

Bibliography of Reports

Issued Under the
Great Lakes Water Quality Agreements
of 1972 and 1978,
and the Protocol Amending the 1978 Agreement

July 1990



International Joint Commission
Commission mixte internationale

Great Lakes Regional Office
Windsor, Ontario

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INTRODUCTION

This bibliography lists reports produced as a result of the Great Lakes Water Quality Agreements of 1972, 1978 and the Protocol amending the 1978 Agreement. It is intended to assist researchers, librarians and others interested in Great Lakes water quality.

Article VII, Section 3 charges the Commission to "make a full report ... no less frequently than biennially concerning progress toward the achievement of the General and Specific Objectives including, as appropriate, matters related to Annexes to [the] Agreement. [The] report shall include an assessment of the effectiveness of the programs and other measures undertaken pursuant to [the] Agreement, and advice and recommendations." In alternate years, the Commission may at any time make special reports to the Parties, to the State and Provincial Governments and to the public concerning any problem of water quality in the Great Lakes system.

The Commission may at its discretion publish any report, statement or other document prepared by it in the discharge of its functions.

Further reports are prepared by the boards and groups as necessary; these are published as are the proceedings of workshops and symposia. The Great Lakes Regional Office coordinates the publication of all Great Lakes water quality reports.

PAGE IDENTIFIER CODES

np: non-paginated
vp: various page references

INTERNATIONAL JOINT COMMISSION

The Boundary Waters Treaty of 1909 between the United States and Canada established the International Joint Commission to serve as a binational body with three members appointed by each country. The Commission act as a single body seeking common solutions rather than as separate national delegates representing the positions of their Governments. Though the Treaty was entered into primarily to prevent disputes regarding the use of boundary waters and to provide for the adjustment and settlement of questions arising between the two countries along their common frontier, it has provided the framework for cooperation on questions relating to air and water pollution and the regulation of water levels and flows.

The Commission issues Orders of Approval in response to **Applications** for the use, obstruction or diversion of waters that flow along, and in certain cases across, the boundary if such uses would affect the natural water levels or flows on the other side.

The Commission also undertakes investigations of specific issues, or monitors situations, when requested by Governments. Implementation of IJC recommendations made under such **References** is at the discretion of the two Governments.

Experts from both countries serve on technical boards for the Commission to carry out the required studies and field work. Boards of Control are appointed by the IJC to report on compliance with Orders of Approval, while study or advisory boards assist in References. Public hearings and other opportunities for input by interested citizens are organized when Applications and References are considered.

IJC recommendations concerning pollution in the Great Lakes served as the basis for the Governments to create the Great Lakes Water Quality Agreement, which was signed by the Prime Minister of Canada and the President of the United States on April 15th, 1972.

Six years later, on November 22, 1978, a revision to the 1972 Agreement was signed. It provided **new** programs and more stringent goals to eliminate pollution from the lakes. The concept of a Great Lakes Basin Ecosystem was adopted, which recognizes that water quality depends on the interplay of air, land, water and living organisms, including humans, within the system. This action led to more comprehensive assessments of the Great Lakes cleanup effort.

In 1987, at the Commission's Biennial Meeting, the Governments signed a Protocol to the 1978 Agreement, which aims to strengthen the programs. practices and technology prescribed in the 1978 Agreement and to increase accountability for their implementation. Timetables are set for implementation of specific programs. The Governments will meet biennially to discuss progress and report periodically to the IJC. New annexes address atmospheric deposition of toxic pollutants, contaminated sediments, groundwater and nonpoint sources of pollution. Annexes are also added to incorporate the development and implementation of Remedial Action Plans for Areas of Concern and Lakewide Management Plans to control critical pollutants.

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Annex A: Past and Future Water Level Fluctuations. Prepared by Functional Group 1. - Hydrology, Hydraulics and Climate (draft).

Annex B: Environmental Features, Processes and Impacts: An Ecosystem Perspective on the Great Lakes - St. Lawrence River System. Prepared by Functional Group 2. - Water-Level Criteria for Great Lakes Wetlands.

- Annex C: Interests Policies and Decision Making: Prospects for Managing the Water Levels Issue in the Great Lakes-St. Lawrence River Basin. Prepared by Functional Group 3.
- Toward an Institutional and Policy Framework for Addressing Great Lakes Water Level Fluctuations
 - Reducing Great Lakes Levels Conflicts via Alternative Dispute Resolution
 - Type IV Measures
 - Transportation
 - Commercial and Industrial
 - Agriculture
 - Commercial Fishing
 - Electric Power
 - Riparian Residential
 - Non-Riparian Recreation
 - Environmental Interests
 - Governments
- Annex D: The Great Lakes Ecosystem Perspective: Implications for Water Levels Management. Prepared by Functional Group 5.
- Annex E: Potential Actions to Deal with the Adverse Consequences of Fluctuating Water Levels. Prepared by the Measures Work Group.
- Annex F: Evaluation Instrument. Prepared by the Evaluation Instrument Task Group.
- Annex G: Public Information Program. Prepared by Functional Group 4.

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- International Joint Commission. 1983-1984 Activities Report. [Washington and Ottawa], [1986], 99 pp.
- International Joint Commission. Activities Report 1985. [Washington and Ottawa], [1986], 32 pp. [Printed with French version]
- Commission mixte internationale. Rapport des activités 1985. [Washington et Ottawa], [1986], 31 pp. [Printed with English version]
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- International Joint Commission. Activities Report 1987-1988. [Washington and Ottawa], 1989. [Printed with French version]
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GREAT LAKES WATER QUALITY BOARD

The Agreement established a Great Lakes Water Quality Board to assist the IJC. The Board is the principal advisor to the Commission in matters of Great Lakes water quality and consists of an equal number of members from the United States and Canada, including representatives from federal, state and provincial governments.

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Appendix A: Annual Report of the Water Quality Objectives Subcommittee to the Implementation Committee. Great Lakes Water Quality Board. Windsor, Ontario, June 1975, 239 pp.

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Appendix B: Annual Report of the Surveillance Subcommittee to the Implementation Committee, Great Lakes Water Quality Board. Windsor, Ontario, June 1977, 134 pp.

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Appendix D: Annual Report of the Radioactivity Subcommittee to the Implementation Committee. Great Lakes Water Quality Board. Windsor, Ontario, July 1977, 44 pp.

Appendix E: Status Report on the Persistent Toxic Pollutants in the Lake Ontario Basin. Presented to the Great Lakes Water Quality Board by the Implementation Committee. Windsor, Ontario, December 1976 - (updated January 1977), 95 pp.

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Appendix E: Status Report on Organic and Heavy Metal Contaminants in the Lakes Erie, Michigan, Huron and Superior Basins to the Implementation Committee of the Great Lakes Water Quality Board. D. Konasewich, W. Traversy and H. Zar, eds. Windsor, Ontario, July 1978, 373 pp.

Appendix F: Report on Hazardous Waste Disposal. Windsor, Ontario, July 1978, 34 pp. Great Lakes Water Quality Board. Great Lakes Water Quality Seventh Annual Report to the International Joint Commission. Windsor, Ontario, July 1979, 110 pp.

Appendix B: Annual Report of the Surveillance Subcommittee to the Implementation Committee Great Lakes Water Quality Board. Windsor, Ontario, July 1979, 117 pp.

Appendix C: Inventory of Major Municipal and Industrial Point Source Dischargers in the Great Lakes Basin. Report of the Remedial Programs Subcommittee, Great Lakes Water Quality Board. Windsor, Ontario, July 1979. vp

Appendix D: Annual Report of the Radioactivity Subcommittee to the Implementation Committee, Great Lakes Water Quality Board. Windsor, Ontario, July 1979, 98 pp.

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Appendix A: Progress in Developing Remedial Action Plans for Areas of Concern in the Great Lakes Basin. [Windsor, Ontario], November 1987, 208 pp.

Appendix B: Great Lakes Surveillance. Report to the Great Lakes Water Quality Board. 3/vols. [Windsor, Ontario], March 1989, 879 pp.

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GREAT LAKES SCIENCE ADVISORY BOARD

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Members of the Great Lakes Science Advisory Board are appointed by the Commission after consultation with the government or governments concerned and are selected on the basis of prominence in their field of study, and participate as individuals regardless of agency, academic or industrial affiliation.

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INTERNATIONAL REFERENCE GROUP ON UPPER LAKES POLLUTION

The Commission in 1972 formed a fourteen-member binational body to conduct a study of water quality in Lake Huron-Georgian Bay and Lake Superior. The International Reference Group on Upper Lakes pollution was asked to respond to four questions the two governments had referred to the Commission:

1. Are lakes Superior and Huron being polluted?
2. If so, to what extent, by what causes, and where?
3. What measures would be most practicable to restore and protect water quality and what would such measures probably cost?
4. If pollution is taking place, what preventive actions should be taken to preclude future pollution and what would be the probable cost?

Four working groups assisted the Reference Group by undertaking studies of: nearshore problems; lakewide trends of physical, chemical, biological, bacteriological and geological characteristics; materials input; and background information on hydrology, climate, geology, population, land use and water use. Toward the close of 1975 the studies were completed and authors began preparing the three-volume report presented to the Commission in mid-1976. Volume I is a summary report, Volume II contains details regarding Lake Huron and Georgian Bay, and Volume III relates to Lake Superior.

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- V.I Summary and Recommendations. 1976, 236 pp. vp
- VII Part A Lake Huron, Georgian Bay, and the North Channel. 1977. vp
- VII Part B Lake Huron, Georgian Bay, and the North Channel. 1977. vp
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INTERNATIONAL REFERENCE GROUP ON GREAT LAKES POLLUTION FROM LAND USE ACTIVITIES (PLUARG)

In 1972, the Commission established the International Reference Group on Pollution from Land Use Activities (PLUARG) to carry out studies required to answer the following questions:

1. Are the boundary waters of the Great Lakes system being polluted by land drainage from human-made and natural sources?
2. If the answer to (1) is yes, to what extent, by what causes and in what localities is the pollution occurring?
3. What remedial measures would be most practicable and what would be their costs?

The eighteen-member Reference Group had an equal number of United States and Canadian members. Four task groups, their technical advisors and expert committees assisted the Group.

The studies were designed to:

1. Assess problems, management programs and research on the effects of land use activities on water quality in boundary waters of the Great Lakes.
2. Inventory land use and land use practices for trends and projections to 1980 and 2020.
3. Study intensively a small number of representative watersheds to enable some extrapolation of data to the entire Great Lakes basin and relate specific land uses and practices to contamination of water quality by Great Lakes streams.
4. Diagnose degree of impairment of water quality in the Great Lakes resulting from land use activities.

Since PLUARG's recommendations could provide guidance for land use planning efforts and water usage well into the future, the Group began an extensive public information/participation program in 1976 which was carried out through the rest of its studies and concluded with the Commission's public hearings. PLUARG's final report was presented to the Commission in July 1978.

Annual Reports

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GREAT LAKES REGIONAL OFFICE

Under the 1972 Agreement the International Joint Commission was given authority to establish a Regional Office to assist the Commission and the two Boards. The office provides administrative support and technical assistance for the Water Quality Board and the Science Advisory Board and their sub-organizations. A public information service for the programs, including public hearings, is also undertaken by the Commission and its Boards through the Regional Office.

Under the 1978 Agreement. the Regional Office, on behalf of organisations, continues to compile and disseminate data; prepare and distribute reports; provide library services; organize and staff workshops and conferences; perform liaison with media, organizations and citizens; provide information to the public; perform special studies and provide secretariat support.

The office coordinates the Biennial Meeting at which the Agreement bodies formally report to the Commission. This meeting is open to the public. The Commission publication Focus on International Joint Commission Activities, is available three times per year and deals primarily with the ecosystem quality of the Great Lakes.

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ADDENDUM

The following new reports will be included in the 1992 revision of the Bibliography:

Exotic Species and the Shipping Industry: The Great Lakes-St. Lawrence Ecosystem Risk. A special report to the Governments of the United States and Canada by the International Joint Commission and the Great Lakes Fishery Commission. September 1990, 77 pp. (also available in french).

Technology for Reducing Organo-Chlorines in Pulp Mill Effluents. Report of the Technological Committee to the Great Lakes Science Advisory Board. Prepared by Paul Earl, University of Toronto. Toronto, Ontario. June 1990, 32 pp.

Biological Surrogates of Mesotrophic Ecosystem Health in the Laurentian Great Lakes. Report to the Great Lakes Science Advisory Board by C.J. Edwards and R.A. Ryder. Windsor, Ontario, July 1990, 78 pp.

An Ecosystem Approach to the Integrity of the Great Lakes in Turbulent Times. Proceedings of a 1988 workshop supported by the Great Lakes Fishery Commission and the Science Advisory Board of the International Joint Commission. Special Publication 90-4, July 1990, 300 pp.

Proceedings of the Expert Consultation Meeting on Bald Eagles. Report of the Ecological Committee's Biological Effects Subcommittee to the Science Advisory Board. Windsor, Ontario, 1991, 33 pp.

Production, Usage and Atmospheric Emissions of 14 Priority Toxic Chemicals. Report to the Great lakes Water Quality, Great Lakes Science Advisory and the International Air Quality Advisory Boards of the International Joint Commission. Invited paper prepared as part of the Proceedings of the Workshop on Great Lakes Atmospheric Deposition (October 29-31, 1986). Windsor, Ontario, 100 pp.

Summary report, Part I of the Futures Workshop on Great Lakes 2000: Building Vision held in Niagara-on-the-Lake, Niagara, Ontario, September 20-22, 1989. Report from the Council of Research Managers to the International Joint Commission. Windsor, Ontario, July 1990, 30 pp.

Proceedings, Part II of the Futures Workshop on Great Lakes 2000: Building A Vision held in Niagara-on-the-Lake, Niagara, Ontario, September 20-22, 1989. Report from the Council of Research Managers to the International Joint Commission. Windsor, Ontario, July 1990, 103 pp.

Proceedings of this Balance Workshop held in Barrie, Ontario, March 7-9, 1990. Report of the Surveillance Subcommittee to the Great Lakes Water Quality Board. Windsor, Ontario, March 1991, 95 pp.

The International Joint Commission and the, Boundary Waters Treaty, Canada-United States 1990. Windsor, Ontario, March 1991, 25 pp.

Special Report: Great Lakes Environmental Education. A special report to the Governments of the United States and Canada by the International Joint Commission. May 1991, 20 pp. (also available in french)