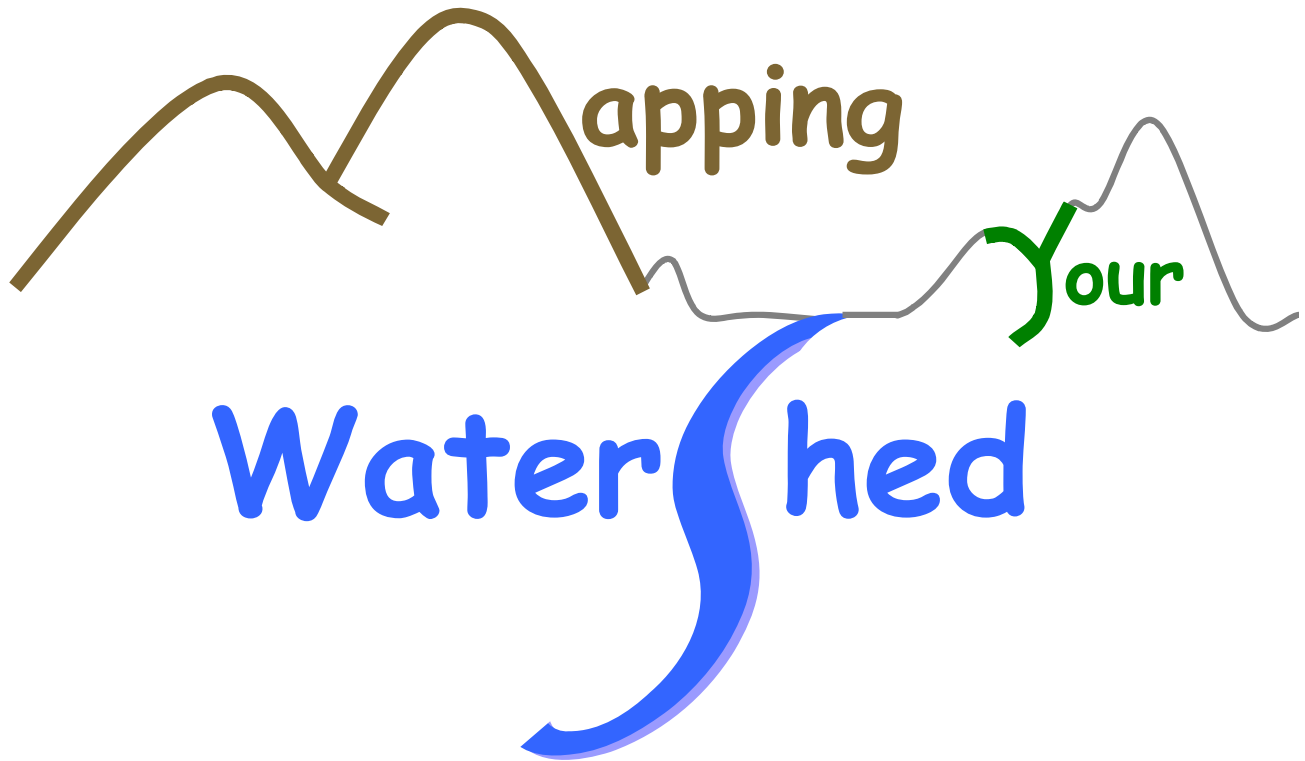




Northampton County Conservation District

TEA Continuing Education Workshop:



Reading Topographic Maps and Watershed Delineation

Date: Wednesday, October 29, 2008

Time: 8:30AM – 4:00PM

Location: PPL Martins Creek Power Plant

Capacity: 20 Teachers (most appropriate for middle & high school teachers)

Registration Deadline: October 8, 2008

A Watershed Tool Kit will be provided to each participating educator.



Lunch will be provided, too!



A total of six (6) Act 48 Professional Development Activity Hours will be granted to PA and NJ registered teachers upon completion of the course.

*“Any river is really the summation of the whole valley.
To think of it as nothing but water is to ignore the greater part.”*

- Hal Borland: *This Hill, This Valley*

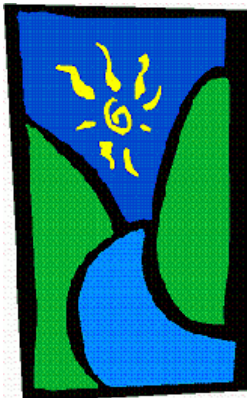
"Mapping your Watershed": Reading Topographic Maps and Watershed Delineation

The workshop will include instruction, discussion, field experience, and activities conducted by:

- Northampton County Conservation District (NCCD)
- Delaware River Basin Commission (DRBC)
- Martins-Jacoby Watershed Association (MJWA)
- PA Department of Environment Protection (PA DEP)
- PPL Corporation
- Nurture Nature Foundation (NNF)

The workshop will provide educators with an introduction to the interpretation and application of topographic maps in reference to watersheds. The workshop will also include an overview of watersheds and their current issues and threats, including non-point source (NPS) pollution, flooding, and land use. Field exercises will include the use of various tools for field watershed delineation and a Watershed Walk along the Delaware River which will cover: how the water shapes the land, how the land shapes the water, and how human land use and activity is affected by the watershed. NOTE: trail terrain is moderate to rocky, approx. 2-hour hike.

The purpose of the workshop is to provide educators with curriculum based material and to provide educators with required CEUs. The content of this workshop meets the Pennsylvania Academic Standards for Science & Technology and Environment & Ecology for grades 4 through 12, including such topics as unified themes, earth sciences, watersheds, environmental health, and humans and the environment.



Workshop topics:

- Watershed Basics
- Discussion of Delaware River Basin & Martins-Jacoby Watershed
- Topographic Map Terminology & Interpretation
- Aerial Photographs vs. Stereo Photographs
- Watershed Delineation (Classroom & Field)
- Current Watershed Issues and Threats
- Watershed Walk & Activities



**Call or email NCCD with questions
(610) 746-1971 / northamptoncd@northamptoncd.org**

Registration and a \$10 fee are required for the workshop. Please complete the attached form to register.

Please complete the form below and detach, include \$10 (cash/check), and mail the fee and registration form to the Northampton County Conservation District, Greystone Building, 14 Gracedale Avenue, Nazareth, PA 18064-9211. Please make checks payable to: Northampton County Conservation District (NCCD). Upon receipt of your registration, a workshop packet will be sent to you with directions and additional details.

Registration Deadline is October 8, 2008

Name: _____

Organization/School: _____

Grade Level: _____

Are you a registered teacher with PA Department of Education? Circle YES or NO

Address: _____

City: _____ Zip code: _____

Phone: (_____) _____

Email _____