

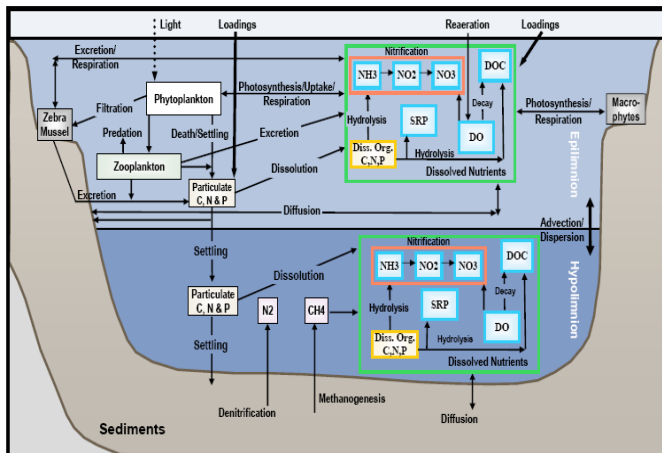


OLP GRANT AGREEMENT FOR THE ONONDAGA LAKE WATER QUALITY MODEL (OLWQM)

Project Description: The purpose of this project is to develop and implement a mechanistic water quality model of Onondaga Lake. The Onondaga Lake Water Quality Model (OLWQM) will provide a state-of-the-science, predictive water quality management tool for the Onondaga Lake and associated hydrologic systems. The OLWQM will provide the critical link between the OLP sponsored, USGS developed Surface Watershed Model and the existing Three Rivers Water Quality Model (TRWQM) developed by Quantitative Environmental Analysis, LLC (QEA) and the County.

The development of the OLWQM will be accomplished in three phases:

- Phase 1: Development of the modeling work plan;
- Phase 2: Development, calibration, and initial application of the integrated lake/river model;
- Phase 3: Model validation, integration with the watershed model, and application.



Conceptual Model of Onondaga Lake Water Quality Dynamics

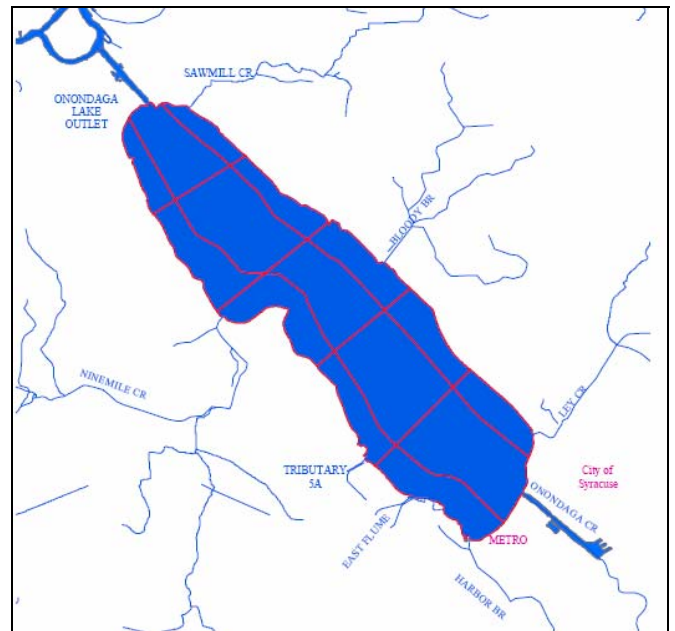
The model will complete an integrated management tool for the Onondaga Basin and receiving riverine system. Corollary objectives of model development include:

- Provide more accurate external loading information to the TRWQM as highlighted by the recent peer review, both for assessment of the assimilative capacity of the river and to facilitate total maximum daily load (TMDL) development for the river;
- Evaluate the response of Onondaga Lake to any potential Metro effluent diversion scenarios;
- Provide a mechanistic means for assessing the impact of Metro upgrades, watershed best management practices (BMPs) and combined sewer

overflow (CSO) abatement measures on the water quality of Onondaga Lake; and

- Facilitate development of the revised phosphorus and ammonia TMDLs for the lake scheduled for 2009.

Location: The project area consists of Onondaga Lake, Onondaga County, New York.



Preliminary Model Grid for Onondaga Lake

Project Sponsor: Onondaga County serves as the non-Federal sponsor of this Onondaga Lake Partnership project, and the U.S. Army Corps of Engineers serves as the Federal sponsor. Federal funding is provided through a U.S. Army Corps of Engineers grant to Onondaga County.

Current Status: Project status is as follows:

- Onondaga County has acquired the services of Quantitative Environmental Analysis, LLC (QEA) in Liverpool, NY for development of the Onondaga Lake Water Quality Model.
- Phase 1 of the project is scheduled for completion in October 2006. Finalization of written responses to comments received during the peer review of the work plan will mark the completion of Phase 1 of the project.
- Project completion is currently scheduled for Spring of 2009.