

NORTH SHORE EMBAYMENTS WATERSHED MANAGEMENT PLAN SUFFOLK COUNTY

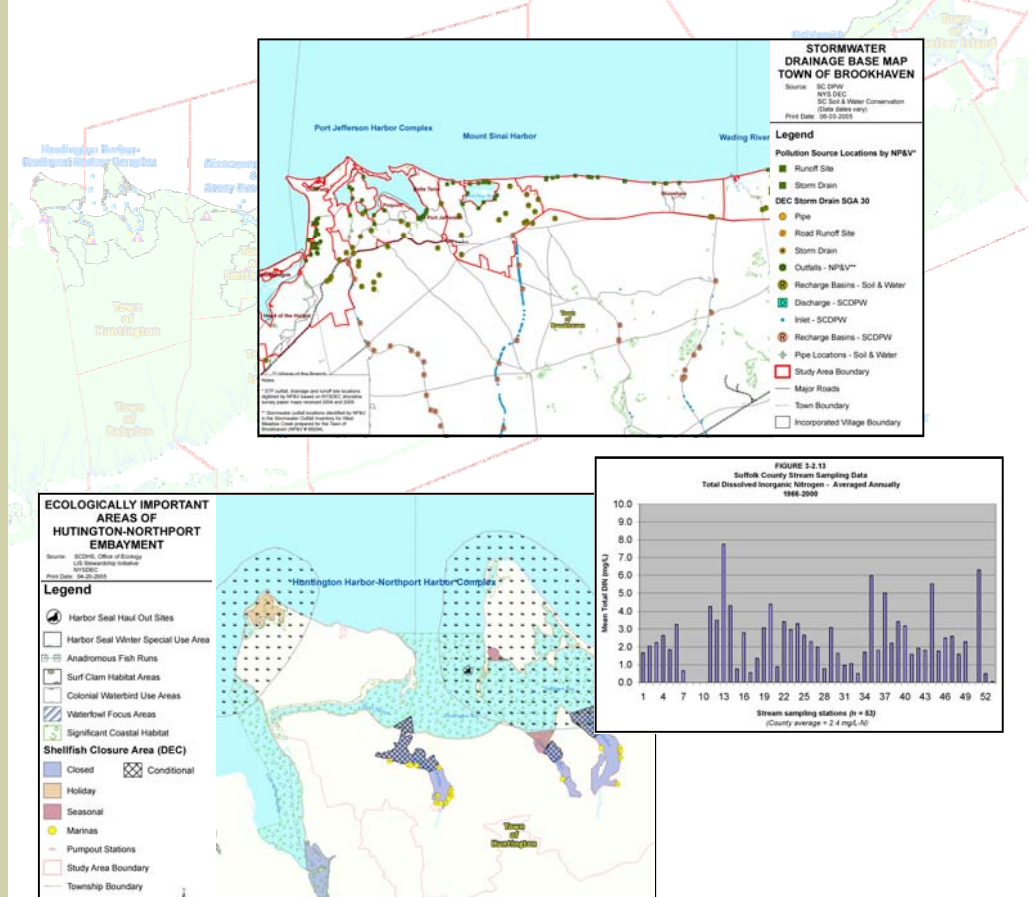
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Completed an intensive watershed study for the north shore of Suffolk County to estimate existing pollution loads and develop a plan that would allow Suffolk County to reduce 58.5 % of its nitrogen load to Long Island Sound by 2014. **Nelson, Pope & Voorhis (NP&V)** used GIS technology to collectively look at decades of surface and ground water quality data, consider sensitive natural resource areas, land use and soils, storm drainage systems, sewer vs. non-sewered areas, population growth, and ultimately determine point and nonpoint source pollution loads from priority subwatersheds. **NP&V** developed a tax parcel-based spatial model to estimate past, current and future nitrogen loads from individual pollution sources (i.e. sewage treatment plants, septic systems, lawn fertilizers, agricultural fertilizers, road runoff etc.) and determine the sources of nitrogen that could most effectively and economically be managed.

