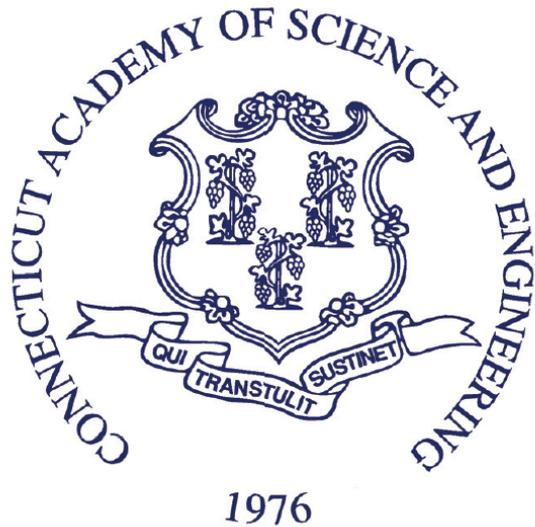


PA 12-155 Scientific Methods Workgroup Updates

Connecticut Department of
Energy and Environmental Protection



May 12, 2014



Dr. Peter Raymond, Yale University-
Study Manager

CASE Project Staff

Richard Strauss-Executive Director

Terri Clark-Associate Director

- Private, nonprofit, public-service institution patterned after the National Academy of Sciences
- Provides unbiased, expert advice on science and technology-related issues to state government and other Connecticut institutions



Connecticut Department of Energy and Environmental Protection

CASE Scope of Work

1. How does phosphorus impact water quality in general and what factors are important in CT?
2. What is CT's current approach to addressing phosphorus to achieve water quality standards?
3. How can phosphorus impacts be measured in non tidal waters such that relevant stressors are considered to achieve water quality standards?
4. What methods are appropriate for use in CT to measure phosphorus impacts on water quality and aquatic life and other designated uses?



CASE Progress Report

- ✓ Have met 3 times with study work group since last Coordinating Committee meeting on February 10, 2014
- ✓ Indicated that “fact finding” is coming to close
- ✓ Switch focus to summarizing findings in draft form
- ✓ Future meeting will discuss straw proposal for response indicators



February 24, 2014 CASE Meeting

- Warren Kimball MA DEP
Massachusetts Nutrient Management Framework
- Ralph Abele and Dave Pincumbe- USEPA
Nutrient Limits EPA Region 1
- Rowland Denny and Chris Malik- DEEP Updates
from Workgroups 1 and 3
- Peter Raymond- *Research Team Update*



March 26, 2014 CASE Meeting

- Part A-

Dr. Jeroen Gerritsen and Dr. Mike Paul- Tetra Tech
*Biological Condition Gradient – Partitioning
Causation of Confounding Variables*

- Part B

CLOSED SESSION – STUDY COMMITTEE ONLY
Committee Discussion – Brainstorming Session
Peter Raymond, Study Manager



May 1, 2014 CASE Meeting

- Dr. Mike Suplee MT DEQ

Montana's Approach to Phosphorus: Combined Criteria Implementation Scheme

- Dr. Tom Danielson ME DEP

Maine's Approach to Phosphorus: Combined Criteria Implementation Scheme

- David Keiser CASE Committee Member

An Economics Approach to Measuring the Impacts from Phosphorus

- Peter Raymond Study Manager- *Research Team Update*



Thoughts on Quinnipiac River from CASE

- Investigate sediment concentrations of phosphorus in the system
- Sampling water chemistry from tributaries could help quantify nonpoint source load to get at land management
- Continuous dissolved oxygen could be a helpful response variable to measure
- New technology- Isotopes for “fingerprinting” sources of phosphorus

