

# NYS PROGRAMS TO COMBAT NON-POINT SOURCE POLLUTION

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# What is Non-Point Source (NPS) Pollution?

## A CHALLENGING POINT SOURCE!

The term "nonpoint source" is defined to mean any source of water pollution that does not meet the legal definition of "point source" in section 502(14) of the Clean Water Act.

The term "point source" means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. This term does not include agricultural storm water discharges and return flows from irrigated agriculture.



# NPS Pollution

Nonpoint source pollution generally results from land runoff, precipitation, atmospheric deposition, drainage, seepage or hydrologic modification. Nonpoint source (NPS) pollution, unlike pollution from industrial and sewage treatment plants, comes from many diffuse sources. NPS pollution is caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into lakes, rivers, wetlands, coastal waters and ground waters



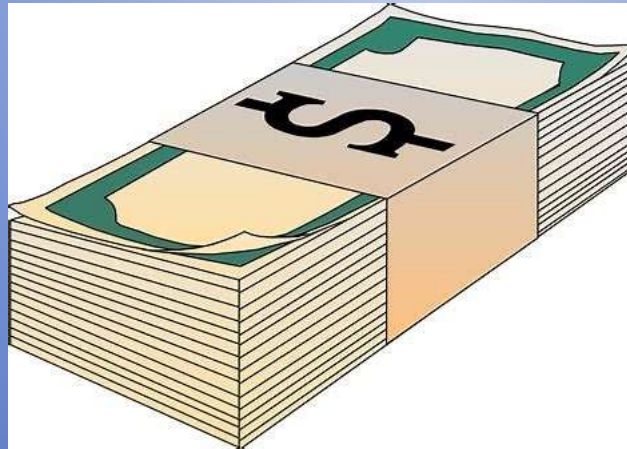
# NPS Pollution



Photo Credit: Bill Hecht

# How do we address NPS Pollution?

*“Don't tell me what you value, show me your budget,  
and I'll tell you what you value.” -Joe Biden*



# Environmental Protection Fund

- \$300 Million allocated for the EPF in FY18-19 NYS Budget
- Second year in a row that the EPF has been fully funded
- Many of the programs in NYS used to address NPS pollution originate funds out of the EPF

# EPF Programs

- Agricultural NPS Pollution Control (\$17 Million)
- Water Quality Improvement Program (\$20.25 Million)
- Finger Lakes/Lake Ontario Watershed Protection Alliance FLOWPA (\$2.3 Million)
- Soil and Water Conservation Districts (\$10 Million)
- Waterfront Revitalization (\$14 Million)
- Solid Waste Program (\$38.174 Million)
- Climate Change Mitigation and Adaptation Program (\$19.15 Million)



# Agricultural NPS Pollution Control Program





# Agricultural Environmental Management

## 5 Tiers

- *Tier 1* - Inventory Questionnaire
- *Tier 2* - Assessment Worksheets
- *Tier 3* - Planning
- *Tier 4* - Implementation
- *Tier 5* - Evaluation



# AG NPS Pollution Control Program - Waste Storage Systems



# AG NPS Pollution Control Program - Crop Systems

- ▣ Cover Crops
- ▣ No-Till
- ▣ Zone Till
- ▣ Contour plowing
- ▣ Interseeding
- ▣ Soil Health!





# AG NPS Pollution Control Program - Barnyard Systems

- ▣ Silage Leachate Control
- ▣ Barnyard runoff Control
- ▣ Milkhouse Waste Collection & Treatment
- ▣ Fertilizer Storage



# WQIP Program





# WQIP - Stormwater Runoff Control



Stormwater Coalition of Tompkins County

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# WQIP - Construction Site Runoff Control





# WQIP - Green Infrastructure

- ▣ Rain Gardens
- ▣ Bioswales
- ▣ Green roofs
- ▣ Tree planters
- ▣ Permeable pavers



# FLLOWPA Program

- ▣ \$88,360 in Tompkins County FLOWPA Contract for FY17-18 Budget year.
- ▣ Supports:
  - Non-Ag NPS Pollution Control Project
  - Ag NPS Pollution Control Project
  - Erosion Control Project (Compost Sock Program)
  - USGS Gauging Station Support (Sixmile Creek)
  - CSI Monitoring Support (Streams and Lake Monitoring)



# EPF - Climate Change Mitigation and Adaptation Program

- ▣ Climate Resilient Farming Program
  - 3 tracks
    - ▣ Waste Management
    - ▣ Soil Health
    - ▣ Water Management

# Permitting/Regulatory Programs

## ▣ NYSDEC

- SPDES (State Pollution Discharge Elimination System)
  - ▣ CAFO
  - ▣ Stormwater runoff from construction sites
  - ▣ Nutrient Runoff Law
  - ▣ Pesticide permitting program

## ▣ NYSDOH

- Septic installations
- Well installations



# Federal Programs

- ▣ NRCS/Farm Services Agency (Ithaca, Cortland, Watkins Glen, Auburn, Owego)
  - EQIP (Environmental Quality Incentive Program)
  - CREP (Conservation Reserve Enhancement Program)
  - CSP (Conservation Stewardship Program)
  - ....
- ▣ Army Corps of Engineers (Buffalo and Auburn)
  - Permitting and funding program
- ▣ Fish and Wildlife
  - Partners for Fish and Wildlife (Cortland)
- ▣ EPA

Who is in the best position to address NPS Pollution?





# Questions?

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