Long Island Nitrogen Action Plan
Project Scoping Meeting

LONG ISLAND REGIONAL PLANNING COUNCIL

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Long Island Nitrogen Action Plan Scoping

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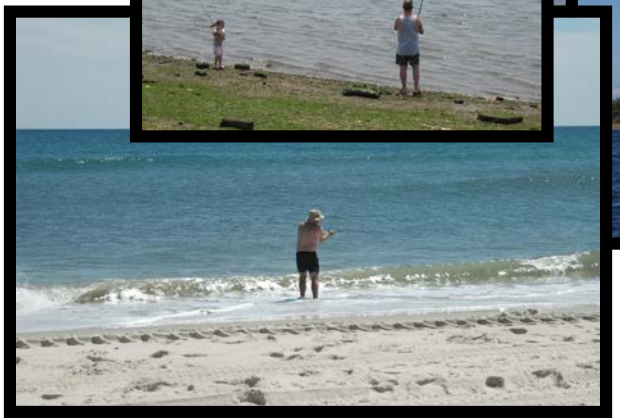
Locally driven plan. This is your plan. NYSDEC is a partner.

Long Island Population and Water Resources

- Nassau county population 1.4 million
- Suffolk county population 1.5 million
- Water resources
  - Sole source aquifer
  - Beaches
  - Finfishing
  - Boating
  - Shellfishing



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- 2001 LIS TMDL
- 2007 Peconic N TMDL
- 2010 Western Bays impairment listing
- 2012 Great South bay impairment listing
- Nitrogen is public enemy number 1
    - SC CWRMP
    - NC Bay Park N removal
- 2014 public outreach and report
- 2015 LINAP (focusing on unsewered areas of Nassau & Suffolk)

Growing Focus

LINAP Planning Structure

- Executive Council (Executive at DEC, LIRPC, Suffolk, Nassau)
- Project Management Team (Staff of DEC LIRPC, Suffolk, Nassau)
- LINAP Working Group
  - Towns and village groups
  - Estuary programs and protection committees
  - Environmental groups, civic, and trade groups
  - Academic, planning and engineering
  - Federal, state and authorities
  - NY Rising

LINAP Scoping Concepts

- Scope
  - Early and full-term action items
  - Not duplicating efforts – e.g., SC CWRMP, SBU CCWT, SCUPE, town plans, protection committees, estuary programs…
- Support from today's leaders means opportunity is now
- Nitrogen reduction goals critical for local implementation
- County wide wastewater management

LINAP Focus and Schedule

- Focus on early action LINAP (12 to 18 months)
- Full term LINAP (36 to 48 months)
- LINAP broken into LISS (including Nassau), Peconic, Western SSER, Middle/Eastern SSER, and Other Waters
- Moving forward on some actions; resolving roles and responsibilities on other actions

LINAP Focus and Schedule

- Initial focus on early action LINAP (12 to 18 months) to include:
  - First order watersheds analyses (reduction targets for local implementation)
  - No regrets actions
- Full term LINAP (36 to 48 months) to include
  - More rigorous watershed analyses
  - More detailed hydrodynamic modeling
  - Cost analysis for implementation
  - Long term recommendations

Early Action LINAP - First Order Analysis

- Sub-watershed delineation
- Loading estimates, simple hydrodynamics
- Tiered priority areas (e.g., black, red, yellow, green)
- First order load reduction targets for surface waters
- First order load reduction targets for public water supplies

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No Regrets. Bias Toward Action

Potential nitrogen reduction actions

- Sewering dense areas, adjacent to impacted waterbodies and public water supply wells
- 30 to 90 home clusters
- Advanced individual onsite wastewater systems
- Targeted in situ actions – e.g. permeable reactive barriers, hydro-modification, bioharvesting, etc

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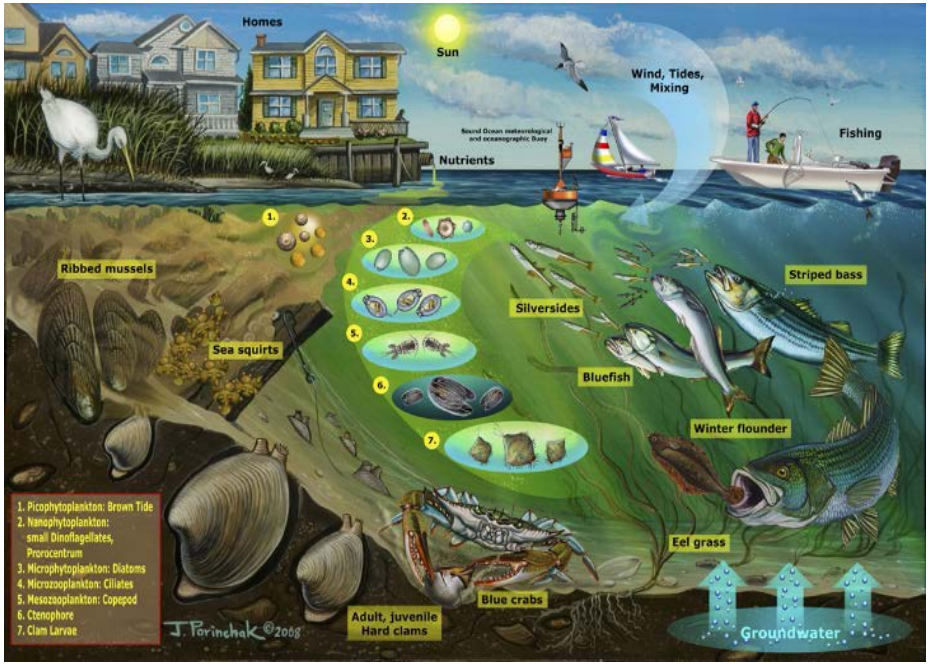
No Regrets. Bias Toward Action

Other suggested actions

- County wide wastewater management district analysis
- Fertilizer reduction recommendations
- Existing WWTP capacity/performance analysis
- Wastewater reuse regulations
- Nitrogen Smart Communities
- Ag BMP study
- FIMP assessment
- SAV mapping

Full Term LINAP – Rigorous Analysis

- Uses information from early LINAP – e.g. priority areas, loading, etc
- Linked watershed water quality model
  - Water quality endpoints
  - Ecological endpoints
- Complex hydrodynamic model
- Cost analysis for implementation



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Ongoing Efforts……

- Draft LINAP scope
- Suffolk County sub-watershed planning
- SOMAS - nitrogen loads, reduction targets, priorities
- USGS - groundwater modeling
- SBU CCWT - innovative onsite treatment systems
- SCUPE – piloting county wide onsite system management
- Every other week project management team meetings
- Meetings with NGOs

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Anticipated Next Steps

- Finalize scope
- Expand project management team support
- Resolve roles and responsibilities for completing tasks, e.g.,
  - County wide wastewater management districts
  - Wastewater capacity analysis
  - Stakeholder outreach
- Harmonize LINAP with EPA LIS Nitrogen Strategy
- Establishment of ad hoc workgroups from LINAP Working Group, e.g.,
  - modeling workgroup
  - endpoint workgroup
- Latitude 41 meeting in May

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We Want to Hear from You!

Comments, questions?

Please send written comments or questions to:

liwaterquality@dec.ny.gov

by February 19th.

Thank You

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