



Natural Resources
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Toxicological Investigations of Mining Effluents (TIME) Network

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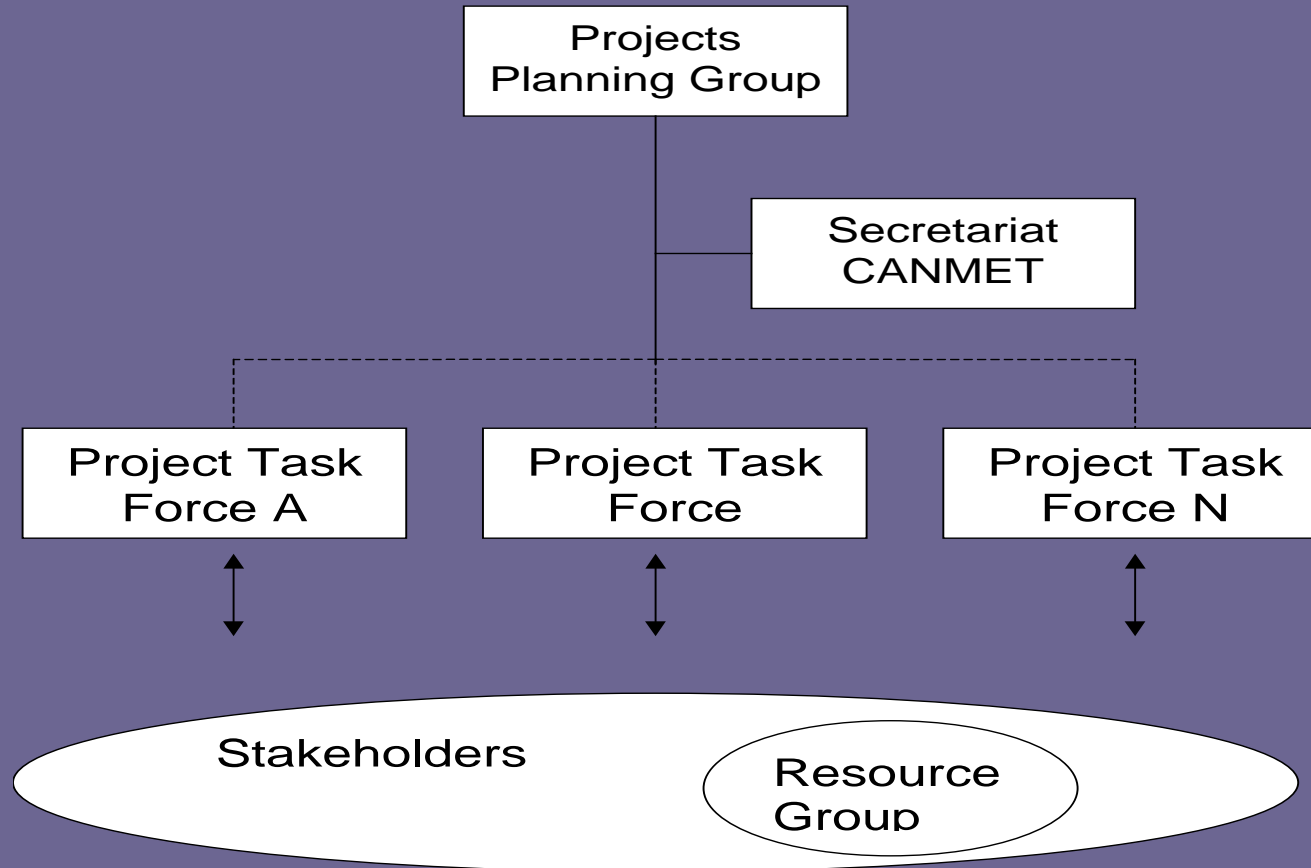
BACKGROUND

- Initiative arose from the proposed MMER requirement for non-acutely lethal effluents (NLE)
- First workshop held in November 1999
- Participants identified a number of “priority” issues

TIME NETWORK - PHASE I

- Launched May 2000; ends December 2001
- Projects, Secretariat, workshop and program support funded by EC, MAC, NRCan and Ontario

ORG CHART FOR TIME NETWORK



OBJECTIVES

- To undertake projects that will broaden the knowledge base with respect to causes of, and solutions to, effluent toxicity
- Investigate and develop methodologies to identify causes and solutions to reduce or eliminate toxicants
- Look for cost-effective and environmentally sound treatment technologies to consistently achieve NLE
- Provide a mechanism for the sharing of information

PRIORITY PROJECTS

- Development of a TI/RE/TE Guidance Document
 - *EC and MAC*
- BMP for Ammonia in Mining Industry
 - *MAC*
- Development of Guidance Document for Acute Lethality Testing of Metal Mining Effluents
 - *EC and Ontario (in-kind)*
- Literature Review of Hg, Cd, Se and Sb
 - *NRCan, EC and MAC*

INFORMATION TRANSFER

- TIME Website
<http://envirolab.nrcan.gc.ca/time/time-e.htm>
- Newsletter
- Reports and Proceedings
- TIME Workshops
- Presentations

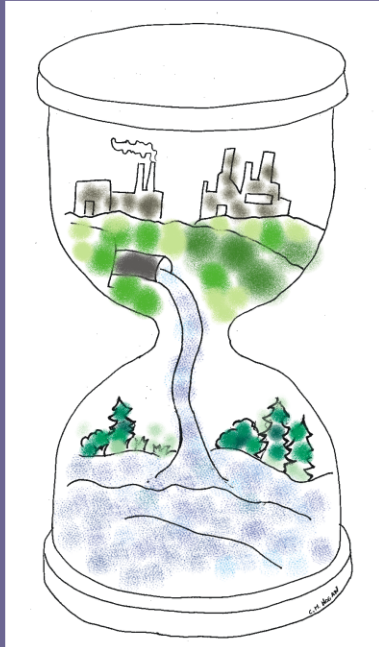
OBJECTIVES FOR WORKSHOP

- To discuss the findings of TIME-sponsored projects conducted to date and potential future projects;
- To share new information and developments, including success stories and challenges, with respect to the acute toxicity of mining effluents;
- To discuss next steps with a focus on the future of the TIME Network.

Workshop Overview

Toxicological Investigations of
Mining Effluents (TIME) Network
Second Workshop

“Acute Lethality”



November 22 and 23, 2001
Ottawa, Ontario

- 82 participants - federal & provincial government; industry; consulting firms, non-governmental organizations, academia
- Acute Lethality - 4 TIME projects were theme for each session
- Panel & roundtable discussions identified upcoming “key issues”

Next Step

- Documents to be posted on Website
<http://envirolab.nrcan.gc.ca/time/time-e.htm>
- Guidance Document for Conducting Toxicity Reduction Evaluation (TRE) Investigations For Canadian Metal Mining Effluents.
- Guidance Document for Acute Lethality Testing of Metal Mining Effluents.
- Literature Review of Environmental Toxicity of Hg, Cd, Se and Sb in Metal Mining Effluents.
- Best Management Practices for Ammonia. Video, Training Package and BMP Guide

TIME in 2002

- Phase II approved
- EC, MAC and NRCan to support Phase II of of Program
 - Secretariat at CANMET
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<http://envirolab.nrcan.gc.ca/time/time-e.htm>