

Eutrophication Modeling Expert Panel's recommended upgrades to the Boat Run Monitoring Program

MAC

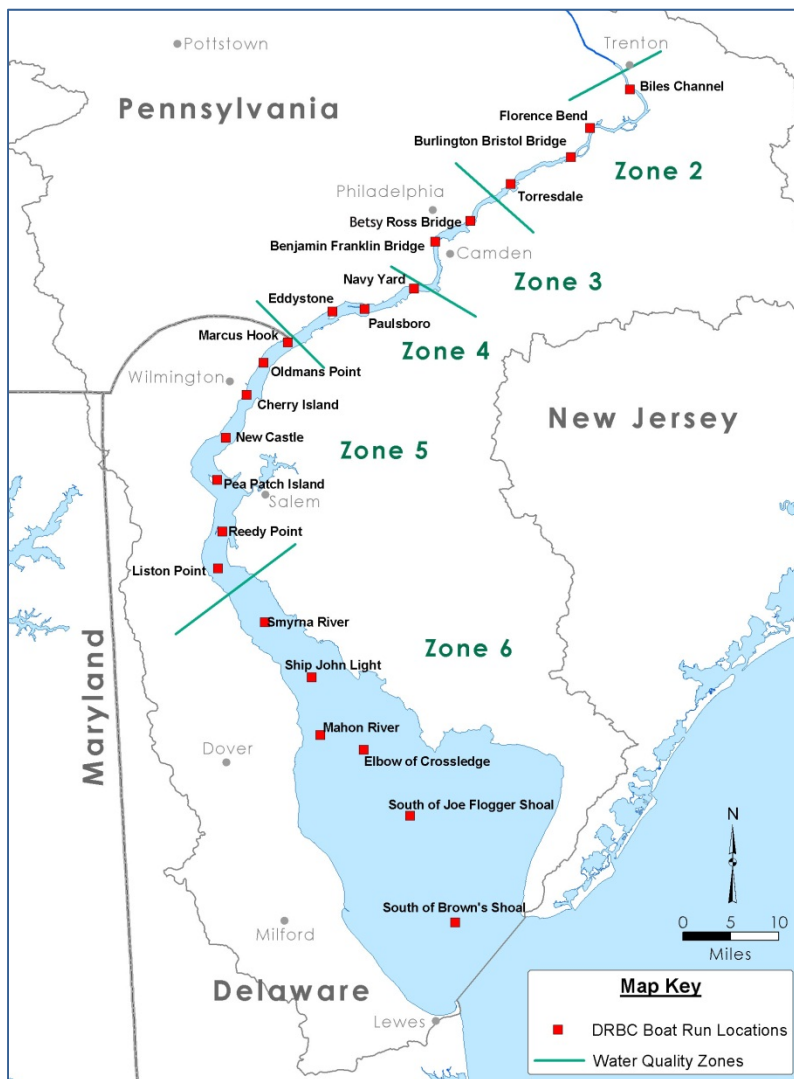
January 9, 2013



John Yagecic, P.E.

Current Boat Run

Once per month, April through
October (7 events/year)



Analytical Parameters of Interest

- Alkalinity (Titrimetric, pH 4.5)
- Carbon, Organic - Dissolved (DOC)
- Carbon, Particulate³
- Chloride, Total
- Conductance, Specific - Field
- Hardness as CaCO₃
- Nitrogen, Total, Alkaline Persulfate
- Orthophosphorus, Soluble
- Oxygen, Dissolved - Membrane Electrode
- Oxygen, Dissolved - Saturation
- pH, Field
- Phosphorus, Total, Alkaline Persulfate
- Residue, Filterable (TDS)
- Residue, Nonfilterable (TSS)
- Salinity
- Secchi Depth in Meters
- Temperature, Air
- Temperature, Water
- Turbidity (Nephelometric)
- Ammonia as N, Dissolved
- Nitrate as N, Dissolved
- Nitrate/Nitrite as N, Dissolved
- Nitrite as N, Dissolved
- Nitrogen, Dissolved, Alkaline Persulfate
- Nitrogen, Particulate³
- Phosphorus, Dissolved, Alkaline Persulfate
- Phosphorus, Particulate³
- Chlorophyll-a₃
- Silica, Dissolved

Recommended Additions

(seeking additions for 2013)

- Photosynthetically active radiation (PAR) paired with each secchi depth measurement;
- Primary production;
- Better understanding of spatial and temporal extent of DO depression in the Delaware Bay, particularly in the bottom waters in the channel