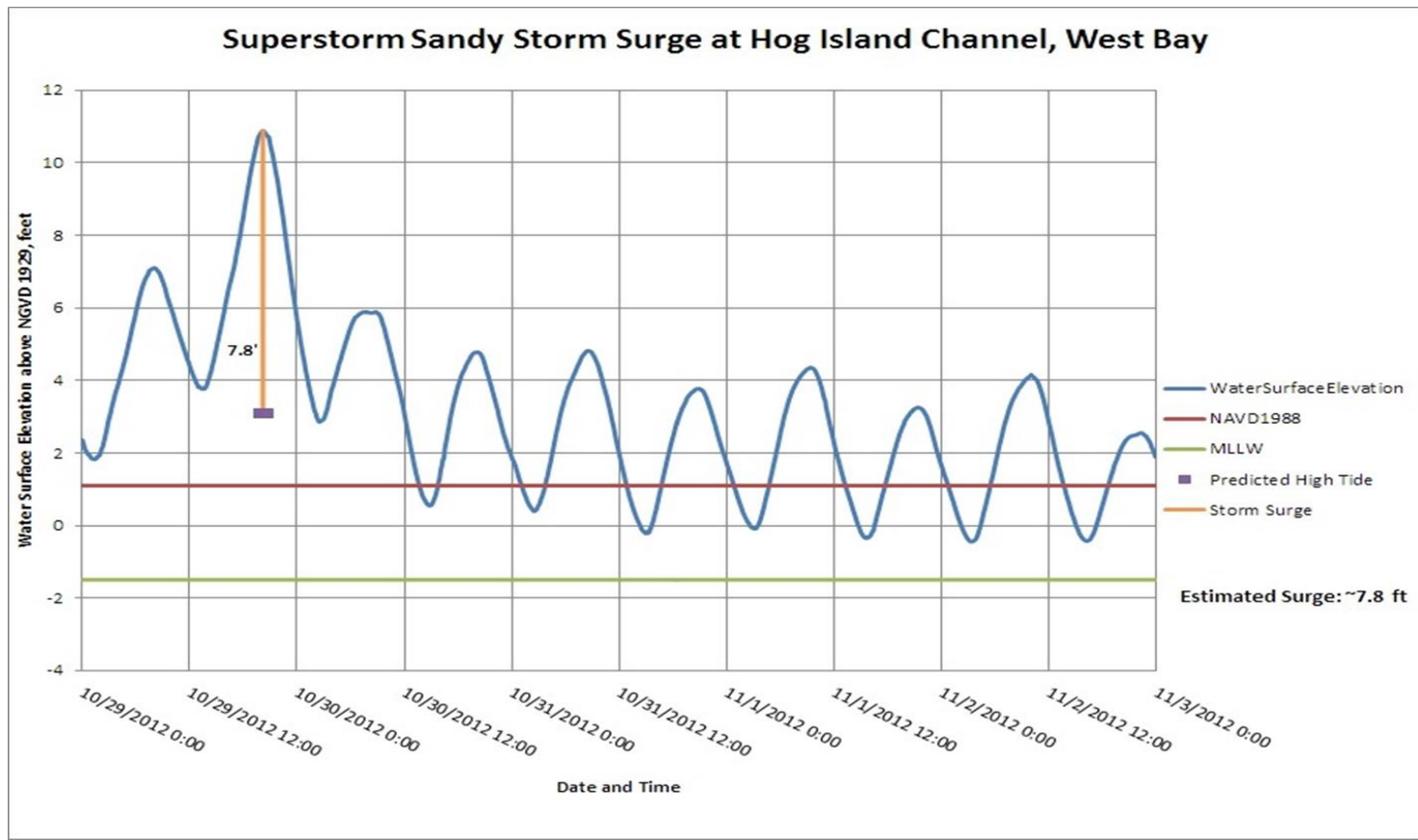


Work Unit 2.3 Flooding Impacts on Wastewater Infrastructure

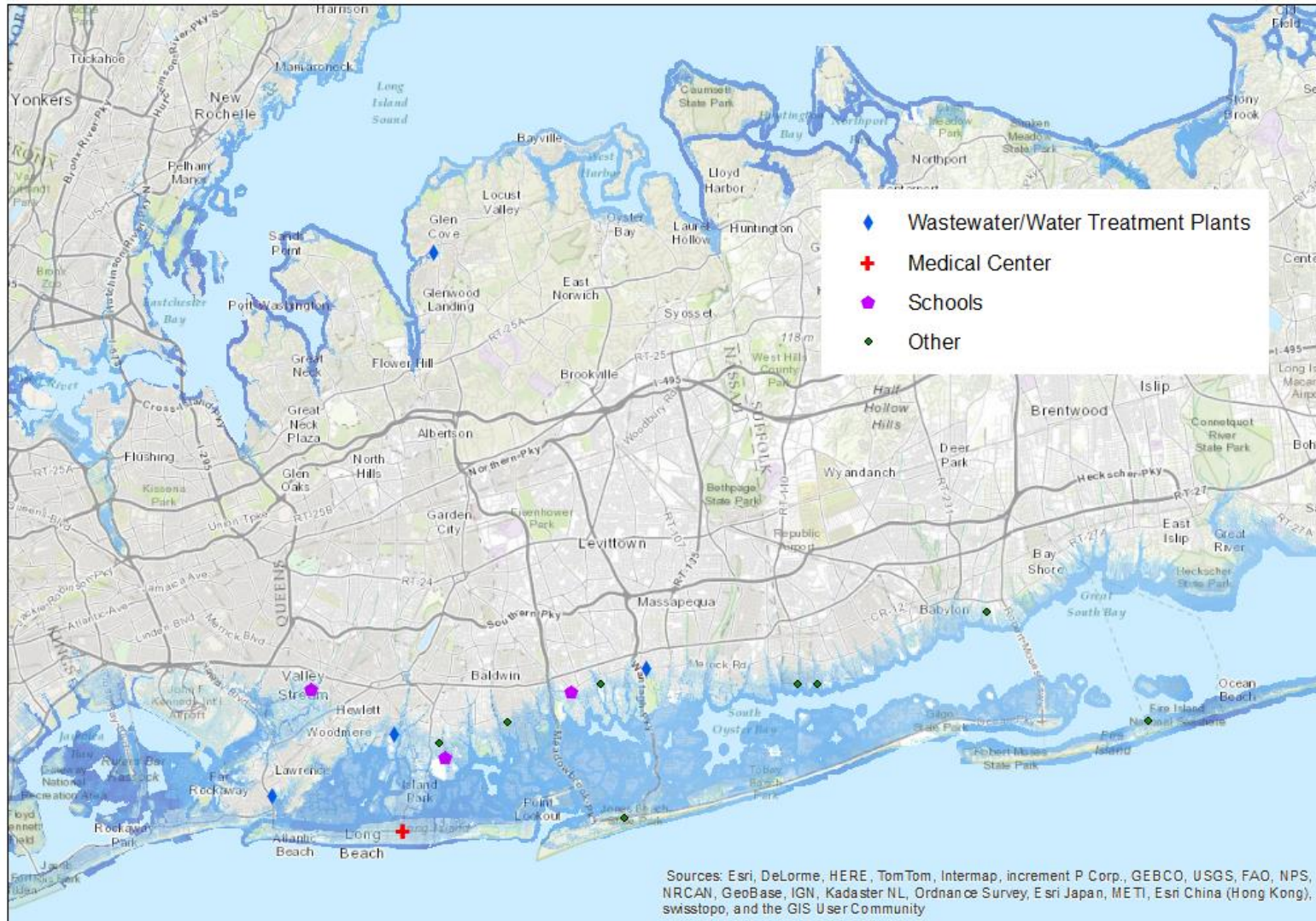
Wilson, Brownawell, Swanson

- Examine causes of damage and vulnerability in wastewater facilities
- Assess performance of the Bay Park STP



Critical Facilities in Nassau and Suffolk Counties

Spill Source: Institutional/Educational



Suffolk County STPs and FEMA SLOSH Zones

Legend

- ▲ Suffolk County Sewage Treatment Plants
- ▲ Private Sewage Treatment Plants

Municipal Sewage Treatment Plants

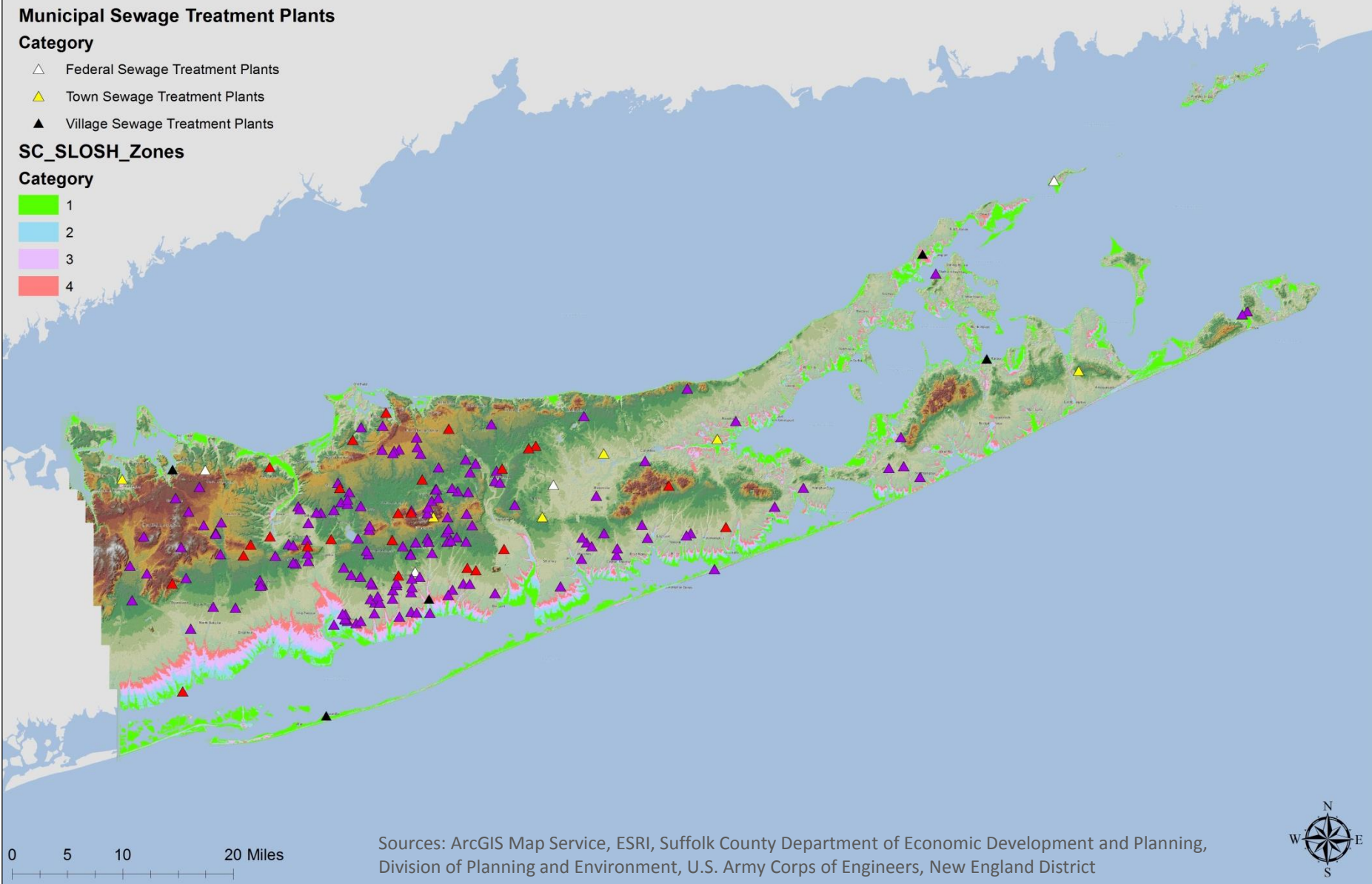
Category

- △ Federal Sewage Treatment Plants
- ▲ Town Sewage Treatment Plants
- ▲ Village Sewage Treatment Plants

SC_SLOSH_Zones

Category

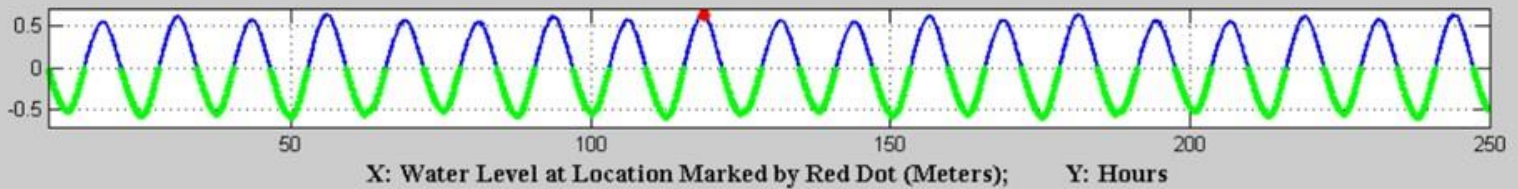
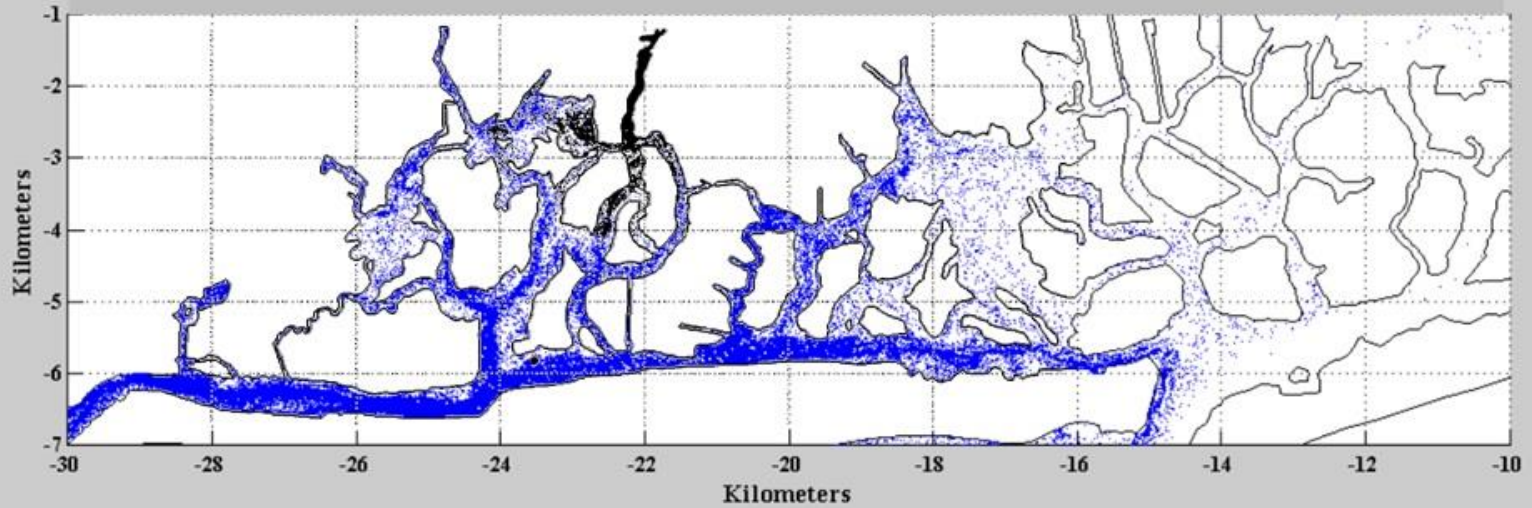
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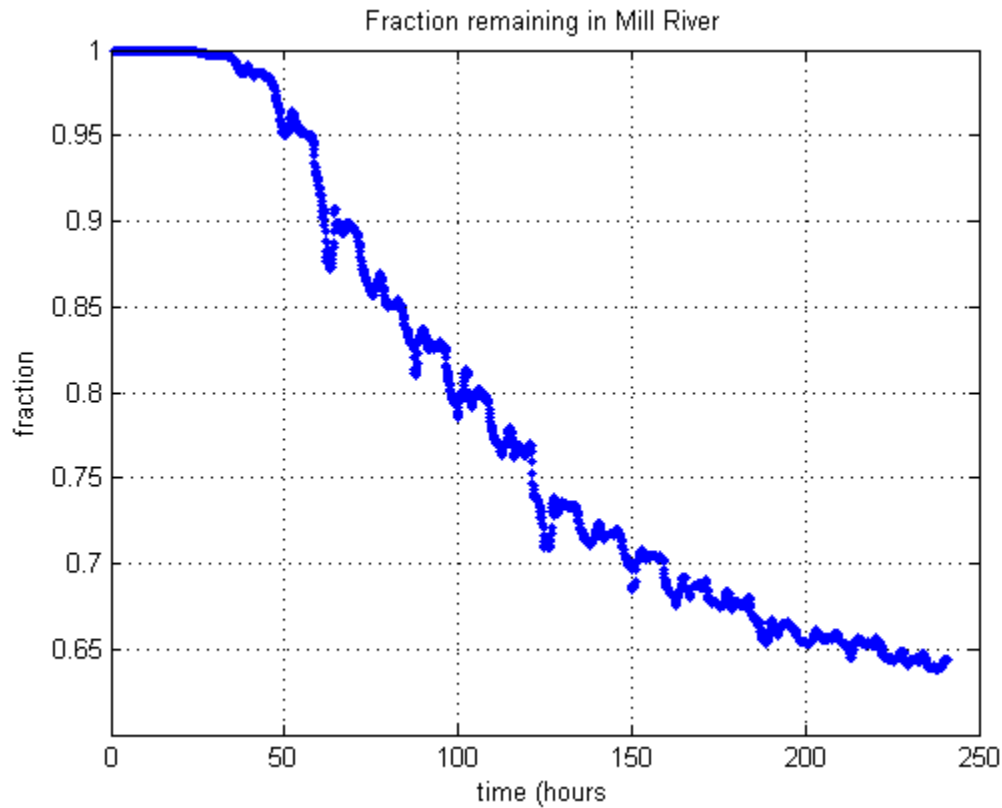
Sources: ArcGIS Map Service, ESRI, Suffolk County Department of Economic Development and Planning, Division of Planning and Environment, U.S. Army Corps of Engineers, New England District



Mixing Pattern after Approximately 5 Days



Fraction of Particles Remaining in Mill River after the Initiation of an Instantaneous Release



Work Unit 2.3 Deliverables

- Report on damages to wastewater treatment systems in Nassau, Suffolk, and Westchester Counties
- Maps from modelling the dilution patterns of sewage discharges into Mill River and Reynolds Channel
- Maps of sewage tracers (QACs) in sediments in West Bay and Middle Bay
- Report on environmental impacts from Bay Park STP