

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

At start today bright sun is hazy as high cirrus clouds and lake is dead-flat calm. Filamentous algae are mainly gone from littoral zone. Dartford Bay has abundant torn-out wild celery floating on surface along shore in several areas that many coots are enjoying. Many gulls in area often sitting on canopies over boat lifts, piers and besides releasing their excrement are still molting large number of feathers onto lake.

East surface water is very scummy and both East and West show many blue-greens and other plankton hovering several inches below lake surface - like "tapioca".

Some mornings the lake is steaming and/or foggy.

STATIONS	TIME	SECCHI (FT)	SURFACE TEMP (F)	CUSTER COLORS		LAKE OBSERVATIONS
				1/2 SECCHI & 1/2 M		
WEST	11:05	19.5 Ft	64 F	4.0	2.0	Murky & green
EAST	12:00	16.0 Ft.	64 F	4.0	2.5	Murky & green

AIR TEMP: 74 F West; 74 F East.

My perception of Green Lake today = 2. "Very minor aesthetic problems, great for swimming/boating"-

Microscopic observations of plankton samples collected at both East & West deep-water stations via 17 ft. Wisconsin Plankton Net vertical pulls. These organisms are estimated into four categories below:

	Very Abundant	Abundant	Infrequent	Present
Blue-greens:	<i>Anabaena</i> <i>Microcystis</i> <i>Nodularia</i>	<i>Coelosphaerium</i>	<i>Gloethece</i> <i>Gomphosphaeria</i> <i>Oscillatoria</i>	<i>Chroococcus</i> <i>Lyngbya</i>
Greens:		<i>Botryococcus</i>	<i>Characium?</i> <i>Coelastrum</i> <i>Gloeocystis?</i> <i>Sphaerocystis?</i>	Little Green Balls <i>Oocystis</i> <i>Tetraspora</i>
	(Present: Unknown, 10-15 mm & filamentous, unbranched)			
Dinoflag. & Protozoa:	<i>Ceratium</i> (some broken, & gr. contents released) <i>Vorticella</i>	<i>Golenkinia</i>	small ciliates & flagellates "ice cream cone"	
Diatoms:	<i>Fragilaria</i>		<i>Asterionella</i>	<i>Stenopterobia</i>
Desmids & "Golden":	<i>Dinobryon</i>	Unknown Strands	<i>Cosmarium</i>	<i>Staurastrum</i>
Zooplankton:			<i>Bosmina</i> <i>Cyclopoids</i>	<i>Daphnidia</i> <i>Nauplii</i>
Metazoans & Rotifers:		<i>K. cochlearis</i> <i>Polyarthra</i>	<i>Kellicotia</i>	<i>Asplanchna</i> (photo of large unknown)
Others:	Pieces of plants & animals! Terrestrial leaves floating and sinking	Many fibers	Debris Unknowns moving about (rotifers?)	Unidentified "Over-the-hill algae strands"

Mary Jane Bumby, Volunteer Monitor, Green Lake, WI

Report # 18, OCTOBER 10, 2013

HYDROLAB TO 25 M on morning of Thu, 10/10/2013. Started West 11:14 am; Started East 12:15 pm.

DEPTH M	TEMP C		DO %		DO mg/l		SPC		mS/cm		pH		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
1	17.3	17.4	61	67	5.7	6.1	483	484	7.8	6.9	1254	874	467	309	0.6	0.4		
5	17.1	17.1	60	62	5.6	5.8	483	484	7.8	7.3	1064	1380	491	684	0.6	1.1		
10	17.0	17.1	60	60	5.6	5.6	483	485	7.8	7.4	1268	1579	631	779	0.4	1.2		
15	10.2	9.8	35	37.5	3.7	4.1	501	500	6.8	7.4	596	629	212	284	0.2	0.7		
17.5	7.3	7.3	35	36	4.2	4.2	498	500	6.6	7.4	506	947	184	315	0.0	0.6		
20	6.5	6.3	41	37	4.8	4.4	496	499	6.8	7.4	261	599	98	183	0.0	0.1		
25	5.5	5.5	43	38	5.2	4.6	496	499	6.8	7.4	334	400	112	150	0.0	0.2		

Did not show Total Dissolved Solids (TDS): HIGHEST at 15 m: West is 32.10 mg/l & East is 32.04 mg/l.