Editors: William Price, Bob Hart, Brenda Dixon, Gregg Stewart, Roger Berdusco, Bob Hamaguchi, and Carol Howell

Organized and Published by: The British Columbia Technical and Research Committee on Reclamation

Available from: Bitech Publishers Ltd., Richmond, B.C.

Convened at the Heritage Inn
Cranbrook, British Columbia
June 21 - 24, 2004
TABLE OF CONTENTS

THE BRITISH COLUMBIA TECHNICAL AND RESEARCH COMMITTEE ON RECLAMATION (TRCR)

REPORT OF THE TRCR AWARDS SUBCOMMITTEE

ACKNOWLEDGEMENTS

TECHNICAL PAPERS:

1. Post Closure Human Health and Ecological Risk Assessment at Teck Cominco’s Kimberley Operations, BC - Overview of Regulatory Process and Findings of the Problem Formulations
   C. Higgins, R. Wilson and N. Sandstrom - Morrow Environmental Consultants Inc.
   B. Dawson - Teck Cominco Metals Ltd.
   G. Mann, P. Allard and R. Baker - Azimuth Consulting Group Inc.

2. Strategy for Aquatic Ecological Risk Assessment at Teck Cominco’s Kimberley Operations, BC
   G. Mann, R. Baker and P. Allard - Azimuth Consulting Group Inc.
   C. Higgins - Morrow Environmental Consultants Inc.
   B. Dawson - Teck Cominco Metals Ltd.

   P. Allard, G. Mann and R. Baker - Azimuth Consulting Group Inc.
   C. Higgins - Morrow Environmental Consultants Inc.
   B. Dawson - Teck Cominco Metals Ltd.

4. Closure Spillway for the Plantsite Tailings Dam, Quintette Operating Corporation
   Kevin Sharman - Quintette Operating Corporation

5. Tailings Dams Design Criteria and Safety Evaluations at Closure
   M.B. Szymanski and M.P. Davies - AMEC Earth & Environmental

6. Closure of the Sullivan Mine Tailings Facility
   Rob Marsland and Rick Rodman - Klohn Crippen Consultants
   Bob Newcombe and Bruce Dawson - Teck Cominco Metals Ltd.

7. Waste Material Management at the Kemess South Mine to Control Environmental Impacts
   S. Wade Stogran, Harold Bent, Scott Davidson and Greg Tucker - Kemess Mines Ltd.
8. Progressive Reclamation at the Kemess South Mine “Doing What Comes Naturally”  
Scott Davidson and Wade Stogran - Kemess Mines Ltd.

9. Molybdenosis and Moose at Highland Valley Copper  
Carie-Ann Swank  
Wendy Gardner - The University College of the Cariboo

10. Reclamation of High-Elevation Wildlife Habitat at Elk Valley Coal’s Fording River and Greenhills Operations  
J. Straker, S. Woelk and C. Jones - C.E. Jones and Associates Ltd.  
R. Jones, R. Berdusco and B. O’Brien - Elk Valley Coal Corporation

11. A Review of the Reclamation Research Program at Teck Cominco’s Sullivan Mine at Kimberley, BC  
John Przeczek - Interior Forestation Co. Ltd.

12. Biological Removal of Arsenic in a Multi-Stage Engineered Wetlands Treating a Suite of Heavy Metals  
Al Mattes - Nature Works Remediation Corporation  
Bill Duncan - Teck Cominco Metals Ltd.  
Doug Gould - CANMET

13. Sustainable Development in the Mining Industry Through Communities - The Teck Cominco Experience  
K. Bittman and D. Horswill - Teck Cominco Limited

14. Mine Reclamation Guidelines for the Northwest Territories and Nunavut  
Rebecca Chouinard - Department of Indian Affairs and Northern Development

15. Conceptual Reclamation Planning and the Development of Results-Based Standards at Elk Valley Coal’s Elkview Operations  
John Przeczek - Interior Reforestation Co. Ltd.  
Dave Ryder - Elk Valley Coal Corporation

16. Decommissioning Planning for Saskatchewan’s Potash Mines  
Kenneth W. Reid - Windsong Environmental Consulting  
Mark N. Getzlaf - PotashCorp

17. A Decision Analysis Based Cost-Benefit Framework for Evaluating Decommissioning Options for Potash Mine Sites in Saskatchewan  
Gordon Sparks and Paul Christensen - VEMAX Management Inc.  
Suren Kulshreshtha - Dept. of Agricultural Economics, University of Saskatchewan  
Dick Neal - Dept. of Biology, University of Saskatchewan  
Lorne Cooper - IMC Potash
18. The New Environmental Assessment Process - A Sixteen-Month Status Report
   Raymond L. Crook - Environmental Assessment Office

19. Selenium from Coal Mining in the Elk River Valley
   Peter M. Chapman - EVS Environment Consultants

20. Accumulation of Selenium and Lack of Effects on American Dippers and
    Spotted Sandpipers
   Lee E. Harding - SciWrite Environmental Sciences Ltd.
   Mark Graham - Ministry of Water, Land and Air Protection
   Dale Paton - Anatum Ecological Consulting

21. Using Multispectral Remote Sensing to Monitor Reclamation at Highland Valley Copper
   Mark Richards - Highland Valley Copper
   Gary Borstad and Mar Martinez de Saavedra Alvarez - Borstad Associates

22. Use of Remote Sensing in Reclamation Assessment at Teck Cominco’s Bullmoose
    Mine Site
   J. Straker, S. Woelk, S. Boorman and J. Kuschminder - C.E. Jones and Associates Ltd.
   M. Blazecka - Forest Information Systems Ltd.
   K. Sharman - Teck Cominco Limited