

What is the NJDEP Doing Raritan Water Region

- Focus of Comprehensive Assessment 2016 IR
- Raritan River Nutrient TMDL
- 6 319(h) Watershed Based Plans
- > 20 319(h) NPS Funded Projects
- Watershed Ambassadors (WMAs 7,8,9,10)

South Branch Raritan River



Mainstem Raritan River



A water quality fix determined by TMDL

Photos - Kleinfelder/Omni

Upper Millstone River



Bedens Brook

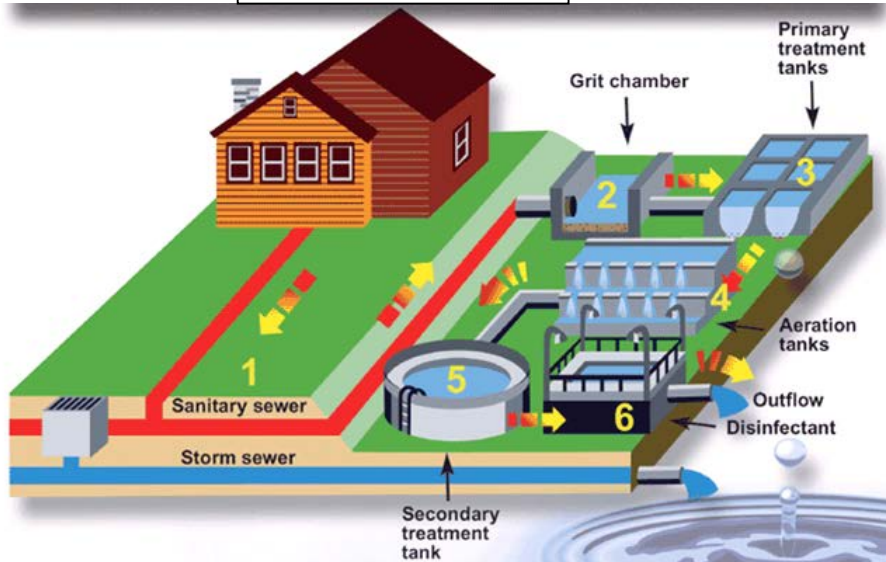


What is a TMDL?

A Total Maximum Daily Load figures out the amount of pollutants a waterbody can handle.

Modeling can appropriately determine sources.

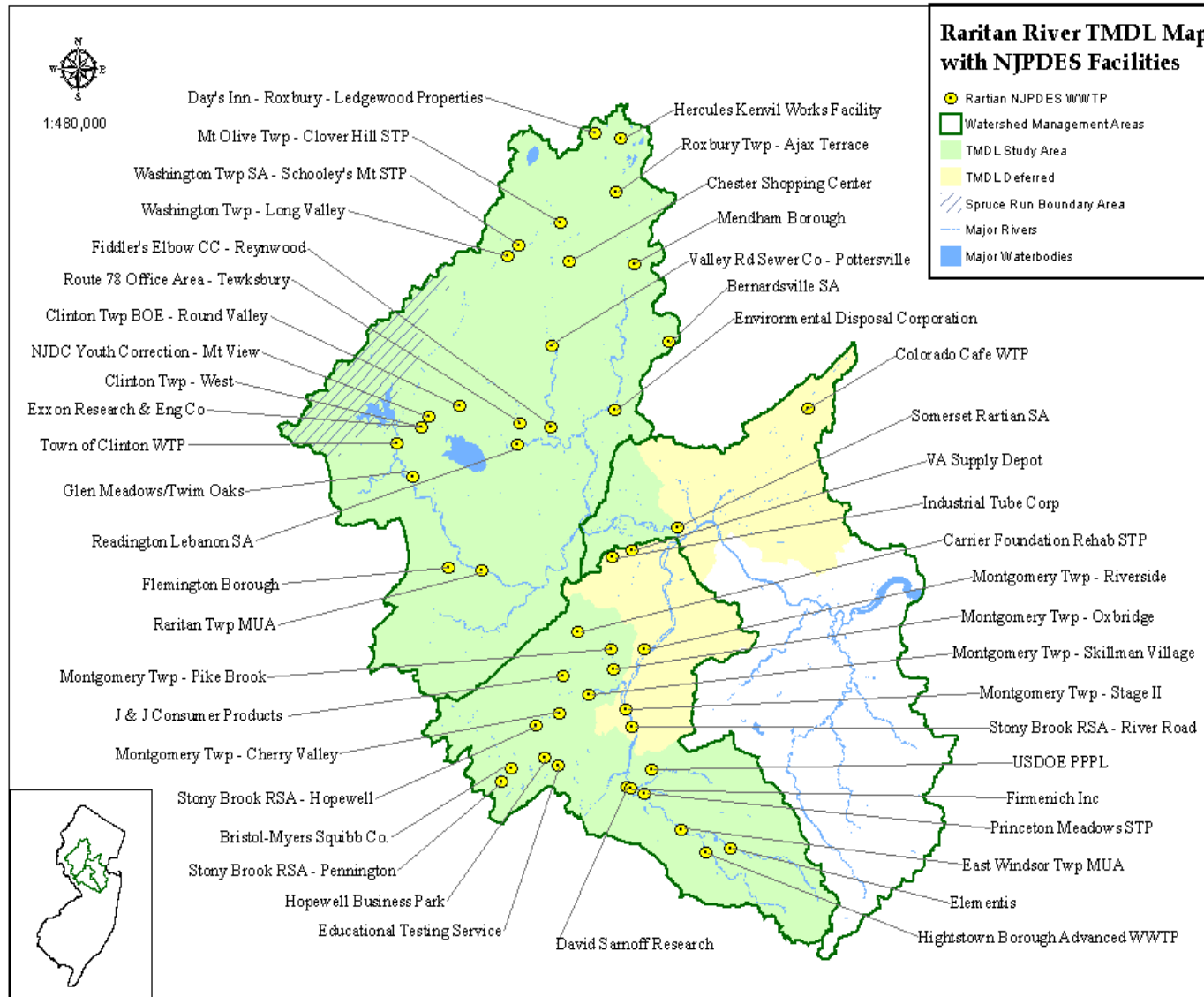
Point Sources



Non Point Sources

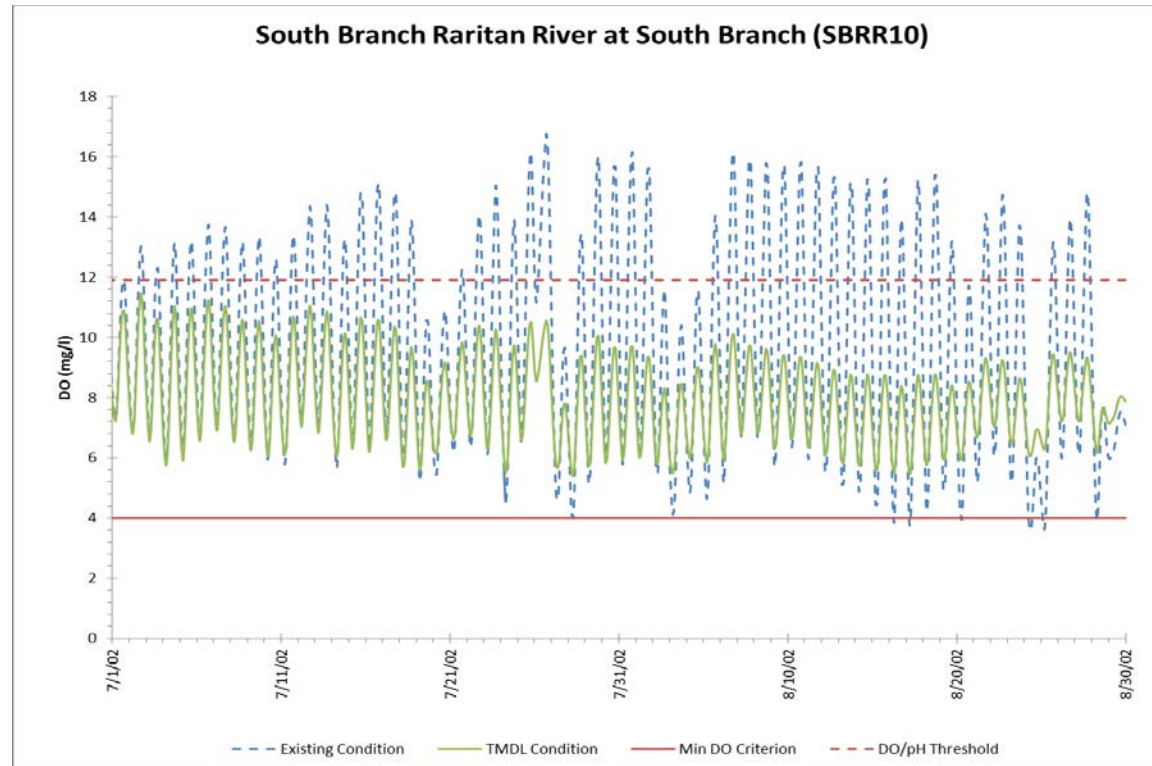


A TMDL is a Smart Approach Here



- It is a complex watershed. WWTP and land use loads vary in importance under various flow conditions.
- 45 current NJPDES Waste Water Treatment Plants (WWTPs)
- 38 WWTPs covered have TP limits per the TMDL outcome

The Raritan River TMDL will resolve existing DO, pH, TP and TSS impairments by defining TP and TSS load reductions.



Example of
TMDL
Outcome

- ✓ Nonpoint sources reductions assigned between 60-80%
- ✓ Margin of Safety assigned at 10-20%
- ✓ Reserve Capacity included for future growth
- ✓ WWTP loads important at low flow

TMDL Implementation Plan

- WWTPs loads will be assigned through individual NJPDES permits.
- Regulated Stormwater and Nonpoint sources are important to reduce!
- A suite of measures will be needed to achieve NPS reductions including:
 - MS4 measures, fertilizer law, existing stewardship programs (ex: River Friendly) and targeted future funding (ex: 319(h) grants, Farm Bill funding, SRF loans)

AmeriCorps Watershed Ambassadors

- WMA 7 Union County Dept. of Parks & Recreation
- WMA 8 Raritan Headwaters Association
- WMA 9 NJ Water Supply Authority/Duke Farms
- WMA 10 Stony Brook Millstone Watershed Association

Serve as the “boots on the ground” for community engagement to help reduce NPS pollution

Watershed Based Plans

- Mulhockaway Creek Watershed Study
- Regional Stormwater Mgt Plan for Pleasant Run and Holland Brook Watershed
- Regional Stormwater Management Plan Sourland Mountain
- Watershed Restoration Plan for the Neshanic River Watershed
- Watershed Protection Plan for Sidney Brook
- Regional Stormwater Management Plan for the Devils, Shallow, Cedar and Cranbury Brooks