

## 2007 Chlorophyll Data Summary - Greenwich Bay Sites

Algae play a vital role in all aquatic ecosystems - providing the food and energy base for all organisms living in lakes, ponds, and streams. However, unnatural or excessive growth of algae (nuisance algal blooms) may interfere with our enjoyment of aquatic resources and may even be harmful. Algal blooms can lead to reduced or even the absence of dissolved oxygen in the water, affecting the aquatic species in the water and changing the water chemistry. In rare cases some species can release toxins that can sicken or even kill animals and people who swallow them. Because of their importance to aquatic ecosystems and susceptibility to changes in the environment, algal measurements a key component in our slower water systems, particularly in lakes, ponds, tidal rivers and estuaries.

LOCATION	# DATES			SEASON	MEDIAN TROPHIC		
	SAMPLED	MIN	MAX	MEAN	MEDIAN	TSI	STATUS 1_1
<b>At 1M or depth for shallow sites</b>		<b>--(ug/l or ppb) at 1 meter--</b>					
GrBay #1 - Middle Ground Buoy	18	3.2	28.3	12.0	8.9	52	E
GrBay #2 - Sally Rock	18	4.0	27.6	12.5	11.2	54	E
GrBay #3 - The Brothers	6	7.5	31.6	16.1	14.9	57	E
GrBay #4 - Greenwich Bay Marina	20	2.8	31.2	14.8	14.1	57	E
GrBay #6 - Ponaug Marina	20	5.2	39.3	20.7	18.4	59	E
GrBay #8 - Little Rhody Boat Club	1	37.9	37.9	37.9	37.9	66	E
GrBay #9 - Warwick Cove Marina	19	3.3	25.8	11.3	10.6	54	E
GrBay #11 - Mouth Greenwich Cove	15	7.6	26.1	15.6	15.1	57	E
GrBay #12 - Harborside	15	7.1	24.7	16.6	16.5	58	E
GrBay #13 - EG Town Dock	14	9.9	23.9	17.7	17.5	59	E

1\_1 O = Oligotrophic, TSI<40 (> 2.6 ug/L); M = Mesotrophic, TSI 40-50 (2.6 - 7.2 ug/L);  
 E = Eutrophic, TSI >50-65 (7.3 - 35 ug/L); H = Hypereutrophic, TSI > 65 (> 35 ug/L).

