



John S. Truhan Consulting Engineers, Inc.



## Metedeconk River Watershed Protection Plan

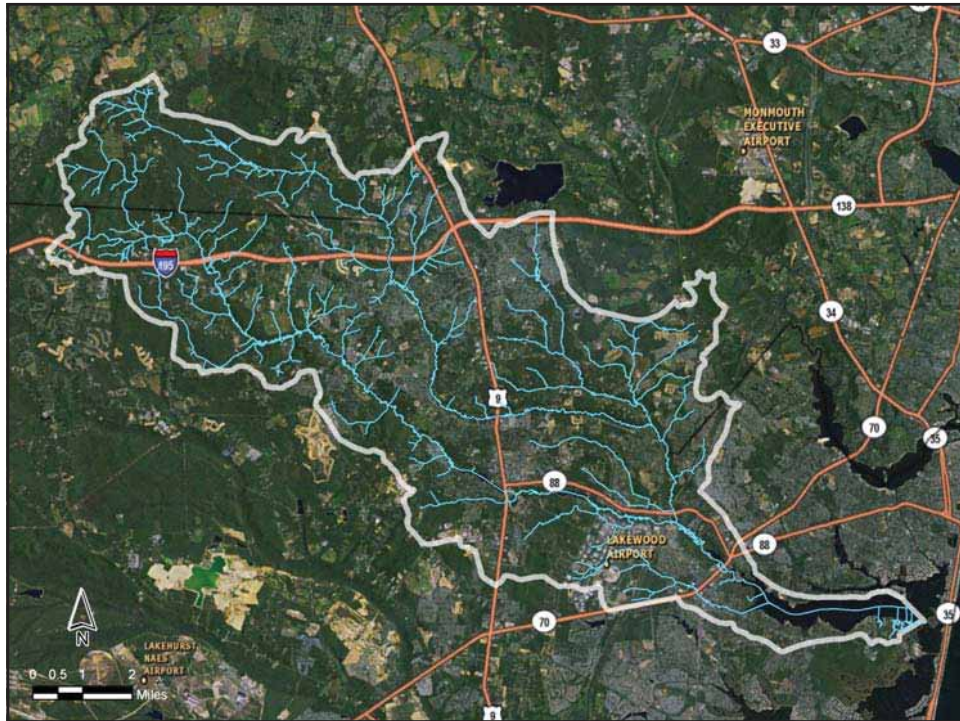
### Stakeholder Advisory Committee Introductory Meeting

*January 13, 2010*



## Meeting Outline

- ◆ Introduction to Project & Project Team
  - ◆ Brick MUA, NJDEP, BBNEP, stakeholders
  - ◆ Project Background
    - Previous work
- ◆ Project Communication
- ◆ Project Tasks
- ◆ Goals & Objectives
  - ◆ Preliminary
  - ◆ Stakeholder Recommendations



## Project Outline

- ◆ Purpose of project
  - ◆ Build upon existing studies
    - Tie-in previous studies
  - ◆ Develop an implementation strategy with management actions
  - ◆ Stakeholder Priorities / Involvement
  - ◆ Eleven (11) separate tasks
- ◆ Stakeholder Advisory Committee Role
  - ◆ Provide critical analysis of the project progress and direction
  - ◆ Six meetings throughout life of project

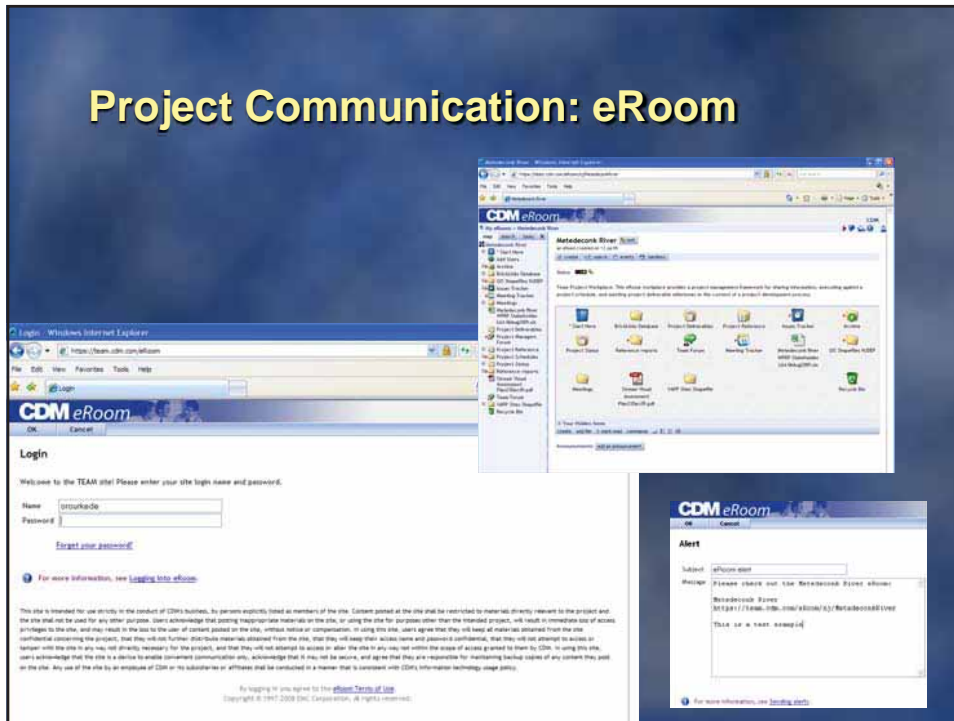
## Project Background

- ◆ Recent History of Metedeconk River Investigations
  - ◆ Metedeconk Watershed Management Plan Phase I: Watershed Characterization and Preliminary Analysis (Brick MUA and CDM; 2000)
  - ◆ Trust for Public Land Source Water Stewardship Project (Brick MUA; 2003)
  - ◆ Phase I Diagnostic – Feasibility Study of Lake Carasaljo (Lakewood Twp and Birdsall Engineering; 2005)
  - ◆ Comprehensive Conservation and Management Plan – Barnegat Bay National Estuary Program
  - ◆ Barnegat Bay 2020 – A Vision for the Future of Conservation (Trust for Public Land; 2008)
  - ◆ Barnegat Bay NEP Strategic Plan 2008-2011 (BBNEP, 2008)

## Goals & Objectives

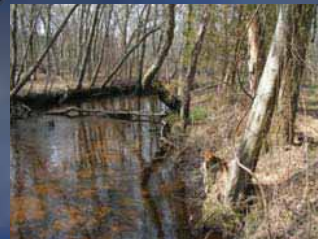
- ◆ Over-riding goal: *“to preserve the Metedeconk River as a viable water supply source for the region, protect the health of the Barnegat Bay Estuary, eliminate water quality impairments and attain compliance with the surface water quality standards throughout the watershed”*
- ◆ Task 1: Stakeholder Advisory Committee
  - ◆ Preliminary goals and objectives
  - ◆ Purpose of meeting

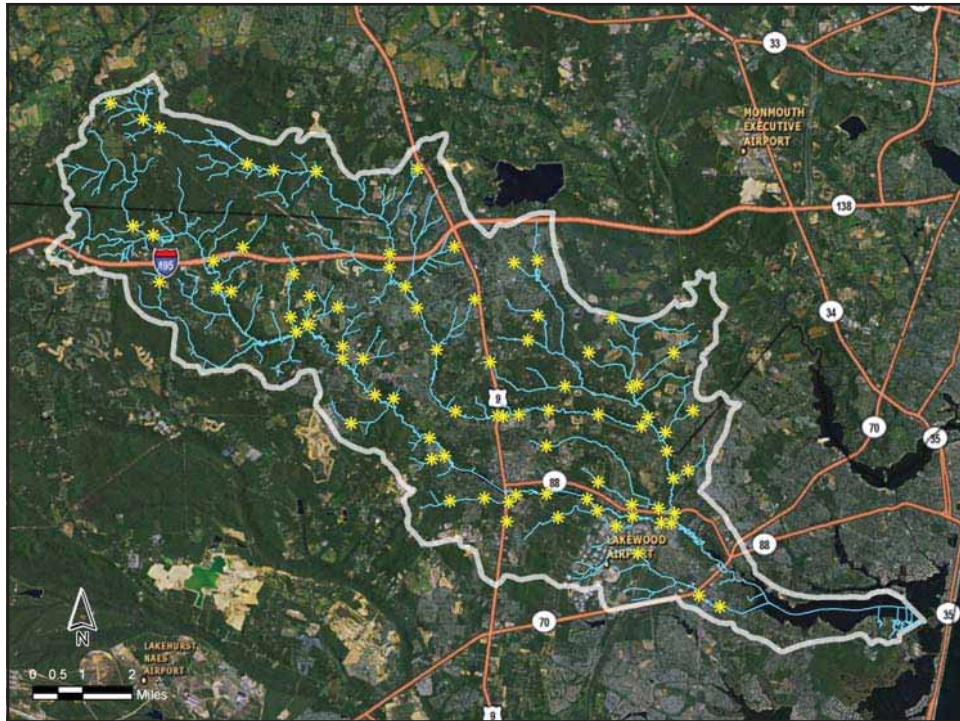
## Project Communication: eRoom



## Task 2: Visual Assessment Project Plan (VAPP)

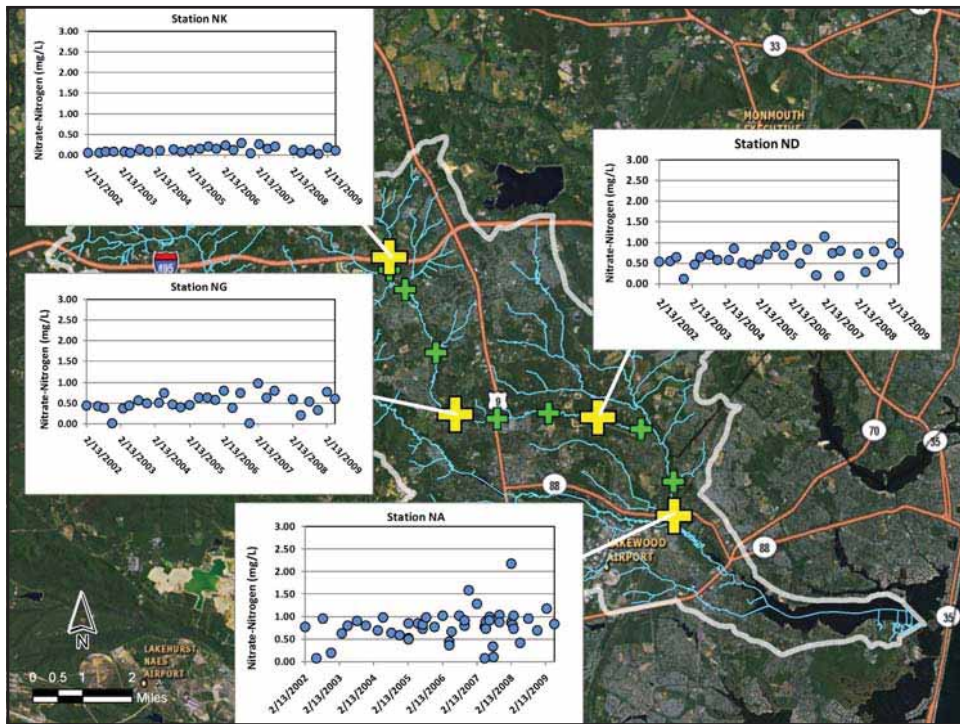
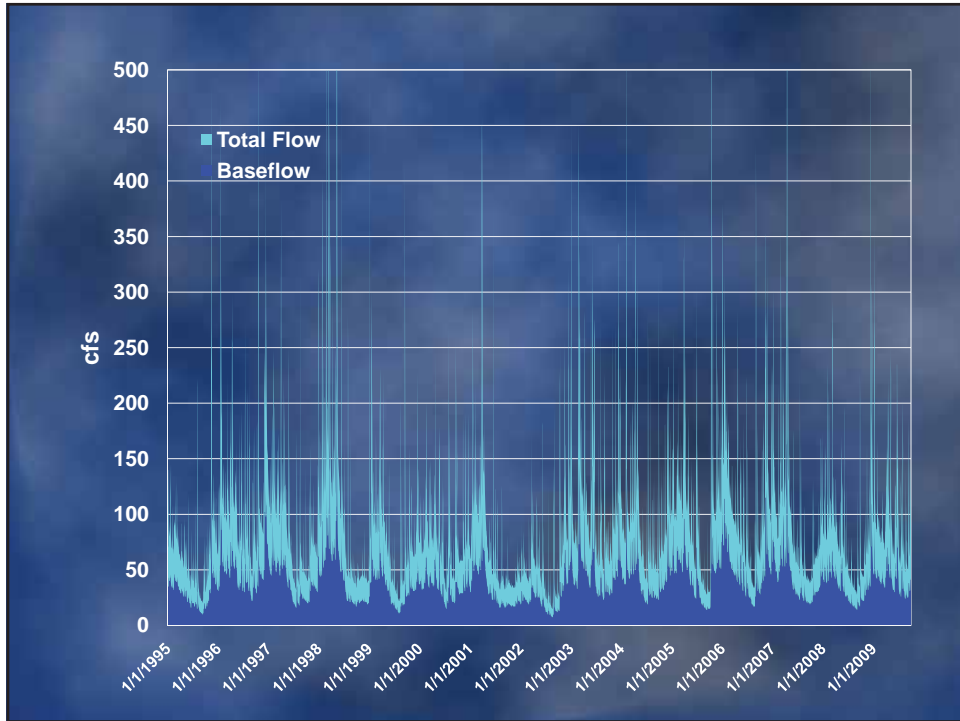
- ◆ Brick MUA
- ◆ Based on NJDEP and other protocol (USDA, etc)
- ◆ Visual inspection of the stream
  - ◆ 82 sites
- ◆ Identify potential problem areas
  - ◆ Possible mitigation areas
- ◆ VAPP has been developed and submitted to NJDEP for approval

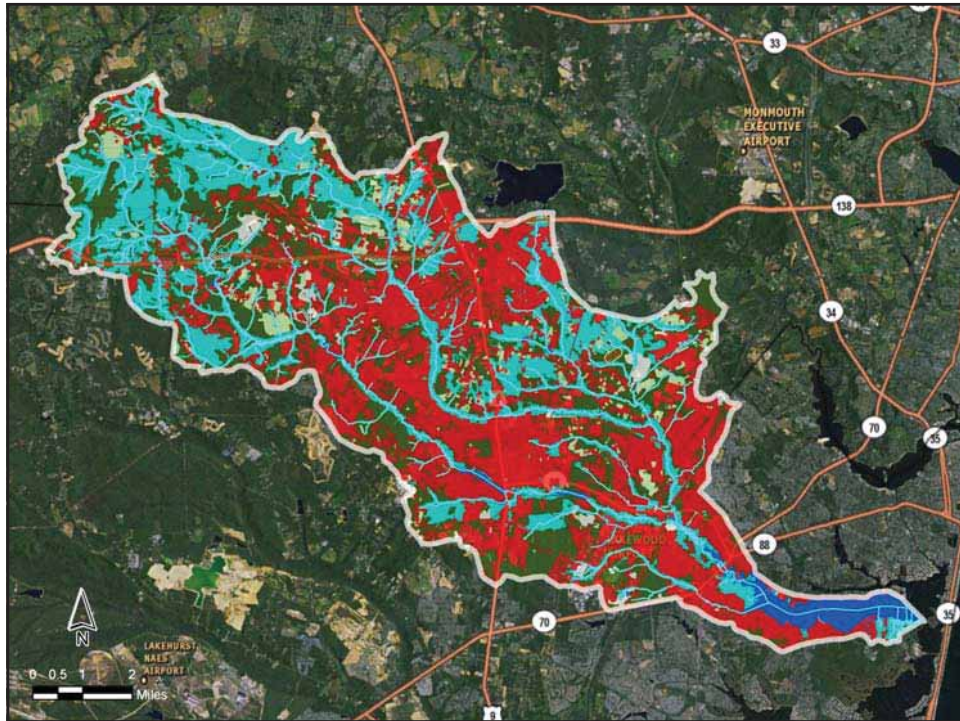




### Task 3 – Technical Analysis

- ◆ Build upon existing data and recent reports
  - ◆ Phase I Diagnostic-Feasibility Study of Lake Carasaljo
  - ◆ TMDLs (phosphorous, coliform, pathogens)
    - Non-point sources / stormwater
  - ◆ BBNEP CCMP
  - ◆ Recently collected water quality data (BTMUA)
  - ◆ USGS
    - Stream flow, water quality, water levels, etc.
  - ◆ Evaluate water resource management
    - Stormwater management plans, NJPDES permit compliance documents, etc.
    - Category One designation





## Task 4 – Set Plan Objectives

- ◆ Preliminary objectives (established here or shortly after) will be re-evaluated following VAPP and Technical Analysis
  - ◆ Primary goals:
    - Maintain adequacy for future water supply
    - Support health of Barnegat Bay
    - Eliminate water quality impairments and maintain the Category One standard (non-degradation standard)

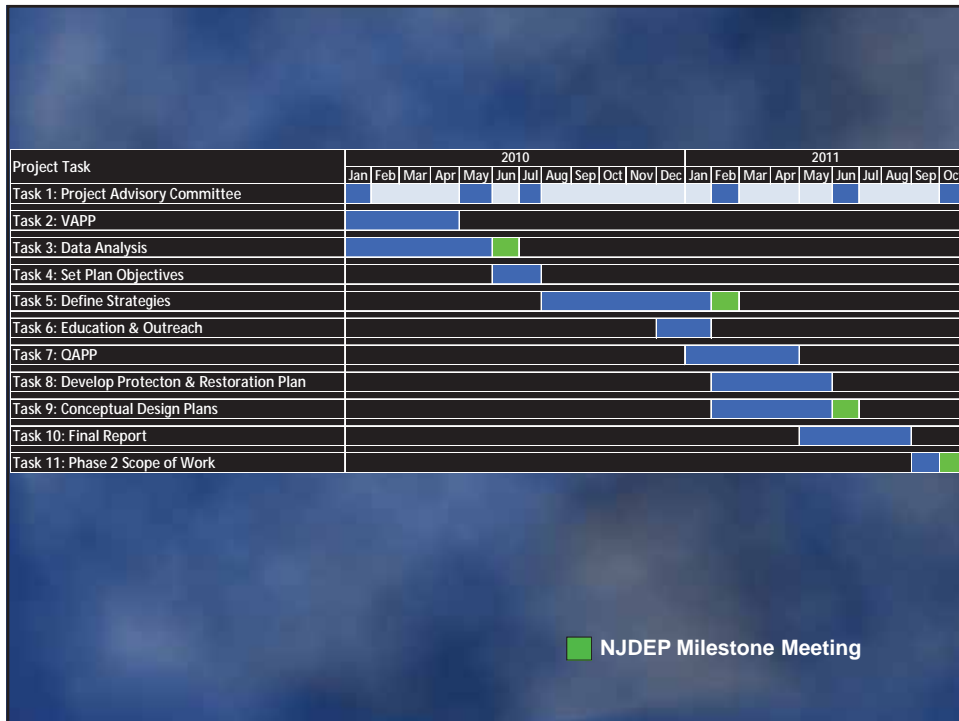
## **Task 5: Identification of Watershed Management Strategies**

- ◆ Strategies must be able to meet objectives which are concrete and measurable
- ◆ Strategies will be prioritized through the Stakeholder Advisory Committee
  - ◆ BMPs / LID
  - ◆ Stream bank stabilization

## **Later Tasks**

- ◆ Task 6 – Education and Outreach
- ◆ Task 7 – Develop and Implement Quality Assurance Project Plan
- ◆ Task 8 – Development of the Metedeconk River Watershed Protection and Restoration Plan
- ◆ Task 9 – Development of Conceptual Design Plans
- ◆ Task 10 – Final Report
- ◆ Task 11 – Implementation (Phase 2) Scope Development





## Setting Preliminary Goals & Objectives

- ◆ Objectives must be set so they are concrete and measureable and are carried out through a series of one or more actions
- ◆ Example
- ◆ Goal 1: Maintain adequacy for future water supply
- ◆ Objective (quantity): Maintain recharge in watershed to sustain baseflow
  - ◆ Implementation Actions: Enhance infiltration / recharge, incorporate LID concepts on all new development and retrofit into older developments; address groundwater allocation
- ◆ Objective (quality): Reduce nutrient loading to Metedeconk
  - ◆ Implementation Actions: Work with golf courses/farmers/homeowners to implement stormwater runoff capture / BMPs at selected areas

## Setting of Preliminary Goals & Objectives

- ◆ Break
- ◆ Move to spreadsheet

## Stakeholder Advisory Committee

- ◆ Chair/Co-Chair:
  - ◆ Justin Flancbaum (Lakewood Twp)
  - ◆ Dr. Stan Hales (Barnegat Bay National Estuary Program)
  - ◆ Robert Karl (Brick MUA)
  - ◆ Representative from Jackson Township
  - ◆ Representative from USGS
  - ◆ Others?

## Next Steps

- ◆ Meeting 2: Technical Analysis
  - ◆ Draft will be issued in advance
    - eRoom
  - ◆ Goals & Objectives
    - Revisited
    - Initial discussions for Meeting 3

## Closing Remarks

- ◆ Project communication through eRoom
  - ◆ Posting of meeting minutes, power point presentation and other materials
- ◆ Next meeting - target May 2010
  - ◆ Following completion of Task 3 document

## Project Contacts

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