

EAST & WEST DEEP-WATER STATIONS, GREEN LAKE, GREEN LAKE COUNTY, WI, USA.

Sky is sunny with no clouds and lake is dead-flat calm. Many of the floating weeds are in mats and some mats are looking brown as though plants are decaying. Wild celery floating in Dartford Bay along the shore often has bubbles around their masses and I do not know exactly what it means but possibly more decaying.

Many molted gull feathers floating on surface from the many gulls. West end had many small insects flying just over surface and dead ones forming a scum on the lake while East end had no insects evident at this time. Faint *Anabaena* scum (as so calm) and many plankton & blue-greens forming "Tapioca" appearance several inches below surface at both ends.

Three flocks of coots are on lake and a larger flock is in Dartford Bay.

Mimic shiners spotted at East end today.

**The filamentous algae are gone.** Perhaps the windy days have helped this happen. What has happened to them? From my slowly moving boat, the shallow water of the littoral zone is very clear on this calm day revealing sandy and stony areas among the aquatic plants. This clear view of the bottom has not been visible for weeks because of the thick filamentous algae covering the massive macrophytes during this season earlier.

Now Eurasian milfoil has mainly empty stems with a few leaves near their tops just below the surface.

Many small-sized shells of dead zebra mussels are visible lying on the bottom as well as live ones attached to hard surfaces and to some aquatic plants.

**NO PLANKTON TOW**

STATIONS	TIME	SECCHI (FT)	SURFACE TEMP (F)	CUSTER COLORS		LAKE OBSERVATIONS
				½ SECCHI & ½ M		
WEST	10:30	20.5 Ft	68 F	4.0	1.5	Murky & green
EAST	11:15	20.0 Ft.	69 F	4.0	2.0	Murky & green

AIR TEMP: 82 F West; 68 F East.

My perception of Green Lake today = **2.** "Swimming and aesthetic enjoyment slightly impaired"- (due to floating macrophytes which are also growing in littoral zone).

Filamentous algae is no longer so evident.

Mary Jane Bumby, Volunteer Monitor, Green Lake, WI

Report # 17, October 2, 2013

**HYDROLAB TO 25 M on morning of 10/02/2013. West end readings first.**

DEPTH M	TEMP		% DO		DO mg/l		SPC		mS/cm		TDS		PCY cells/ml		CHLa u/l		TURB/NTU	
	West	East	West	East	West	East	West	East	West	East	West	East	West	East	West	East	West	East
<u>1*</u>	18	18	<u>67</u>	<u>64</u>	5.8	5.8	<u>479.6</u>		30.6	30.8	<u>783</u>	<u>1052</u>	283	404	<u>0.6</u>	<u>0.5</u>		
<u>5</u>	18	18	<u>63</u>	<u>59</u>	5.7	5.4	<u>480.8</u>	<u>482</u>	30.7	30.9	<u>807</u>	<u>774</u>	316	302	<u>1.0</u>	<u>0.8</u>		
<u>7.5**</u>	18		<u>63</u>		5.8		<u>480.8</u>		30.7		<u>815</u>		328		<u>1.0</u>			
<u>10</u>	18	18	<u>63</u>	<u>58</u>	5.7	5.3	<u>480</u>	<u>484</u>	30.8	31.0	<u>935</u>	<u>1150</u>	376	446	<u>1.2</u>	<u>1.0</u>		
<u>15</u>	10	8.1	<u>38</u>	<u>38</u>	4.1	4.4	<u>498</u>	<u>501</u>	32.0	32.0	<u>924</u>	<u>633</u>	377	274	<u>0.6</u>	<u>1.3</u>		
<u>17.5</u>	7.8	7.2	<u>39</u>	<u>37</u>	4.6	4.3	<u>498</u>	<u>499</u>	31.8	32.0	<u>412</u>	<u>851</u>	355	316	<u>0.3</u>	<u>0.0</u>		
<u>20</u>	6.3	6.6	<u>41</u>	<u>38</u>	4.9	4.5	<u>494</u>	<u>498</u>	31.5	32.0	<u>657</u>	<u>553</u>	261	205	<u>0.1</u>	<u>0.0</u>		
<u>25</u>	5.4	5.7	<u>45</u>	<u>38</u>	5.5	4.6	<u>493</u>	<u>498</u>	31.6	31.9	<u>842</u>	<u>341</u>	264	120	<u>0.0</u>	<u>0.0</u>		

\* East end is really 2 M not 1 M.

\*\* DEPTH at 7.5 M only taken at West station.

pH: West range 7.9 - 7.2, East range 7.5 - 7.4

CHLa has had "0.0"- removed.