

Monitoring Ecological Recovery of the Torch Lake Superfund Sites

8:30 AM-4:00 PM, Wednesday-Thursday, Aug. 20-21, 2003

For Middle & High School Science & Math Teachers

MichiganTech

Workshop Sponsors

EPA

U.S. Environmental Protection Agency, Western U.P. Center for Science, Mathematics and Environmental Education, Houghton-Keweenaw Conservation District, Torch Lake Public Action Committee, and Michigan Technological University

WORKSHOP AGENDA

Wednesday, August 20

8:30-Noon Program Overview & Goals (875 Dow, MTU)

- History of Torch Lake Superfund Site
- Superfund Remediation Objectives
- Monitoring Results to Date
- Teacher Participant Requirements

Noon-1:00 pm Lunch (on campus – provided)

1:00-4:00 PM Introduction to Sampling Methods

Thursday, August 21

8:30-Noon PM Conduct Sampling at Mason site

- Collect soil samples for fertility testing (pH, nutrients)
- Measure plant species distribution; collect voucher specimens, plant identification; plant biomass production; plant root penetration; soil coverage by vegetation.
- Conduct qualitative bird community surveys.

Noon-1:00 PM Lunch

1:00-4:00 PM Tour & Collect Data at Torch Lake Superfund Project Sites:

- Dollar Bay/Point Mills
- Hubbell/Tamarack City
- Lake Linden Village Park

For More Information

Contact Joan Chadde at jchadde@mtu.edu or call (906) 487-3341. Registration deadline: August 1st

Location

The workshop will take place at Michigan Tech University and at the Torch Lake Superfund sites.

Cost

\$100 per person (includes field trip transportation, monitoring equipment, handouts, and lunch each day). Make checks payable to the Western U.P. Center for Science, Math & Environmental Education. *Participants in the CCISD Eisenhower Consortium can have their registration fee reimbursed after their attendance has been confirmed at the workshop.*

Presenters

- Brenda Jones has been working for the U.S. Environmental Protection Agency on the Torch Lake Superfund Site since 1999. She became the Torch Lake Superfund Site project manager in 2003.
- Rich Henry, a wildlife biologist and aquatic ecologist with the U.S. Fish & Wildlife Service, conducted the remediation monitoring at Torch Lake in 2002.

What to Bring

binoculars raingear backpack
insect repellent water bottle hiking shoes
Much of the workshop will take place outdoors. Participants should be prepared for windy, cold, or rainy weather.

Credit

1.0 credit from Northern Michigan Univ. (ED 989; \$214/credit) and Michigan Tech Univ. (ED 5540; \$198/credit) *is available.*

Monitoring Ecological Recovery at the Torch Lake Superfund Sites ~ A Teacher-Training Workshop

REGISTRATION FORM

Name: _____ Home Phone: _____

School: _____

Subject(s) Taught: _____ Grade(s) Taught: _____ Email Address: _____

(Make \$100 registration fee payable to Western U.P. Center for Science, Math & Environmental Education.)

REGISTRATION DEADLINE: August 1. Mail to Joan Chadde, Western U.P. Center, 105 Dilman Hall, MTU, 1400 Townsend, Houghton, MI 49931

