NJ Water Monitoring & Assessment Technical Workshop
Rutgers EcoComplex, Columbus, NJ
April 20, 2006

Theme: Integrated Monitoring to Enhance Water Resource Management

FINAL AGENDA

8:30-9:00am  Registration & Posters

9:00-11:10am  Plenary Session & Keynote
9:00-9:05 AM  Welcoming Remarks - Rick Kropp (USGS/NJ Water Science Center)
9:05-9:45 AM  Water Monitoring in the Age of Information (Keynote)
              - Tracy Mehan (The Cadmus Group, former EPA Office of Water Assistant Administrator)
10:05-11:10 AM Panel: Water Monitoring in NJ – Current & Future Directions
              Moderator: Robert Tudor (Delaware River Basin Commission)
              Speakers: David Stedfast (USGS/NJ Water Science Center), Karl Muessig (NJDEP/NJ Geological Survey), Alfred Korndoerfer (NJDEP/Water Monitoring & Standards), Robert Connell (NJDEP/Water Monitoring & Standards), Debra Hammond (NJDEP/Water Monitoring & Standards)

11:10-11:30am  Break & Posters

11:30am-12:45pm  Breakout Session #1
Topics: Emerging Technologies – Water Quality
          Stormwater
          Mercury: Impacts, Sources & Monitoring

12:45-1:45pm  Lunch (with speaker)
EcoComplex Welcome – Keith Cooper (Executive Vice Dean of Agriculture and Natural Resources and Executive Director of the Rutgers EcoComplex)
Lunch Topic: IOOS: Linking Resource Management to Monitoring
Speaker: J. Frederick Grassle, Rutgers Institute for Marine & Coastal Sciences

1:45-3:00pm  Breakout Session #2
Topics: Emerging Technologies – Water Quantity/Flow
          Nutrients/Biocriteria
          Microbial Source Trackdown

3:00-3:30pm  Break & Posters

3:30-4:45pm  Breakout Session #3
Topics: Emerging Contaminants
          Ecological Monitoring
          Recreational Beach Monitoring

4:45pm  Depart
Breakout Sessions

Session 1
A. Emerging Technologies: Water Quality
   Robert Connell, NJDEP/Water Monitoring & Standards - Moderator
   • Integrated Approaches for Coastal Monitoring (Robert Connell, NJDEP/Water Monitoring & Standards)
   • The Evolution of the NJ Observing System: The Potential for Water Quality Management (Oscar Schofield & Scott Glenn, Rutgers Institute for Marine & Coastal Sciences)

B. Stormwater Monitoring
   Kirk Barrett, Passaic River Institute/Montclair State University - Moderator
   • Monitoring Stormwater for Development of TMDLs (Chris Obrupta, Rutgers Cooperative Extension/Cook College, Department of Environmental Sciences)
   • Monitoring Urban Stormwater Best Management Practices: Why is it Important and What to Monitor (Dr. Scott Struck, EPA National Risk Management Laboratory, Edison)
   • Monitoring Stormwater from Industrial Sites for Permit Compliance and Environmental Effects: a 10 Year Review (Brian McLendon, NJDEP/Division of Water Quality)

C. Mercury: Impacts, Sources & Monitoring
   Leslie McGeorge, NJDEP/Water Monitoring & Standards - Moderator
   • Why Monitor for Mercury: Overview of Bioaccumulation, Concentrations, Fish Advisories and Criteria in NJ (Gary Buchanan, NJDEP/Division of Science, Research & Technology)
   • Sources of Mercury to New Jersey’s Environment and TMDL Development: What’s New? (Michael Aucott, NJDEP/Division of Science, Research & Technology)
   • Low Level Mercury Monitoring: Part A: Method 1631E-Mercury Laboratory Analysis (Anthony Carroll, EPA Region 4, Science and Ecosystems Support Division); Part B: Field Procedures and Preliminary Water Results (Thomas Vernam, NJDEP/Water Monitoring & Standards)

Session 2
A. Emerging Technologies: Water Quantity/Flow
   Richard Kropp, USGS NJ Water Science Center - Moderator
   • New Technologies for Measuring Stream Flow (Timothy Reed, USGS/NJ Water Science Center)
   • Measuring Evapotranspiration in the Pinelands (Robert Nicholson, USGS/NJ Water Science Center)

B. Nutrients/Biocriteria
   Thomas Belton, NJDEP/Division of Science, Research & Technology - Moderator
   • Diatom-Based Models and Indices for Monitoring Nutrient Enrichment in NJ Streams (Dr. Don Charles, The Philadelphia Academy of Natural Sciences)
   • A Nutrient Biotic Index (NBI) for Use with Benthic Macroinvertebrate Communities (A.J. Smith, NYDEC/Stream Monitoring)
   • Nutrient TMDL Development for New Jersey - New York Harbor Estuary (Marzooq Al-Ebus, NJDEP/Division of Watershed Management)
   • Delaware Estuary Nutrient Approach (Edward Santoro, Delaware River Basin Commission)

C. Microbial Source Trackdown
   Robert Connell, NJDEP/Water Monitoring & Standards - Moderator
   • New Jersey’s Strategy for Microbial Source Tracking (Eric Feerst, NJDEP/Water Monitoring & Standards)
   • Monmouth University’s MST Work (John Tiedemann, Monmouth University)
   • Shoreline Surveys and an Innovative CEHA Laboratory (William Simmons, Monmouth County Health Department)
Session 3

A. Emerging Contaminants
   Richard Kropp, USGS NJ Water Science Center - Moderator
   • Pesticide Degradates (Jeffrey Fischer, USGS/NJ Water Science Center) • Tentatively Identified Compounds (TICs) by State-of-the-Art Solid Phase Extraction: Mining the Preliminary Results (Lee Lippincott, NJDEP/Division of Science, Research & Technology) • Emerging Contaminants in our Water Resources (Herb Buxton, USGS/NJ Water Science Center)

B. Ecological Monitoring
   Alfred Korndoerfer, NJDEP/Water Monitoring & Standards - Moderator

C. Recreational Beach Monitoring
   Becky Cosgrove, Monmouth County Health Department - Moderator
   • NJDEP Cooperative Coastal Monitoring Program (Virginia Loftin, NJDEP/Division of Watershed Management) • 2006 EPA Water Quality Monitoring Program (Helen Grebe, EPA Region 2, Monitoring and Assessment Branch) • County Beach Monitoring Program (Becky Cosgrove, Monmouth County Health Department)