

2005 Parameter Data: Greenwich Bay Total Nitrogen

Nitrogen is an important nutrient for plant and algae growth, but excess concentrations can cause cultural eutrophication, particularly in estuarine or marine systems. In saltwater, nitrogen is typically the nutrient that limits plant and algae growth, known as the limiting nutrient. When eutrophication occurs, algal and plant growth is over stimulated, water clarity is decreased, deep waters become depleted of dissolved oxygen, and fish and shellfish death may result. Precipitation, agricultural, lawn and garden fertilizer, animal wastes, and human waste from sewage treatment plants or septic systems are sources of nitrogen. Measurements of total nitrogen include all forms of dissolved and particulate nitrogen, i.e., nitrate-nitrogen, ammonium-nitrogen, and also organic forms of nitrogen.

Watershed code	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			-- (ug/l or ppb) --						
NA	Greenwich Bay #1 - Middle Ground Buoy	1	-	-	460	610	560	520	538
NA	Greenwich Bay #1 - Middle Ground Buoy	DEEP	-	-	420	550	620	750	585
NA	Greenwich Bay #2 - Sally Rock	1	-	-	-	-	-	750	-
NA	Greenwich Bay #2 - Sally Rock	DEEP	-	-	-	-	-	780	-
NA	Greenwich Bay #3 - The Brothers	1	-	-	760	770	690	770	748
NA	Greenwich Bay #3 - The Brothers	DEEP	-	-	692	820	860	720	773
NA	Greenwich Bay #4 - Greenwich Bay Marina	0.5	-	-	840	930	820	960	888
NA	Greenwich Bay #4 - Greenwich Bay Marina	DEEP	-	-	-	900	830	680	803
NA	Greenwich Bay #6 - Ponaug Marina	0.5	-	-	670	-	-	-	-
NA	Greenwich Bay #6 - Ponaug Marina	DEEP	-	-	690	-	-	-	-
NA	Greenwich Bay #8 - Little Rhody Boat Club	0.5	-	-	850	640	1100	550	785
NA	Greenwich Bay #8 - Little Rhody Boat Club	DEEP	-	-	850	1390	1200	730	1043
NA	Greenwich Bay #9 - Warwick Cove Marina	0.5	-	-	700	600	740	740	695
NA	Greenwich Bay #9 - Warwick Cove Marina	DEEP	-	-	530	630	860	750	693
NA	Greenwich Bay #10 - Greenwich Bay North Marina	0.5	-	-	690	720	650	740	700
NA	Greenwich Bay #10 - Greenwich Bay North Marina	DEEP	-	-	690	690	780	840	750
NA	Greenwich Bay #13 - EG Town Dock	0.5	-	-	790	1230	820	780	905
NA	Greenwich Bay #13 - EG Town Dock	DEEP	-	-	730	1220	1020	1090	1015
NA	Greenwich Bay #14 - Wharf Marina	0.5	-	-	-	1010	590	620	740
NA	Greenwich Bay #14 - Wharf Marina	DEEP	-	-	-	970	720	570	753