

2007 Parameter Data: pH at Greenwich Bay Watershed Sites

The standard measurement of acidity is pH. A pH of less than 7 is acidic; above pH 7 is alkaline, also known by the term "basic." The pH measurement is a logarithmic measurement, which means that each unit decrease in pH equals a ten-fold increase in acidity. In other words, pH 5 water is ten times more acidic than pH 6 water. The normal pH range in Narragansett Bay is 7.0 to 8.5, but can change rapidly in response to rain events or during large phytoplankton blooms. Typical suburban streams have pH values from 6 to 8 pH units.

Watershed	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			----- Standard pH units -----						
Code	pH - Tributaries								
GB	Greenwich Bay - 01(Maskerchugg River)	0.2	6.9	6.4	7.1	6.3	6.4	6.6	6.6
GB	Greenwich Bay - 02 (Gorton Pond outflow)	0.2	-	7.4	6.7	6.6	7.2	7.0	7.0
GB	Greenwich Bay - 03 (Hardig @ Rte 115)	0.2	-	7.4	6.9	6.7	6.8	7.0	7.0
GB	Greenwich Bay - 04 (Mill Creek)	0.2	6.5	6.8	6.5	6.4	6.4	6.2	6.5
GB	Greenwich Bay - 05 (Hardig @ Health Ctr)	0.2	-	6.5	6.7	-	-	-	6.6
GB	Greenwich Bay - 06 (Tuscatucket Brk)	0.2	7.4	7.5	7.0	6.5	7.2	6.3	7.0
GB	Greenwich Bay - 07 (Southern Creek)	0.2	6.5	6.5	6.5	6.4	6.6	6.4	6.5

The normal pH range for suburban streams is between 6 and 8 pH units.

Watershed	LOCATION	Sample Depth (m)	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	MEAN
			----- Standard pH units -----						
Code	pH - Bay Sites								
NA	Greenwich Bay #1 - Middle Ground Buoy	1	8.4	8.0	7.8	7.8	7.9	7.9	7.9
NA	Greenwich Bay #1 - Middle Ground Buoy	DEEP	8.2	7.9	7.8	7.8	7.7	7.7	7.8
NA	Greenwich Bay #2 - Sally Rock	1	8.3	8.1	7.9	7.8	8.0	7.8	8.0
NA	Greenwich Bay #2 - Sally Rock	DEEP	8.1	7.9	7.8	7.7	7.9	7.9	7.9
NA	Greenwich Bay #3 - The Brothers	1	-	7.9	7.7	7.8	7.9	7.8	7.8
NA	Greenwich Bay #3 - The Brothers	DEEP	-	7.7	7.6	7.8	-	7.9	7.7
NA	Greenwich Bay #4 - Greenwich Bay Marina	0.5	8.3	7.7	7.8	7.4	7.5	7.6	7.7
NA	Greenwich Bay #4 - Greenwich Bay Marina	DEEP	8.3	7.8	7.7	7.4	7.5	7.6	7.7
NA	Greenwich Bay #6 - Ponaug Marina	0.5	7.9	7.9	7.5	7.3	7.4	7.3	7.6
NA	Greenwich Bay #8 - Little Rhody Boat Club	0.5	8.5	-	7.9	-	-	-	5.5
NA	Greenwich Bay #9 - Warwick Cove Marina	0.5	8.2	7.8	7.6	7.6	7.9	7.7	7.8
NA	Greenwich Bay #11 - Mouth of Greenwich Cove	0.5	8.3	7.9	7.7	7.7	7.9	7.7	7.9
NA	Greenwich Bay #11 - Mouth of Greenwich Cove	DEEP	8.1	7.8	7.5	7.7	7.8	7.8	7.8
NA	Greenwich Bay #12 - Harborside	0.5	8.3	7.8	7.6	7.6	7.7	7.7	7.8
NA	Greenwich Bay #13 - EG Town Dock	0.5	-	7.9	7.6	7.6	7.7	7.6	7.7

The normal pH range for Narragansett Bay is between 7 and 8.5 pH units.