

# Governor's Barnegat Bay Priority Initiative

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# Governor's 10 Point Plan for Barnegat Bay

1. Close Oyster  
Creek

2. Fund Stormwater  
Mitigation Projects

3. Reduce Nutrient  
Pollution from Fertilizers

4. Require Post-Construction  
Soil Restoration

5. Acquire Land in the  
Watershed

6. Est. Special Area  
Management Plan

**7. Adopt More Rigorous  
Water Quality Standards**

8. Educate the Public

9. Fill in Research Gaps

❖ Develop model

10. Reduce Water Craft  
Impacts



# But we have lots of data...

- Quantity/ flow
- TIMING!
- Salinity
- N/P/C
- pH/ temp/ DO
- Silica



# What do we need for a TMDL?

- 13 tributaries and 14 Bay stations synoptic
- Data every 2 weeks – winter 1x month
- Intensive sampling next summer
- Known data quality/ analysis



# How do we do all that?

- Use technology – continuous monitors, grab samples
- Use USGS – signed JFA
- Get some Partners!



# Partners

Barnegat Bay Partnership



Brick Township MUA



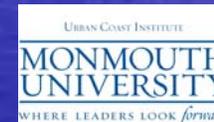
DEP Forest Resource Education Center



EPA Region 2



Monmouth University/Urban Coast Institute



Ocean County Health Department



Ocean County Utilities Authority



Ocean County Vocational Technical School - MATES



Pinelands Commission



US Geological Survey



# Problems?

- Filtration – FREC and DEP mobile lab
- Training/ QA – OQA partner
- Water main break outside Ocean CC - Rutgers Extension Service room
- Carbon measurement in Salt water



## 7. Adopting More Rigorous Water Quality Standards

ID	Task Name	2010	2011				2012				2013				2014				2015		
		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
1	Adopt narrative nutrient criteria	█																			
2	Install water flow gaging				█																
3	Complete mapping of bay bottom				█																
4	Assess water quality conditions for report to Legislature							█													
5	Water quality monitoring program for model development			█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
6	Evaluate EPA Marine DO Criteria			█	█	█															
7	Develop hydrologic model					█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
8	Develop hydrodynamic model					█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
9	Develop watershed model						█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
10	Develop water quality model						█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
11	Ensure integration of models				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
12	Scenario testing: numeric nutrient targets																			█	█
13	Scenario testing: WQ impairments																			█	█
14	Scenario testing: impacts of OCNCS																			█	█
15	Scenario Testing: Augmenting FW flows to bay-Reuse																			█	█



# What's next?

- Bathymetry – USGS/ Monmouth University/ Dave Rosenblatt
- Sediment samples
- Model testing - USGS



# Barnegat Bay Website

[www.state.nj.us/dep/barnegatbay/plan-wqstandards.htm](http://www.state.nj.us/dep/barnegatbay/plan-wqstandards.htm)

- Press Event

