.5	19.3	<0.05	29.1	0.7	52.4	20.8

Santuit (2) SNAPSHOT			Chlor.	Phaeo	Total Phosphorus	Total Nitrogen	Total Phosphorus	Transparer
Test Date	Depth (M)	pH	Alk (mg CaCO <sub>3</sub> /L)	ug/L	ug/L	ug/L	ug/L	(Meters)
Sept 19 '13	0.5	7.0	11.0	2.7	1.7	0.2	22.0	4.6
	3.0	7.0	10.8	2.8	1.1	1.0	19.8	30.4
	9.0	6.9	11.1	4.9	2.0	0.3	19.1	7.7
	25.3	6.7	29.2	0.2	4.4	11.7	100.9	362.1

Masheepe2 A SNAPSHOT			Chlor.	Phaeo	Total Phosphorus	Total Nitrogen	Total Phosphorus	Transparer
Test Date	Depth (M)	pH	Alk (mg CaCO <sub>3</sub> /L)	ug/L	ug/L	ug/L	ug/L	(Meters)
Sept 18 '13	0.5	7.0	11.0	2.7	1.7	0.2	22.0	4.6
	3.0	7.0	10.8	2.8	1.1	1.0	19.8	30.4
	9.0	6.9	11.1	4.9	2.0	0.3	19.1	7.7
	25.3	6.7	29.2	0.2	4.4	11.7	100.9	362.1

Wakeby 2 B SNAPSHOT			Chlor.	Phaeo	Total Phosphorus	Total Nitrogen	Total Phosphorus	Transparer
Test Date	Depth (M)	pH	Alk (mg CaCO <sub>3</sub> /L)	ug/L	ug/L	ug/L	ug/L	(Meters)
Sept 18 '13	0.5	7.1	12.0	8.3	2.6	0.7	25.2	22.9
	3.0	7.1	11.9	6.9	2.4	0.8	22.9	23.8
	9.0	6.8	12.0	5.8	2.7	0.7	23.3	22.9
	14.0	6.7	39.3	1.4	7.7	11.8	123.5	365.5

Moody 2 SNAPSHOT			Chlor.	Phaeo	Total Phosphorus	Total Nitrogen	Total Phosphorus	Transparer
Test Date	Depth (M)	pH	Alk (mg CaCO <sub>3</sub> /L)	ug/L	ug/L	ug/L	ug/L	(Meters)
Sept 19 '13	0.1	6.1	3.6	0.9	1.8	0.9	16.4	26.9
	3.0	6.2	3.7	0.7	0.8	0.8	14.7	23.5