

### LANDS DIRECTORATE

### DIRECTION GÉNÉRALE DES TERRES

THE ECOLOGY AND RECLAMATION OF LANDS DISTURBED BY MINING: A SELECTED BIBLIOGRAPHY OF CANADIAN REFERENCES

WORKING PAPER No. 1

L'ECOLOGIE ET LA RECUPERATION DES TERRES PERTURBEES PAR L'ACTIVITE MINIERE: BIBLIOGRAPHIE SELECTIVE DE LA LITTERATURE CANADIENNE

**DOCUMENT DE TRAVAIL No. 1** 







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I.B. MARSHALL

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#### INTRODUCTION

This publication has been developed in response to the need for an up to date compilation of references to literature which examines reclamation of lands disturbed by mining in Canada. It is the by-product of a current study being conducted by the Lands Directorate on the extent of land disturbances attributed to mining in Canada. The study includes such topics as the growth and range of reclamation research, the changes in policy and legislation affecting reclamation, the progress achieved in the past decade; and the identification of current research problems in reclamation.

The limited first edition of this bibliography was published in 1979 (Occasional Paper No. 17) and is now out of print. In response to continued requests for the bibliography this updated and enlarged second edition has been published in the new "Working Paper Series". The new series provides an outlet for publishing Lands Directorate information which comprises mainly secondary aspects or 'spin offs' of major research themes. Papers will usually be of special or narrow interest, pertaining to particular specialist researchers or planners.

This bibliography lists 592 references to material dealing with land disturbances. The major emphasis has been placed on research that will lead to progress in reclaiming land disturbed by mining related activities. bibliography includes basic and applied research findings, as well as reports on economic, legal and political considerations to the problem of land reclamation. It was felt that research conducted on reclamation of lands disturbed by means other than mining should be included where it may be of direct or indirect use in reclaiming disturbed mine lands. Bibliographies containing references to material published in the United States have been included to provide access to reclamation research that may be of significance to Canadian situations.

The bibliography presented here is not exhaustive, but is directed towards reducing the time spent by researchers in obtaining references to Canadian sources. It is hoped that this bibliography will form an interim source until the trend towards more thorough, research oriented annotated bibliographies

#### INTRODUCTION

La présente publication a pour but de mettre à jour la compilation des références documentaires sur la récupération des terres perturbées par l'activité minière au Canada. Elle découle d'une étude présentement en cours à la Direction générale des terres sur l'étendue des perturbations attribuables à cette activité. L'étude porte, entre autres, sur l'augmentation et l'étendue des recherches relatives à la récupération, les changements dans les politiques et les mesures législatives en rapport avec la récupération, les progrès accomplis durant la dernière décennie, et la détermination des problèmes actuels de la recherche concernant la récupération.

Une première édition limitée de cette bibliographie, maintenant épuisée, a paru en 1979 (Publication hors-série no. 17). Vu la demande constante, une deuxième édition revue et augmentée a été publiée dans une nouvelle collection de documents de travail. Cette collection sert de débouché pour la publication des informations de la Direction générale des terres portant surtout sur les "retombées" des grands travaux de recherche. Habituellement, les articles sont d'intérêt particulier ou restreint, s'adressant à des chercheurs spécialisés ou à des planificateurs.

La bibliographie contient une liste de 592 références de documents en rapport avec la perturbation des terres. L'accent a été mis sur la recherche qui permettra de progresser dans la remise en valeur des terres perturbées par l'activité minière. La bibliographie renvoie à des résultats de recherches pures et appliquées, ainsi qu'à des rapports sur des aspects économiques, juridiques et politiques du problème de l'assainissement des terres. Les recherches effectuées sur la récupération des terres perturbées par des activités non reliées à l'exploitation minière devraient être incluses lorsqu'elles peuvent servir, de facon directe ou indirecte, à la remise en valeur des terres minières perturbées. Des bibliographies contenant des références à des documents publiés aux Etats-Unis ont été incluses pour faire connaître des recherches qui peuvent s'adapter à la situation canadienne.

La bibliographie présentée n'est pas exhaustive, mais vise plutôt à réduire le temps par les chercheurs à l'obtention de références sur les travaux canadiens. Elle constituera, espérons-le, une source d'information provisoire jusqu'à ce que les efforts pour produire des bibliographies

completes the coverage of the remaining regions in Canada.

References to five Canadian bibliographies are included in this bibliography. Two were completed under contract to CANMET (Canada Centre for Mineral and Energy Technology, Ottawa) as part of the Pit Slope Project: a general indexed bibliography of Mine Waste Revegetation literature (Abbot, 1976) and a literature review of material pertaining to the revegetation of sulphide mine tailings (Montreal Engineering Co. Ltd., 1977). Both of these reports are unpublished and available on open file in Ottawa. The Ontario Geological Survey (Yundt, 78) has published a bibliography specializing in reference material concerning the rehabilitation of pits and quarries. The remaining two are annotated and systematically indexed regional studies concentrating on reclamation of disturbed mine lands in the mountains and northern areas of British Columbia (Hubbard and Bell, 1977), and the Yukon and Northwest Territories (Peterson and Peterson, 1978). Another annotated bibliography is currently being prepared by the Research Secretariat, Alberta Department of Environment, and will include reference material of importance to reclaiming disturbed lands under the diverse ecological conditions that occur in Alberta.

annotées plus approfondies et orientés vers la recherche portent fruit dans le cas des régions canadiennes non couvertes.

Des références relatives à cinq bibliographies canadiennes sont incluses dans la présente publication. Deux ont été faites à contrat par CANMET (Centre canadien de la technologie des minéraux et de l'énergie), dans le cadre du projet Pit Slope: une bibliographie générale, avec index, de la documentation concernant la restauration de la couverture végétale sur les résidus des mines de sulfure (Montréal Engineering Co. Ltd., 1977). Ces deux rapports sont inédits et disponibles pour consultation à Ottawa. L'Ontario Geological Survey (Yundt, 1978) a publié une bibliographie portant exclusivement sur les documents de référence concernant la récupération des mines et des carrières. Les deux autres sont des études régionales annotées, avec index, portant sur la récupération des terres minières perturbées dans les montagnes et le nord de la Colombie-Britannique (Hubbard et Bell, 1977) ainsi qu'au Yukon et dans les Territoires du Nord-Ouest (Peterson et Peterson, 1978). Une autre bibliographie annotée est présentement en préparation au Secrétariat de la recherche du ministère de l'Environnement de l'Alberta; elle comprendra d'importants documents de référence relatif à la récupération des terres perturbées sous les diverses conditions écologiques de l'Alberta.

#### ARRANGEMENT

This bibliography is presented in alphabetical order by authors. For the convenience of those using the bibliography, each reference is followed by a group of symbols. These represent three codes, identifying area, material/activity and subject, giving a broad characterization of the content for each reference.

For example, A:5:e means that this reference deals with land disturbance in Alberta: the activity is coal mining and the subject matter is revegetation. The codes are as follows:

#### AREA

C - CANADA

N - NEWFOUNDLAND

NB - NEW BRUNSWICK

NS - NOVA SCOTIA

Q - QUEBEC

O - ONTARIO

M - MANITOBA

S - SASKATCHEWAN

A - ALBERTA

BC - BRITISH COLUMBIA

Y - YUKON

NWT - NORTHWEST TERRITORIES

US - UNITED STATES

INT - OTHER INTERNATIONAL

COUNTRIES

#### MATERIAL

1 - Metallic

2 - Non-Metallic

3 - Aggregates

4 - Uranium

5 - Coal

6 - Tar sands

7 - Oil and gas

8 - Exploration, development, roads, trails, campsites

#### SUBJECT

a - General

b - Symposium, Conference or Workshop

Proceedings

c - Bibliographies

d - Planning, methods and techniques,

research problems

e - Revegetation: agronomic, forestry,

native species

f - Legislation, policy

g - costs

#### ORDRE

La présente bibliographie se présente dans l'ordre alphabétique du nom des auteurs. Chaque référence est suivie d'un groupe de symboles, qui devraient faciliter la consultation. Il s'agit de trois codes d'identification pour la région, le matériel/activité et le sujet, ce qui donne une idée du contenu de chaque ouvrage.

Par exemple, A:5:e signifie que le document traite de la perturbation des terres en Alberta: l'activité, c'est l'exploitation minière du charbon et le sujet, la restauration de la couverture végétale. Voici les codes:

#### REGION

C - CANADA

N - TERRE-NEUVE

NB - NOUVEAU BRUNSWICK

NS - NOUVELLE ECOSSE

Q - QUEBEC

O - ONTARIO

M - MANITOBA

S - SASKATCHEWAN

A - ALBERTA

BC - COLOMBIE-BRITANNIQUE

Y - YUKON

NWT - TERRITOIRES DU NORD-OUEST

US - ETATS UNIS

INT - AUTRES PAYS
INTERNATIONAUX

#### MATERIEL

1 - Métallique

2 - Non-métallique

3 - Granulats

4 - Uranium

5 - Charbon

6 - Sables bitumineux

7 - Pétrole et gaz

8 - Exploration, exploitation, routes,

sentiers, campements

#### SUJET

a - Général

b - Comptes rendus de colloque, conférence

ou atelier

c - Bibliographies

d - Planification, méthodes et techniques,

problèmes de recherche

 Restauration de la couverture végétale: agronomie, foresterie,

espèces indigènes

f - Mesures législatives, politique

e - Coûts

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