

# Metal Mining and the Environment— A Bibliography

compiled by  
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WASHINGTON STATE DEPARTMENT OF  
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## INTRODUCTION

This bibliography is a compilation of materials relating to the reclamation of open-pit metal mines. References on coal, uranium, underground mines, and remediation of smelter damage are included if the information is applicable to open-pit metal mine reclamation. The materials included pertain to the abatement of acid drainage, treatment technologies for tailings and waste rock, physical containment methods, revegetation, and other reclamation issues for precious and base metal mines.

The work is divided into 13 broad subject groupings. Subject headings used by the Library of Congress, various databases, and other bibliographies were examined in the process of developing index terms. The index terms and subject categories used in this report were determined jointly by the compiler and David K. Norman, Washington's reclamation geologist.

The bibliography is organized so that a reference may fall under multiple subject groupings. For example, a work about preventing the formation of acid drainage in a tailings impoundment would be listed in both Section I, Acid drainage, and also in Section V, Tailings and surface impoundments. The index terms are appended to each citation.

Some, but not all, of the listed materials are held in the Washington Division of Geology and Earth Resources reference library and (or) in the Division's surface mining literature file in Olympia, Washington.

The bibliography is being sent to Laurentian University in Sudbury, Ontario, for inclusion in their Mining Environment Database. (See Appendix D.)

This bibliography is also available on an MS-DOS diskette in Word Perfect 5.1 or ASCII. The file is about 800 kb. To receive a diskette copy, please send us a formatted 3.5-in. or 5.25-in. diskette, with a \$1.00 check or money order made out to the Department of Natural Resources to cover postage and handling. We will load the diskette and return it to you, along with a list of index terms. ASCII file users may want to acquire a paper copy of the bibliography because text formatting is lost in the conversion to ASCII.

## TRI-STATE AGREEMENT ON MINING

The Tri-State Agreement on Mining, implemented in 1993 and funded by U.S. Environmental Protection Agency grant X 000798-01-0, has facilitated information sharing among mine regulators and reclamation professionals in Washington, Oregon, and Idaho. This bibliography is one of Washington's contributions to this cooperative effort.

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## I. ACID DRAINAGE

This section is divided into six subsections:

- A. Acid drainage – General Works
- B. Acid drainage – Chemistry and prediction
- C. Acid drainage – Control
- D. Acid drainage – Treatment – General works
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- F. Acid drainage – Treatment – Biological

### I. A. ACID DRAINAGE – GENERAL WORKS

Includes general works on acid mine drainage and acid rock drainage.

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- ACID DRAINAGE PREDICTION - MODELS/ ACID DRAINAGE - CONTROL

### I. C. ACID DRAINAGE - CONTROL

Includes works on acid drainage control, which is defined as control of acid generation and acid drainage migration. This section also includes works on drainage control. See also sections V and VI for works specific to tailings and waste rock.

Control of acid generation includes: (1) conditioning of tailings or waste rock to remove or exclude sulphide minerals; (2) covers and seals to exclude water; (3) covers and seals to exclude oxygen (including water cover); (4) waste segregation and blending to control pH; (5) base additives to control pH; and (6) bactericides to control bacterial oxidation of sulphide minerals.

Control of acid drainage migration includes: (1) covers and seals to exclude infiltration of precipitation; (2) controlled placement of waste to minimize infiltration; (3) diversion of surface water; and (4) interception of ground water.

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- Wildeman, T. R.; Filipek, L. H.; Gusek, James, 1994, Proof-of-principle studies for passive treatment of acid rock drainage and mill tailing solutions from a gold operation in Nevada. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06B-94, p. 387-394.  
NEVADA/ GOLD/ WETLANDS FOR WATER TREATMENT
- Wildeman, T. R.; Laudon, L. S., 1989, Use of wetlands for treatment of environmental problems in mining—Non-coal-mining applications. *In* Hammer, D. A., editor, Constructed wetlands for wastewater treatment—Municipal, industrial and agricultural: Lewis Publishers, p. 221-231.  
IDAHO SPRINGS, COLO./ BIG FIVE TUNNEL (COLORADO)/ ONTARIO/ MINNESOTA/ MONTANA/ WETLANDS FOR WATER TREATMENT
- Wildeman, T. R.; Laudon, L. S.; Howard, E. A., 1988, Construction of a wetland demonstration site for a metal-mine drainage [abstract]. *In* Mine drainage and surface mine reclamation—Proceedings of a conference: U.S. Bureau of Mines Information Circular 9183 [American Society for Surface Mining and Reclamation, Annual National Meeting, 5th, Proceedings], p. 401.  
IDAHO SPRINGS, COLO./ BIG FIVE TUNNEL (COLORADO)/ WETLANDS FOR WATER TREATMENT
- Witthar, S. R., 1993, Wetland water treatment systems. *In* Moshiri, G. A., editor, Constructed wetlands for water quality improvement: Lewis Publishers, p. 147-155.  
COAL/ WETLANDS FOR WATER TREATMENT
- Zamora, B. A.; Connolly, R. E., editors, 1993, The challenge of integrating diverse perspectives in reclamation; Proceedings of the 10th annual national meeting: American Society for Surface Mining and Reclamation, 2 v.  
REVEGETATION/ ACID DRAINAGE/ TAILINGS/ PLANNING/ LANDFORM RECLAMATION/ WETLANDS FOR WATER TREATMENT

## II. MINE WATERS AND WATER QUALITY

**NOTE:** This section does not include works on the treatment of mine drainage or mineral processing effluents. See section I, subsections D, E, and F for works on the treatment of acidic mine waters. See section III, subsection B for works on the treatment of mineral processing effluents. This section is divided into four subsections:

### A. HYDROGEOCHEMICAL MODELING

### B. WATER CHEMISTRY

### C. WATER QUALITY MANAGEMENT

### D. WATER QUALITY MONITORING

## II. A. HYDROGEOCHEMICAL MODELING

Includes works on interactions among surface water, ground water, and mine wastes, and models of water movement.

Alpers, C. N.; Nordstrom, D. K., 1990, Stoichiometry of mineral reactions from mass balance compositions of acid mine waters, Iron Mountain, California. *In* Gadsby, J. W.; Malick, J. A.; Day, S. J., editors, Acid mine drainage—Designing for closure: BiTech Publishers Ltd., p. 23-33.

IRON MOUNTAIN MINE (CALIFORNIA)/  
SHASTA CO., CALIF./ACID DRAINAGE/  
GROUND WATER MOVEMENT - MODELS

Barry, D. A., 1993, Time dependence of solute dispersion in aquifers. *In* Fell, Robin; Phillips, Tony; Gerrard, Charles, editors, Geotechnical management of waste and contamination: A. A. Balkema, p. 329-334.

GROUND WATER MOVEMENT - MODELS

Best, R. J.; Booker, J. R.; Mackie, C., 1993, Analysis of contaminant transport. *In* Fell, Robin; Phillips, Tony; Gerrard, Charles, editors, Geotechnical management of waste and contamination: A. A. Balkema, p. 39-58.

CONTAMINANT MIXING AND TRANSPORT/  
GROUND WATER

Bird, D. A.; Lyons, W. B.; Miller, G. C., 1994, Development of a reaction path approach to modeling post-mining pit water geochemistry [abstract]. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06B-94, p. 403.

WATER QUALITY/ DRAINAGE CONTROL/  
GROUND WATER MOVEMENT - MODELS

Bird, D. A.; Mahoney, J. J., 1994, Estimating post-mining pit lake geochemistry utilizing geochemical and numerical modeling: Society for Mining, Metallurgy, and Exploration, Inc. Preprint 94-241, 5 p.

BUTTE, MONT./ MONTANA/ CORTEZ MINE  
(NEVADA)/ ACID DRAINAGE - CONTROL/  
WATER - CHEMISTRY/ GROUND WATER  
MOVEMENT - MODELS

Booty, W. G.; Lam, D. C. L.; Wong, I.; Bowen, G. S.; Swayne, D. A., 1991, Water quality modelling system for acid mine drainage. *In* International conference on the abatement of acidic drainage, 2nd, Proceedings: Canada Mine Environment Neutral Drainage (MEND) Report 5.6.1, v. 2, p. 427-447.

GROUND WATER MOVEMENT - MODELS/  
ACID DRAINAGE PREDICTION - MODELS

Bowen, G. S.; Lam, D. C. L.; Wong, I.; Swayne, D. A.; Storey, J., 1991, A micro-computer-based system for data management and impact assessment of mine effluents. *In* International conference on the abatement of acidic drainage, 2nd, Proceedings: Canada Mine Environment Neutral Drainage (MEND) Report 5.6.1, v. 2, p. 271-289.

ACID DRAINAGE PREDICTION - MODELS/  
GROUND WATER MOVEMENT - MODELS

Bridwell, R. J.; Travis, B. J.; Alief, M. H., 1994, Migration control and remediation of acid mine drainage, part 1—Ground water remediation: Society for Mining, Metallurgy, and Exploration, Inc. Preprint 94-130, 10 p.

ACID DRAINAGE - CONTROL/ GROUND  
WATER MOVEMENT - MODELS

Brown, B. S.; Burden, J. J., 1992, Seepage from drained tailings deposits. *In* Randol Gold Forum Vancouver '92—Integrating mining, metallurgical and environmental innovations for success in demanding times: Randol International Ltd., p. 59-64.

JAMESTOWN MINE (CALIFORNIA)/ HAY-  
DEN HILL MINE (CALIFORNIA)/ DRAINAGE  
CONTROL/ TAILINGS IMPOUNDMENTS/  
GROUND WATER MOVEMENT - MODELS

Bütow, E.; Holzbecher, E.; Koss, V., 1990, Approach to model transport of contaminants including geochemical processes—Dependence of sorption coefficients on geochemical surrounding. *In* Kovar, Karel, editor, ModelCARE 90—Calibration and reliability in groundwater: International Association of Hydrological Sciences IAHS Publication 195, p. 221-229.

GROUND WATER MOVEMENT - MODELS/  
WATER QUALITY MANAGEMENT

Chapman, John; Hockley, Daryl; Robertson, A. MacG.; Broughton, L. M., 1993, Rock pile water quality modelling—The Q-ROCK mathematical model [reprint of a paper]: Environmental Management for Mining Conference (Saskatoon, Sask.) 18 p.

ACID DRAINAGE PREDICTION - MODELS/  
WASTE ROCK - MODELS/ WATER QUALITY  
MANAGEMENT

Dudgeon, C. R., 1985, Unconfined non-Darcy flow near open-pit mines. *In* Fernández-Rubio, R., editor, Mine water—International Mine Water Congress, 2nd, Proceedings: International Mine Water Association, v. 1, p. 443-454.

GROUND WATER MOVEMENT - MODELS/  
DRAINAGE CONTROL

Elorza Tenreiro, J.; Ferragut Canals, L., 1985, A finite element approximation of nonlinear flow in porous media. *In* Fernández-Rubio, R., editor, Mine water—International Mine Water Congress, 2nd, Proceedings: International Mine Water Association, v. 1, p. 467-477.

GROUND WATER MOVEMENT - MODELS/  
DRAINAGE CONTROL

Eriksson, N.; Destouni, G., 1994, Modeling field-scale transport of weathering products in mining waste rock dumps. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06A-94, p. 50-59.

WASTE ROCK DUMPS/ GROUND WATER  
MOVEMENT - MODELS/ CONTAMINANT  
MIXING AND TRANSPORT

Halepaska, J. C., 1979, Ground water design parameters for mining and milling. *In* Argall, G. O., Jr.; Brawner, C. O., editors, Mine drainage; Proceedings of the first international mine drainage symposium: Miller Freeman Publications, p. 98-104.

GROUND WATER MOVEMENT - MODELS

King, A. R.; Hynes, Tom, 1994, Applications of geophysical methods for monitoring acid mine drainage. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06A-94, p. 317-326.

ACID DRAINAGE/ WATER QUALITY MONI-  
TORING/ GROUND WATER

King, A. R.; Sartorelli, A. N., 1991, Mapping acidified groundwater using surface geophysical methods. *In* International conference on the abatement of acidic drainage, 2nd, Proceedings: Canada Mine Environment Neutral Drainage (MEND) Report 5.6.1, v. 3, p. 451-487.

ACID DRAINAGE PREDICTION - MODELS/  
GROUND WATER

Lam, D. C. L.; Bowen, G. S.; Kerby, J. P.; Swayne, D. A., 1991, A water quality advisor for ranking mine effluent and toxicity data. *In* International conference on the abatement of acidic drainage, 2nd, Proceedings: Canada Mine Environment Neutral Drainage (MEND) Report 5.6.1, v. 2, p. 391-408.

GROUND WATER MOVEMENT - MODELS/  
WATER QUALITY MONITORING

- Levens, R. L., 1990, Analysis of the hydrogeologic role of geologic structures with application to acid mine drainage abatement: University of Idaho Master of Science thesis, 193 p.  
BUNKER HILL MINE (IDAHO)/ LEAD/ ZINC/ ACID DRAINAGE/ GROUND WATER MOVEMENT - MODELS
- Loxham, M., 1988, The predictive assessment of the migration of leachate in the subsoils surrounding mine tailing and dredging spoil sites. *In* Salomons, Wim; Förstner, Ulrich, editors, Environmental management of solid waste—Dredged material and mine tailings: Springer-Verlag, p. 3-23.  
ACID DRAINAGE PREDICTION - MODELS/ GROUND WATER MOVEMENT - MODELS/ CONTAMINANT MIXING AND TRANSPORT
- Molnar, Sandor; Szidarovszky, Ferenc, 1985, A game theoretical model for the examination of the mutual effect of mining and environmental control. *In* Fernández-Rubio, R., editor, Mine water—International Mine Water Congress, 2nd, Proceedings: International Mine Water Association, v. 1, p. 523-530.  
GROUND WATER MOVEMENT - MODELS/ DRAINAGE CONTROL
- Morin, K. A., 1994, Prediction of water chemistry in open pits during operation and after closure. *In* Mine reclamation—"Compliance and environmental protection": British Columbia Mine Reclamation Symposium, Annual Meeting, 18th, Proceedings, p. 72-86.  
WATER - CHEMISTRY/ ACID DRAINAGE PREDICTION - MODELS/ GROUND WATER MOVEMENT - MODELS
- Morin, K. A.; Hutt, N. M., 1994, An empirical technique for predicting the chemistry of water seeping from mine-rock piles. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06A-94, p. 12-19.  
ACID DRAINAGE PREDICTION - MODELS/ GROUND WATER MOVEMENT - MODELS
- Ralston, D. R.; Morilla, A. G., 1974, Groundwater movement through an abandoned tailings pile. *In* Hadley, R. F.; Snow, D. T., editors, Water resources problems related to mining: American Water Resources Association, p. 174-183.  
COEUR D'ALENE MINING DISTRICT (IDAHO)/ ACID DRAINAGE/ LEAD/ ZINC/ SILVER/ ANTIMONY/ TAILINGS/ GROUND WATER
- Runnells, D. D.; Shepherd, T. A.; Angino, E. E., 1992, Metals in water—Determining natural background concentrations in mineralized areas: Environmental Science and Technology, v. 26, no. 12, p. 2316-2323.  
GROUND WATER MOVEMENT - MODELS/ WATER - CHEMISTRY - NATURAL WATER CHEMISTRY
- Rymer, T. E., II; Renton, J. J.; Ziemkiewicz, P. F., 1991, Assessment of disturbed hydrological systems using a computer simulation model. *In* International conference on the abatement of acidic drainage, 2nd, Proceedings: Canada Mine Environment Neutral Drainage (MEND) Report 5.6.1, v. 3, p. 27-41.  
ACID DRAINAGE PREDICTION - MODELS/ GROUND WATER MOVEMENT - MODELS
- St-Arnaud, L. C.; Aubé, B. C.; Wiseman, M. E.; Aiken, S. R., 1994, Mitigation of acid mine drainage by the porous envelope effect. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06B-94, p. 87-95.  
FALCONBRIDGE NICKEL MINES (ONTARIO)/ ACID DRAINAGE - CONTROL/ GROUND WATER MOVEMENT - MODELS/ TAILINGS
- Schafer and Associates, 1994, Geochemical modeling of pit lake water quality for the Crown Jewel project; Draft final: Schafer and Associates (Bozeman, Mont.) [for] TerraMatrix (Steamboat Springs, Colo.), 1 v.  
OKANOGAN CO., WASH./ CROWN JEWEL (WASHINGTON)/ GOLD/ ACID DRAINAGE PREDICTION - MODELS/ GROUND WATER MOVEMENT - MODELS/ WATER QUALITY/ DRAINAGE CONTROL
- Singh, R. N.; Ngah, S. A.; Atkins, A. S., 1985, Applicability of current groundwater theories for the prediction of water inflows to surface mining excavations. *In* Fernández-Rubio, R., editor, Mine water—International Mine Water Congress, 2nd, Proceedings: International Mine Water Association, v. 1, p. 553-569.  
GROUND WATER MOVEMENT - MODELS/ DRAINAGE CONTROL
- Slayback, R. G., 1979, Hydrogeologic investigations for mine dewatering. *In* Argall, G. O., Jr.; Brawner, C. O., editors, Mine drainage; Proceedings of the first international mine drainage symposium: Miller Freeman Publications, p. 105-122.  
ACID DRAINAGE/ GROUND WATER MOVEMENT - MODELS
- Smith, K. S.; Ficklin, W. H.; Plumlee, G. S.; Meier, A. L., 1992, Metal and arsenic partitioning between water and suspended sediment at mine-drainage sites in diverse geologic settings. *In* Kharaka, Y. K.; Maest, A. S., editors, Water-rock interaction; Proceedings of the 7th international symposium, Volume 1—Low temperature environments: A. A. Balkema, p. 443-447.  
COLORADO/ GROUND WATER MOVEMENT - MODELS/ EROSION AND SEDIMENT CONTROL/ ACID DRAINAGE PREDICTION - MODELS
- Steele, T. D.; Saunders, G. P.; Mills, R. A., 1987, A streamflow water-quality node-streamreach model for assessing mining-related impacts. *In* Dworsky, R. F., editor, Proceedings of the symposium on water resources related to mining and energy—Preparing for the future: American Water Resources Association, p. 309-324.  
GROUND WATER MOVEMENT - MODELS/ ACID DRAINAGE PREDICTION - MODELS
- Stone, W. J., 1985, Assessing impact of surface mining on recharge. *In* Fernández-Rubio, R., editor, Mine water—International Mine Water Congress, 2nd, Proceedings: International Mine Water Association, v. 2, p. 829-840.  
COAL/ GROUND WATER MOVEMENT - MODELS/ DRAINAGE CONTROL
- Straskraba, V.; Placet, J.; Holubec, M., 1985, Application of computer modeling for the design of open pit mine dewatering. *In* Fernández-Rubio, R., editor, Mine water—International Mine Water Congress, 2nd, Proceedings: International Mine Water Association, v. 1, p. 579-597.  
DIKULWE-MASHAMBA MINES (ZAIRE)/ COPPER/ COBALT/ DRAINAGE CONTROL/ GROUND WATER MOVEMENT - MODELS
- Yanful, E. K.; St-Arnaud, L. C., 1991, The Waite Amulet hydrogeochemical evaluation. *In* International conference on the abatement of acidic drainage, 2nd, Proceedings: Canada Mine Environment Neutral Drainage (MEND) Report 5.6.1, v. 1, p. 91-114.  
WAITE AMULET (QUEBEC)/ TAILINGS - CHEMISTRY/ ACID DRAINAGE - CHEMISTRY/ GROUND WATER MOVEMENT - MODELS
- Zuhuang, Cai; Huixin, Shi, 1985, A method for water resources evaluation for prediction of mine water inflows and for comprehensive utilization of mine water. *In* Fernández-Rubio, R., editor, Mine water—International Mine Water Congress, 2nd, Proceedings: International Mine Water Association, v. 1, p. 599-603.  
DRAINAGE CONTROL/ GROUND WATER MOVEMENT - MODELS

## II. B. WATER CHEMISTRY

Includes works on water chemistry and background levels of chemicals in water.

- Benham, J. R., 1993, Water sampling and analytical results from the Sulphur Bank Mercury mine Superfund site, Lake County, California. *In* Zamora, B. A.; Connolly, R. E., editors, The challenge of integrating diverse perspectives in reclamation: American Society for Surface Mining and Reclamation, Annual National Meeting, 10th, Proceedings, v. 1, p. 165-174.  
LAKE CO., CALIF./ SULPHUR BANK MERCURY MINE (CALIFORNIA)/ CLEAR LAKE, CALIF./ MERCURY/ WATER - CHEMISTRY - NATURAL WATER CHEMISTRY/ WATER QUALITY MONITORING
- Bird, D. A.; Mahoney, J. J., 1994, Estimating post-mining pit lake geochemistry utilizing geochemical and numerical modeling: Society for Mining, Metallurgy, and Exploration, Inc. Preprint 94-241, 5 p.  
BUTTE, MONT./ MONTANA/ CORTEZ MINE (NEVADA)/ ACID DRAINAGE - CONTROL/ WATER - CHEMISTRY/ GROUND WATER MOVEMENT - MODELS

- Bourg, A. C. M., 1988, Metals in aquatic and terrestrial systems—Sorption, speciation, and mobilization. *In* Salomons, Wim; Förstner, Ulrich, editors, *Chemistry and biology of solid waste—Dredged material and mine tailings*: Springer-Verlag, p. 3-32.
- TAILINGS - BIOCHEMISTRY/ WATER - CHEMISTRY/ SOILS - CHEMISTRY
- Buffle, Jacques; De Vitre, R. R., editors, 1994, *Chemical and biological regulation of aquatic systems*: Lewis Publishers, 385 p.
- WATER - CHEMISTRY/ WATER QUALITY MANAGEMENT
- Caruccio, F. T., 1973, Characterization of strip-mine drainage by pyrite grain size and chemical quality of existing groundwater. *In* Hutnik, R. J.; Davis, Grant, editors, *Ecology and reclamation of devastated land*: Gordon and Breach, v. 1, Paper II-5, p. 193-226.
- PENNSYLVANIA/ COAL/ ACID DRAINAGE/ WATER - CHEMISTRY
- Dumaresq, C. G.; Michel, F. A.; Subramanian, K. S., 1994, The alteration of arsenic-bearing tailings, and the release of contaminants to surface waters in Cobalt, Ontario [abstract]. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06B-94, p. 410.
- COBALT, ONT./ ONTARIO/ SILVER/ TAILINGS - CHEMISTRY/ WATER - CHEMISTRY
- Eriksson, C. L.; Deutsch, W. J.; Garrett, Marie, 1990, Evaluation of cyanide detections in ground water at the Cannon mine, Wenatchee, WA [abstract]: Northwest Mining Association, Annual Convention, 96th, Abstract Booklet, p. 27.
- CANNON MINE (WASHINGTON)/ CHELAN CO., WASH./ WATER QUALITY MONITORING/ WATER - CHEMISTRY - NATURAL WATER CHEMISTRY/ CYANIDE
- Ficklin, W. H., 1990, Geochemistry of arsenic-bearing gold mill tailings in the Cheyenne River system, South Dakota. *In* Billings symposium on disturbed land rehabilitation, 5th, Proceedings: Montana State University Reclamation Research Unit Publication 9003, v. 2, p. 35-46.
- SOUTH DAKOTA/ BELLE FOURCHE RIVER, S.D./ WHITEWOOD CREEK, S.D./ CHEYENNE RIVER, S.D./ GOLD/ TAILINGS - CHEMISTRY/ WATER - CHEMISTRY
- Ficklin, W. H.; Plumlee, G. S.; Smith, K. S.; McHugh, J. B., 1992, Geochemical classification of mine drainages and natural drainages in mineralized areas. *In* Kharaka, Y. K.; Maest, A. S., editors, *Water-rock interaction*; Proceedings of the 7th international symposium, Volume 1—Low temperature environments: A. A. Balkema, p. 381-384.
- COLORADO/ ACID DRAINAGE - CHEMISTRY/ WATER - CHEMISTRY
- Ficklin, W. H.; Smith, K. S.; Plumlee, G. S., 1994, Geological and geochemical controls on the composition of waters draining from diverse mineral deposits [abstract]. *In* International land reclamation and mine drainage conference and International conference on the abatement of acidic drainage, 3rd, Proceedings: U.S. Bureau of Mines Special Publication SP 06B-94, p. 412.
- COLORADO/ WATER - CHEMISTRY/ ACID DRAINAGE PREDICTION
- Graf, W. L.; Clark, S. L.; Kammerer, M. T.; Lehman, T.; Randall, K.; Schroeder, R., 1991, Geomorphology of heavy metals in the sediments of Queen Creek, Arizona, USA: *Catena*, v. 18, no. 6, p. 567-582.
- QUEEN CREEK, ARIZ./ ARIZONA/ TAILINGS - CHEMISTRY/ WATER - CHEMISTRY - NATURAL WATER CHEMISTRY
- Hakansson, K.; Karlsson, Stefan; Allard, B., 1989, Effects of pH on the accumulation and redistribution of metals in a polluted stream bed sediment: *The Science of the Total Environment*, v. 87-88, p. 43-57.
- BERSBO, SWEDEN/ WATER - CHEMISTRY - NATURAL WATER CHEMISTRY/ ACID DRAINAGE/ WATER QUALITY MONITORING
- Hem, J. D., 1959, Study and interpretation of the chemical characteristics of natural water: U.S. Geological Survey Water-Supply Paper 1473, 269 p.
- WATER - CHEMISTRY - NATURAL WATER CHEMISTRY
- Jones, C. E., 1994, Molybdenum in the environment and implications to mine decommissioning in British Columbia. *In* Mine reclamation—"Compliance and environmental protection": British Columbia Mine Reclamation Symposium, Annual Meeting, 18th, Proceedings, p. 144-157.
- BRITISH COLUMBIA/ MOLYBDENUM/ WILDLIFE AND MINING/ SOILS - CHEMISTRY/ WATER - CHEMISTRY
- Lambeth, R. H.; Stewart, B. M.; Williams, B. C., 1991, An investigation of hydrogeochemical mechanisms in an abandoned sulfide tailings impoundment and underlying aquifer. *In* International conference on the abatement of acidic drainage, 2nd, Proceedings: Canada Mine Environment Neutral Drainage (MEND) Report 5.6.1, v. 3, p. 43-59.
- OKANOGAN CO., WASH./ COPPER/ GOLD/ TAILINGS - CHEMISTRY/ WATER - CHEMISTRY/ ACID DRAINAGE
- Mitchell, P. B., 1990, Reclaiming derelict metalliferous mining land—With particular reference to Cornwall, UK: *Land and Minerals Surveying*, v. 8, no. 1, p. 7-17.
- CORNWALL, U. K./ UNITED KINGDOM/ WATER - CHEMISTRY/ SOILS - CHEMISTRY/ WASTE ROCK/ TAILINGS/ ABANDONED MINE LANDS/ REVEGETATION
- Morin, K. A., 1994, Prediction of water chemistry in open pits during operation and after closure. *In* Mine reclamation—"Compliance and environmental protection": British Columbia Mine Reclamation Symposium, Annual Meeting, 18th, Proceedings, p. 72-86.
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- Morin, K. A.; Hutt, N. M., 1993, The use of routine monitoring data for assessment and prediction of water chemistry. *In* Mine reclamation—"Building confidence": British Columbia Mine Reclamation Symposium, Annual Meeting, 17th, Proceedings, p. 191-201.
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- BELL MINE (BRITISH COLUMBIA)/ ACID DRAINAGE PREDICTION/ WATER QUALITY MONITORING
- Nimick, D. A.; Moore, J. N., 1991, Prediction of water-soluble metal concentrations in fluviually deposited tailings sediments, upper Clark Fork valley, Montana, U.S.A.: *Applied Geochemistry*, v. 6, no. 6, p. 635-646.
- CLARK FORK, MONT./ MONTANA/ CONTAMINANT MIXING AND TRANSPORT/ TAILINGS/ WATER - CHEMISTRY
- Rabbi, Fazli, 1992, Trace element geochemistry of polluted stream sediments and waters in Hunters and Cleveland areas of Stevens County, Washington: Eastern Washington University Master of Science thesis, 105 p.
- STEVENS CO., WASH./ CLEVELAND MINE (WASHINGTON)/ HUNTER CREEK, WASH./ ACID DRAINAGE/ WATER - CHEMISTRY
- Rampe, J. J.; Runnells, D. D., 1989, Contamination of water and sediment in a desert stream by metals from an abandoned gold mine and mill, Eureka District, Arizona, U.S.A.: *Applied Geochemistry*, v. 4, no. 5, p. 445-454.
- HILLSIDE MINE (ARIZONA)/ BOULDER CREEK, ARIZ./ ABANDONED MINE LANDS/ WATER - CHEMISTRY - NATURAL WATER CHEMISTRY/ ACID DRAINAGE
- Robertson, Emily, 1990, Monitoring acid mine drainage: British Columbia Acid Mine Drainage Task Force, 66 p.
- ACID DRAINAGE/ WATER QUALITY MONITORING/ WATER - CHEMISTRY
- Routh, Joyanto; Ikramuddin, Mohammed, 1994, Impact of lead-zinc mining on distribution of major and trace elements in water at Van Stone mine, Stevens County, Washington [abstract]: *Geological Society of America Abstracts with Programs*, v. 26, no. 1, p. 26.
- STEVENS CO., WASH./ VAN STONE MINE (WASHINGTON)/ LEAD/ ZINC/ WATER - CHEMISTRY/ WATER QUALITY MONITORING
- Runnells, D. D.; Shepherd, T. A.; Angino, E. E., 1992, Metals in water—Determining natural background concentrations in mineralized areas: *Environmental Science and Technology*, v. 26, no. 12, p. 2316-2323.
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- Salomons, Wim; Förstner, Ulrich, editors, 1988, *Chemistry and biology of solid waste—Dredged material and mine tailings*: Springer-Verlag, 305 p.
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- Schafer, W. M.; Goering, J. D.; Grady, T. R.; Spotts, Edward; Neuman, D. R., 1993, Modeling the fate and transport of metals in surface water at the Silver Bow Creek CERCLA site. *In* Billings symposium—Planning, rehabilitation and treatment of disturbed lands, 6th, Proceedings: Montana State University Reclamation Research Unit Publication 9301, v. 2, p. 17-31.
- SILVER BOW CREEK, MONT./ MONTANA/ WATER - CHEMISTRY/ EROSION AND SEDIMENT CONTROL/ REVEGETATION
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- Silver, Marvin, 1989, Biology and chemistry of generation, prevention and abatement of acid mine drainage. *In* Hammer, D. A., editor, *Constructed wetlands for wastewater treatments—Municipal, industrial and agricultural*: Lewis Publishers, p. 753-760.
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### III. ORE TREATMENTS —CYANIDE, LEACHING, METALLURGY

This section is divided into three subsections:

#### A. CYANIDE — GENERAL WORKS

#### B. HEAP LEACHING/ VAT LEACHING/ TANK LEACHING AND CYANIDE — TREATMENT

#### C. NON-CYANIDE METALLURGICAL PROCESSES

#### III. A. CYANIDE — GENERAL WORKS

Includes works on cyanide chemistry, risk analysis, and other general works.

- Carson, P. J.; Thomas, R. J., 1991, Government guidelines for gold processors using cyanide. *In* World gold '91, April 1991, Cairns, Queensland: Australasian Institute of Mining and Metallurgy (Parkville, Victoria), p. 423-426.  
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- Foster, Fess, 1982, Chemistry, construction, operation, and environmental concerns of heap-leach cyanidation: University of Montana Environmental Studies unpublished paper, 65 p.  
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- Garn, H. S.; Thomson, B. M., 1985, Analysis of cyanide data on the Red River, New Mexico. *In* van Zyl, Dirk, editor, Cyanide and the environment; Proceedings of a conference, Tucson, Arizona, December 11-14, 1984: Colorado State University Geotechnical Engineering Program, v. 1, p. 161-174.  
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- Heming, T. A.; Thurston, R. V., 1985, Physiological and toxic effects of cyanides to fishes—A review and recent advances. *In* van Zyl, Dirk, editor, Cyanide and the environment; Proceedings of a conference, Tucson, Arizona, December 11-14, 1984: Colorado State University Geotechnical Engineering Program, v. 1, p. 85-104.  
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- Mehling, P.; Broughton, L. M., 1989, Fate of cyanide in abandoned tailings ponds. *In* Chalkley, M. E.; Conard, B. R.; Lakshmanan, V. I.; Wheeland, K. G., editors, Tailings and effluent management; Proceedings of the International Symposium: Pergamon Press, p. 269-279.  
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CYANIDE HEAP LEACHING/ CYANIDE - CHEMISTRY/ CYANIDE - TREATMENT
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- ### III. B. HEAP LEACHING/ VAT LEACHING/ TANK LEACHING AND CYANIDE TREATMENTS
- Includes works on various treatment methods, including: (1) natural degradation and biological processes; (2) alkaline chlorination; (3) AVR [acidification-volatilization-recovery] process; (4) hydrogen peroxide; (5) sulphur dioxide/air process; (6) ion exchange; and (7) oxidation. Includes works on cyanide heap leaching, cyanide vat leaching, and tank cyanidation, as well as general works on leaching.
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- Altringer, P. B.; Lien, R. H.; Gardner, K. R., 1991, Biological and chemical selenium removal from precious metals solutions. *In* Lootens, D. J.; Greenslade, W. M.; Barker, J. M., editors, Environmental management for the 1990's; Proceedings of the symposium: Society for Mining, Metallurgy, and Exploration, Inc., p. 135-142.  
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- ### III. C. NON-CYANIDE METALLURGICAL PROCESSES
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## V. TAILINGS AND SURFACE IMPOUNDMENTS

This section is divided into four subsections:

### A. TAILINGS – GENERAL WORKS

### B. TAILINGS IMPOUNDMENTS

### C. TAILINGS – CHEMISTRY, BIOCHEMISTRY, BIOGEOCHEMISTRY

### D. UNDERWATER TAILINGS DISPOSAL

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- Williams, R. E., 1975, Waste production and disposal in mining, milling, and metallurgical industries: Miller Freeman Publications, 489 p.
- ACID DRAINAGE/ TAILINGS/ REVEGETATION/ WASTE ROCK
- Wong, J. Y.; Jones, C. E.; van Dyk, R. P., 1993, Use of shotcrete to control acid mine drainage in waste rock piles. *In* Mine reclamation—"Building confidence": British Columbia Mine Reclamation Symposium, Annual Meeting, 17th, Proceedings, p. 65-74.
- MYRA FALLS (BRITISH COLUMBIA)/ WASTE ROCK DUMPS/ ACID DRAINAGE - CONTROL

## VII. EROSION CONTROL AND CONTAMINANT TRANSPORT

This section includes works on erosion and sediment control, and contaminant mixing and transport, including contaminant transport in soils and metal concentrations in sediments. For materials dealing with the transport of pollutants in water and water quality, see section II. For works on topsoil and soils for revegetation, see section VIII.

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- Best, R. J.; Booker, J. R.; Mackie, C., 1993, Analysis of contaminant transport. *In* Fell, Robin; Phillips, Tony; Gerrard, Charles, editors, Geotechnical management of waste and contamination: A. A. Balkema, p. 39-58.
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## VIII. REVEGETATION AND PLANT-SOIL RELATIONSHIPS

This section is divided into two subsections:

### A. REVEGETATION

### B. SOILS

#### VIII. A. REVEGETATION

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## VIII. B. SOILS

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**APPENDIX A: SELECTED GOVERNMENT AGENCIES AND RESEARCH ORGANIZATIONS**

U.S. Geological Survey Office of Mineral Resources  
Center for Environmental Geochemistry and Geophysics (CEGG)  
Box 25046, MS 973  
Denver Federal Center, Bldg. 20  
Denver, CO 80225-0046  
(303) 236-1903 or 236-3301  
fax (303) 236-3200

U.S. Environmental Protection Agency  
Center for Environmental Research Information (CERI)  
26 West Martin Luther King Drive  
Cincinnati, OH 45268  
(513) 569-7562  
fax (513) 569-7566

Energy, Mines and Resources Canada  
Canada Centre for Mineral and Energy Technology (CANMET)  
580 Booth St.  
Ottawa, ON K1A 0E4 Canada  
(613) 992-8837  
fax (613) 952-2587

Wastewater Technology Centre  
867 Lakeshore Road  
P.O. Box 5068  
Burlington, ON L7R 4L7 Canada  
(416) 336-4855  
fax (416) 336-4765

Noranda Technology Centre  
240 Hymus Road  
Point Claire, PQ H9R 1G5 Canada  
(514) 630-9300  
fax (514) 630-9379

Alberta Environmental Protection  
Land Conservation and Reclamation Division  
Reclamation Research Technical Advisory Committee  
3rd Fl., 9820 106 St.  
Edmonton, AB T5K 2J6 Canada  
(403) 422-2636  
fax (403) 422-0080

Ontario Ministry of Northern Development and Mines  
Mines and Minerals Division  
159 Cedar Street  
Sudbury, ON P3E 6A5 Canada  
(705) 670-7130 [Library]

U.S. Office of Surface Mining Reclamation and Enforcement  
Western Support Center  
1999 Broadway, Suite 3320  
Denver, CO 80202-5733  
(303) 672-5500  
fax (303) 672-5622

U.S. Forest Service Intermountain Research Station  
Federal Office Building  
324 25th St.  
Ogden, UT 84401  
(208) 882-3557  
fax (208) 883-2318

University of Arizona Office of Arid Lands Studies  
845 N. Park Avenue  
Tucson, AZ 85719  
(602) 621-1955 or 621-7897  
fax (602) 621-3816

[U.S.] Mine Waste Technology Pilot Program (MWTPP) Contacts:  
Jon Hermann  
U.S. Environmental Protection Agency  
Office of Research and Development  
Risk Reduction Engineering Laboratory  
26 W. Martin Luther King Dr.  
Cincinnati, OH 45268  
(513) 569-7839  
fax (513) 569-7787

Mel Shupe  
Office of Technology Development  
Trevion II/EM-54  
U.S. Department of Energy  
Washington, D.C. 20545  
(301) 903-7942  
fax (301) 903-7457

Jean Bishop, Reference Librarian  
Montana College of Mineral Science and Technology  
1300 West Park Street  
Butte, MT 59701-8997  
(406) 496-4282  
fax (406) 496-4133

**APPENDIX B: SELECTED PROFESSIONAL ORGANIZATIONS**

American Mining Congress  
1920 N Street NW, Suite 300  
Washington, DC 20036-1662  
(202) 861-2800  
fax: (202) 861-7535

Society for Mining, Metallurgy, and Exploration, Inc.  
8307 Shaffer Parkway  
Box 625002  
Littleton, CO 80127-5002  
(303) 973-9550  
fax (303) 973-3845

TMS: The Minerals, Metals and Materials Society  
420 Commonwealth Drive  
Warrendale, PA 15086-7514  
(412) 776-9000  
fax (412) 776-3770

International Erosion Control Association  
P.O. Box 774904  
Steamboat Springs, CO 80477-4904  
(303) 879-3010  
fax (303) 879-8563

Society for Ecological Restoration (SER)  
1207 Seminole Hwy.  
Madison, WI 537111  
phone/fax (608) 262-9547

American Society for Surface Mining and Reclamation  
21 Grandview Drive  
Princeton, WV 24740  
phone/fax (304) 425-8332

Northwest Mining Association  
10 N. Post, Suite 414  
Spokane, WA 99201-0772  
(509) 624-1158  
fax (509) 623-1241

Canadian Land Reclamation Association  
Box 682  
Guelph, ON N1H 6L3 Canada  
(905) 689-8134

Mining Association of British Columbia  
P.O. Box 12540  
860, 1066 W. Hastings Street  
Vancouver, BC V6E 3X1 Canada  
phone/fax (604) 681-5305

The Australasian Institute of Mining and Metallurgy  
Clunies Ross House  
191 Royal Parade  
P.O. Box 122  
Parkville VIC 3052 Australia  
(03) 347-3166  
fax (03) 347-8525

Australian Mining Industry Council  
P.O. Box 363  
Dickson, ACT 2602 Australia  
062-49-8955  
fax 062-47-4985

Greening Australia (SA) Inc./  
State Tree Centre  
GPO Box 9868  
Adelaide, SA 5001 Australia  
(08) 207-8757



## APPENDIX C: SELECTED SOURCES FOR PUBLICATIONS

U.S. Department of Commerce  
National Technical Information Service  
(NTIS)  
5258 Port Royal Road  
Springfield, VA 22161  
(703) 487-4650 or 1-(800)-553-NTIS  
fax (703) 321-8547  
NOTE: distribute U.S. Office of Surface Mining Reclamation and Enforcement, U.S. Bureau of Mines, and U.S. Environmental Protection Agency reports

U.S. Environmental Protection Agency  
EPA Publications and Information Center  
(EPIC)  
26 West Martin Luther King Drive  
Cincinnati, OH 45268  
(513) 569-7980  
fax (513) 569-7186

U.S. Bureau of Mines  
Publication Distribution  
Cochrans Mill Rd., P.O. Box 18070  
Pittsburgh, PA 15236  
(412) 892-4338  
fax (412) 892-6877

Canada Centre for Mineral and Energy  
Technology (CANMET)  
Library and Documentation Services Division  
562 Booth Street  
Ottawa, ON K1A 0G1 Canada  
(613) 996-9758  
fax (613) 952-2587  
NOTE: distribute Mine Environment Neutral Drainage (MEND) reports

Montana State University Reclamation  
Research Unit  
106 Linfield Hall  
Montana State University  
Bozeman, MT 59717-0290  
(406) 994-4821  
fax (406) 994-4876  
NOTE: distribute Reclamation Research Unit publications

Colorado State University  
Department of Civil Engineering  
Fort Collins, CO 80523  
(303) 491-7425  
fax (303) 491-7727  
NOTE: distribute geotechnical engineering publications

Environment Canada  
Environmental Protection Directorate  
Western/Northern Regional Office  
Twin Atria II, 4999 - 98 Ave., 2nd Fl.  
Edmonton, AB T6B 2X3 Canada  
(403) 468-8075  
fax (403) 495-2615

Pacific/Yukon Regional Office  
224 West Esplanade  
North Vancouver, BC V7M 3H7 Canada  
(604) 666-0064  
fax (604) 666-6281

Queen's Printer Bookstore  
11510 Kingsway  
Edmonton, AB T5G 2Y5 Canada  
(403) 427-4952  
fax (403) 452-0668  
NOTE: distribute Alberta Reclamation Research Technical Advisory Committee (RRTAC) Reports

Alberta Environmental Protection  
Library Services Branch/Publications Centre  
14th Fl., 9820 - 106 Street  
Edmonton, AB T5K 2J6 Canada  
(403) 427-5870  
fax (403) 422-0170

BiTech Publishers Ltd.  
173 - 11860 Hammersmith Way  
Richmond, BC V7A 5G1 Canada  
(604) 277-4250  
fax (604) 277-8125

Mining Journal Books Ltd.  
P.O. Box 10  
Edenbridge,  
Kent TN8 5NE  
United Kingdom  
(0732) 864333  
fax (0732) 865747

## APPENDIX D: MINING ENVIRONMENT DATABASE:

Laurentian University's J. N. Desmarais Library maintains the Mining Environment Database, an extensive database on literature pertaining to abandoned mines, acid drainage and land reclamation. The database provides references to journal articles, conference proceedings, books, and government reports dealing with abandoned mines and land reclamation.

Topics include reclamation planning, design and costs; tailings; heavy metals; disposal of hazardous wastes, including acid mine drainage, sulphide-based tailings and asbestos particles; chemical reactivity and oxidation affecting pyrite and pyrrhotite tailings; leaching; radioactive hazards of uranium tailings; soil and water contamination; soil stabilization; liming; fertilizers; seeding techniques; mine closure techniques, and other related topics. Subject coverage is international in scope.

The database is searchable through the Internet. Searching is free with the exception of long distance costs. You will need an IBM-compatible computer, a modem (up to 9600 baud rate), and appropriate communications software. Modem speeds to 19,200 bps are supported. Kermit communications software is available free by sending a formatted diskette to the Circulation Section, J. N. Desmarais Library, at the address below.

Mining Environment Database  
J. N. Desmarais Library  
Laurentian University  
Sudbury, Ontario P3E 2C6 Canada  
(705) 675-1151  
fax (705) 673-6524  
e-mail [Ron Slater]  
rslater@laurib.laurentian.ca  
e-mail [Glen Kelly]  
gkelly@laurib.laurentian.ca

The database co-editors, Ron Slater and Glen Kelly, hope to expand the database into a network or association of regional databases, each of which would provide comprehensive access for a specific topic or geographic area, with common access via an Internet gopher. Contact either of the co-editors for supporting documentation and "how-to" literature.

VT 220 terminal emulation is required to access the database via the Internet:

1. Login to your local Internet account
2. At your system's prompt, type:  
telnet laulibr.laurentian.ca
3. <cr>
4. At the "Username" prompt, type: netlib
5. <cr>
6. You are now in Laurentian's online catalog. MEDB is the Mining Environment Database.