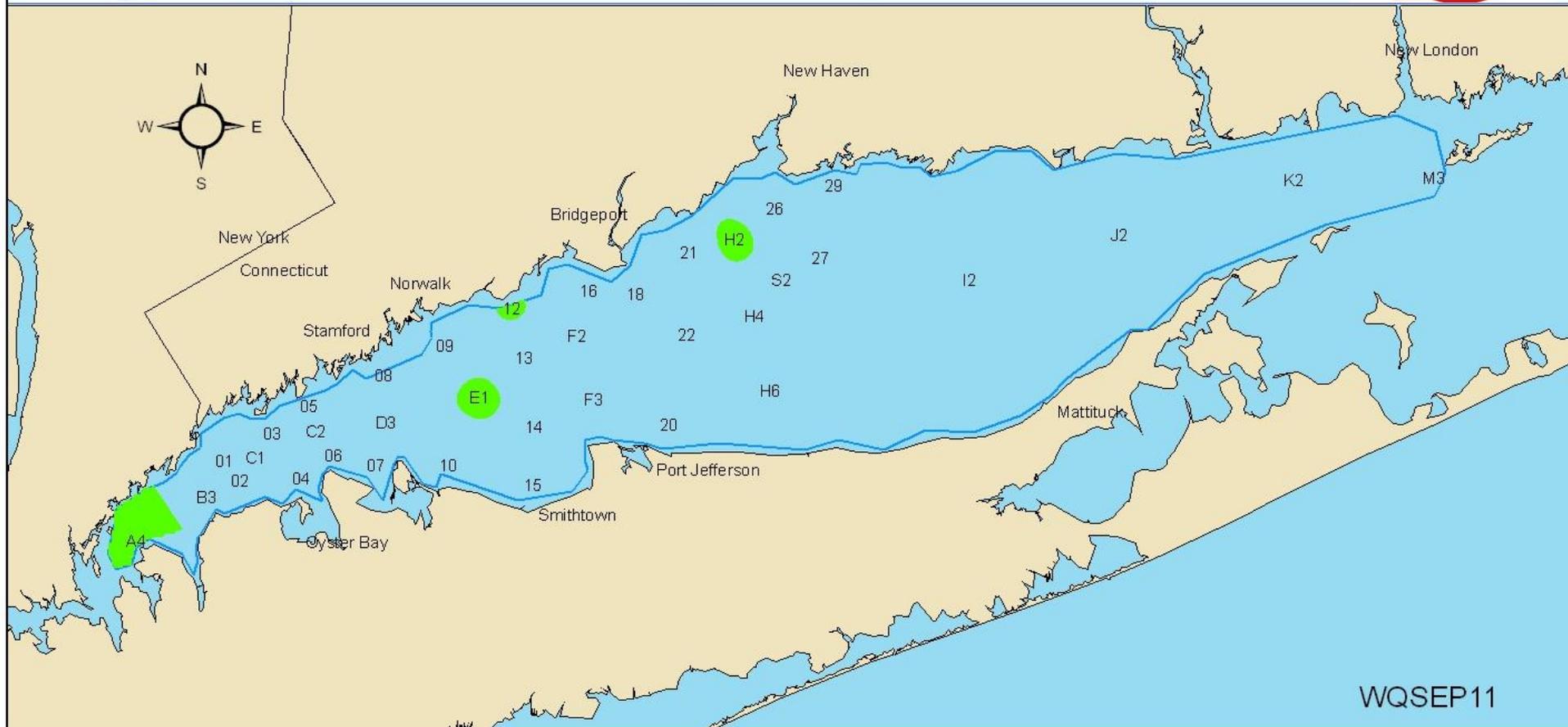




Dissolved Oxygen in Long Island Sound Bottom Waters

30 August - 1 September 2011



WQSEP11

The **2011 September Water Quality Survey** was conducted 29 August- 1 September. Thirty-seven stations were sampled using the R/V John Dempsey. Bottom water dissolved oxygen concentrations were below 4.8 mg/L at only 4 stations. This survey is better than the 2010 survey, when nine stations exhibited concentrations less than 4.8 mg/L, and the 2009 survey, when ten stations were less than 3.0 mg/L. The lowest concentration was observed at Station A4 (4.32 mg/L). The area of bottom water affected by hypoxia (DO <3.0mg/L) was 0 square miles compared to 128.2 square miles (332.1 sq. km) in 2009. The 13-year average area is 46.8 sq mi (121.3 sq km).

Dissolved Oxygen	Severity of impact
0.0 - 0.99	Severe
1.0 - 1.99	Moderately severe
2.0 - 2.99	Moderate
3.0 - 3.49	Marginal
3.5 - 4.79	Interim management goal
4.8+	Excellent - Supportive of marine life