



Department of
Environmental
Conservation

Integrated Planning & Nutrients

ACWA Nutrient Permitting Workshop
Boise, ID

December 6, 2017

NY Individual SPDES

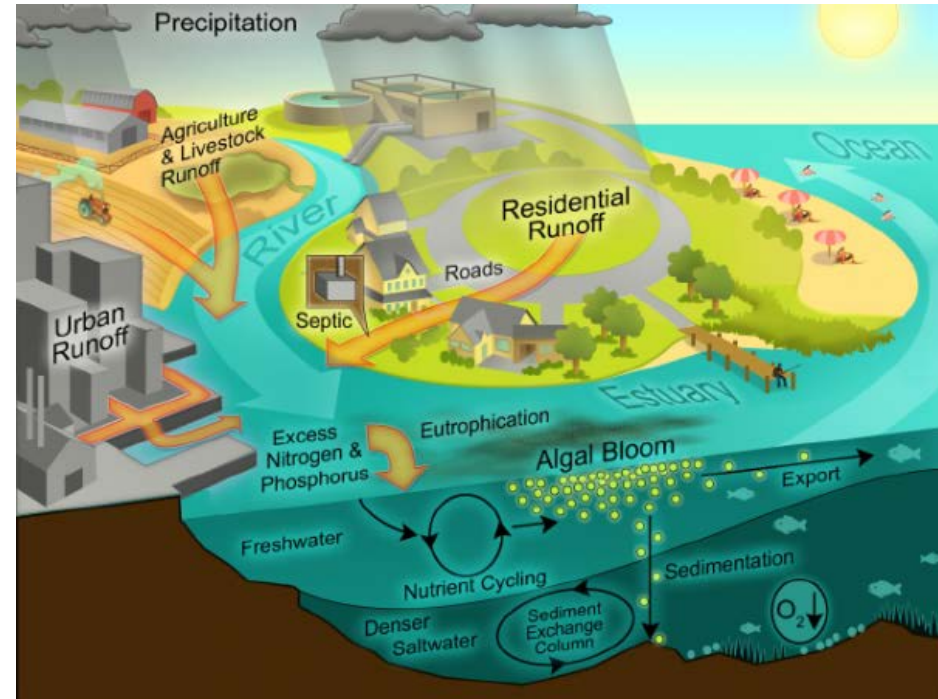
- Delegated in 1973
- 4,553 Individual Permits
- +15,000 GP's
 - MSGP
 - MS4
 - Construction Stormwater
 - CAFO



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Agenda

- What is Integrated Planning
- Integrated Nutrient Planning
- NYS Conceptual Adaptations
 - Onondaga County
 - New York City
 - Erie County



Source: World Resources Institute

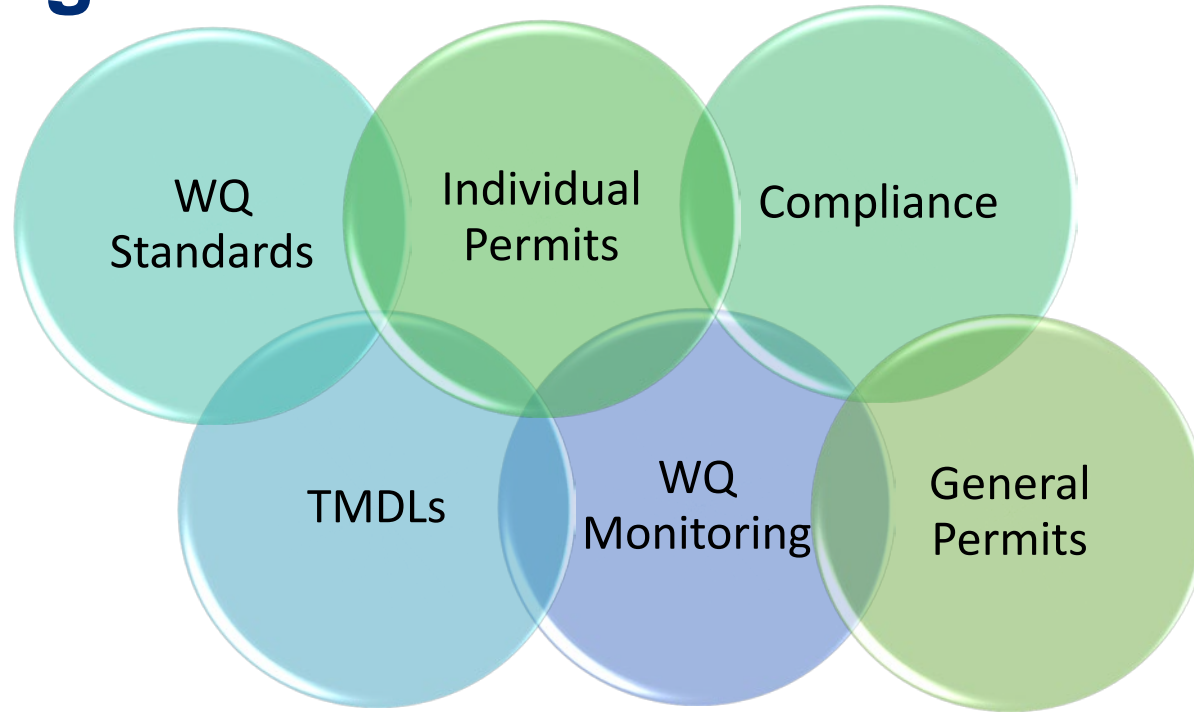


Clean Water Act Goals

- Discharge of Pollutants to navigable waters eliminated by 1985
- Achieve WQ – Fishable, Swimmable
- Restore & Maintain Chem/Phys/Bio Integrity



CWA Programs



Integrated Planning Theory

- Extensive CWA Program Overlap
- CWA Program Priority Competition
- Municipality Financial Capabilities
- Regulatory Priorities



Integrated Planning Goals

- Achieve Human Health & WQ Objectives of CWA
- Identify efficiencies in WW & SW program implementation
- Prioritize Capital investment
- Identify critical path
- Facilitate use of sustainable & comprehensive solutions



EPA Guidance Documents

EPA Memo: October 27, 2011

*“Achieving Water Quality
through Municipal Stormwater
and Wastewater Plans”*

EPA Memo: June 5, 2012

*“Integrated Municipal
Stormwater and Wastewater
Planning Approach Framework”*



NEW YORK
STATE OF
OPPORTUNITY

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Integrated Plan Framework Elements

1. Identify WQ Issues to Address
2. Identify Existing WW & SW Infrastructure
3. Engage/Communicate with Stakeholders
4. Develop an Alternatives Analysis
5. Performance Evaluation
6. Propose Plan Improvements



Integrated Nutrient Planning

Common Approaches



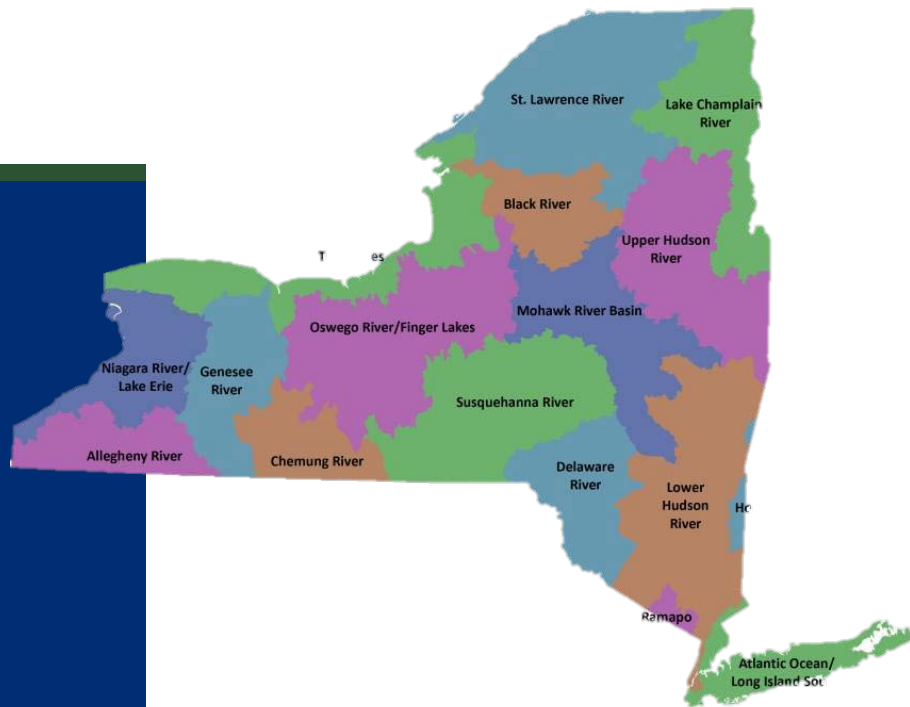
Watershed Focus & WQ Trading

- SW Improvement Projects (GI)
- Municipal Non-point source pollution prevention
- Stakeholder WQ trading for Nutrients (Cheaseapeake Bay TN/TP)



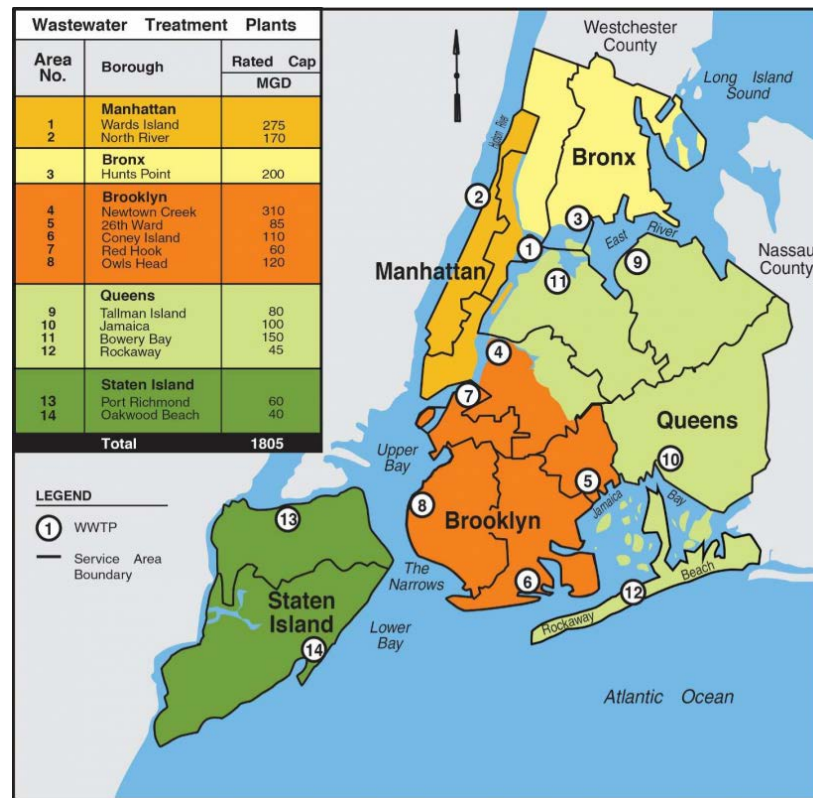
NYS Conceptual Adaptations

State & Municipality Cooperation



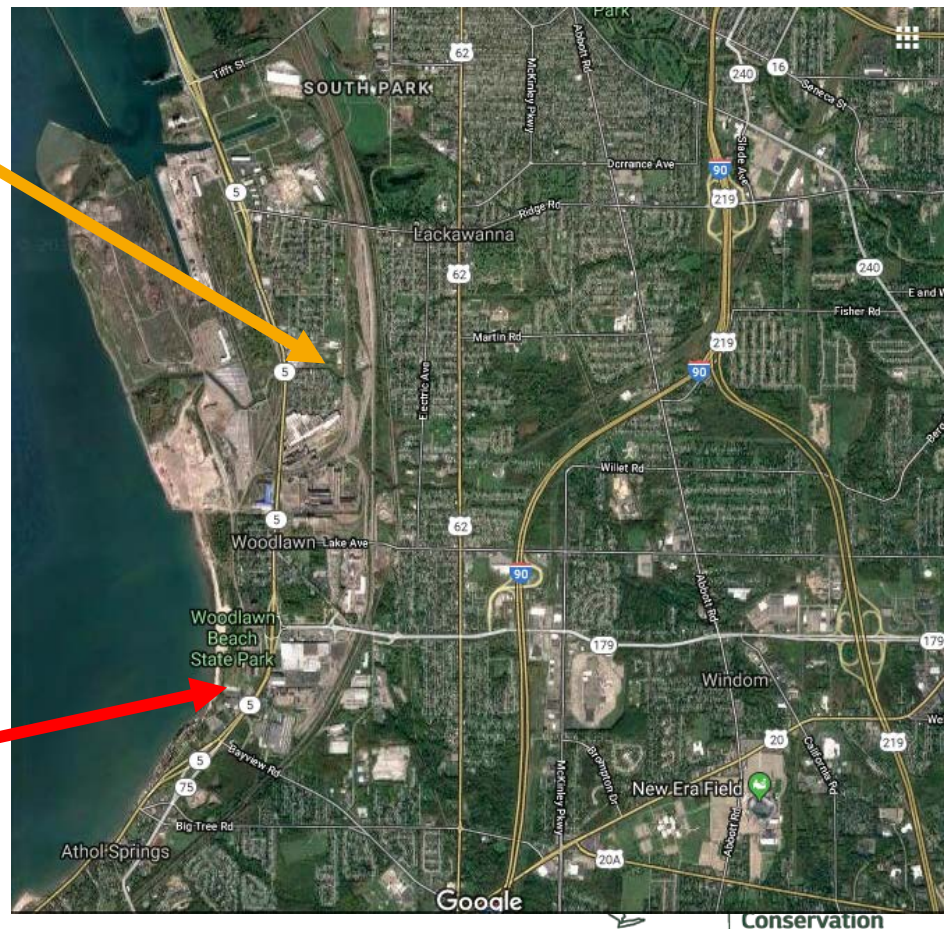
New York City

- 14 WWTP's; 420 CSO's
- Consent Order(s)
- WWTPs & Open Water LTCPs
- BNR Treatment
- Disinfection Upgrade (TRC)



Erie County, NY

- 16 MGD & 4.5 MGD WWTPs
- ORFs – 7 MGD & 5 MGD
- Facilities Plan Updates
- No Feasible Alternative (NFA) Analysis



Onondaga County, NY

- 1989 Consent Order
- Metro WWTP Upgrades
- “Save The Rain”
- CSO Storage Facilities



Thank You

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