



International Joint Commission
Commission mixte internationale

Bibliography

OF REPORTS

*Issued Under the Boundary Waters Treaty
of 1909 and Great Lakes Water Quality
Agreements of 1972 and 1978, and the
Protocol Amending the 1978 Agreement.*

JANUARY, 1992

International Joint Commission

Washington • Ottawa • Windsor

TD
223.3
B52
REF



International Joint Commission
Commission mixte internationale

Bibliography

OF REPORTS

*Issued Under the Boundary Waters Treaty
of 1909 and Great Lakes Water Quality
Agreements of 1972 and 1978, and the
Protocol Amending the 1978 Agreement*

JANUARY, 1992

International Joint Commission
Washington · Ottawa · Windsor



Printed in Canada
on Recycled Paper

Availability of Reports

Section I of this bibliography lists reports by the International Joint Commission and its boards since 1972, and a select number of reports prepared prior to 1972, under the **Boundary Waters Treaty of 1909**. Reports listed in this section that are still in print are available free of charge on request to the Commission at either of the following addresses:

International Joint Commission
1250 23rd Street, NW
First Floor
Washington, DC 20440

International Joint Commission
100 Metcalfe Street
18th Floor
Ottawa, Ontario K1P 5M1

The Commission's reports under the **Great Lakes Water Quality Agreement** are listed in Section II of this bibliography. Those reports published after 1987 and still in print are available free of charge on request to Information Services of the Commission's Regional Office (address below). Reports listed in this bibliography and printed before December 1987 are available from University Microfilms International in Ann Arbor, Michigan. To order copies of these reports, please contact:

Barbara Roe,
University Microfilms International,
300 North Zeeb Road,
Ann Arbor, MI 48106.
(313) 761-4700 (commercial number)
(800) 345-9084
(toll free number within United States)
(800) 343-5299
(toll free number outside United States)

Copies of reports from both sections may also be available on loan from a library in your vicinity or from the Regional Office Library of the International Joint Commission, at either of the two addresses below:

International Joint Commission
Great Lakes Regional Office
Information Services
100 Ouellette Avenue, 7th Floor
Windsor, Ontario N9A 6T3

International Joint Commission
Great Lakes Regional Office
Information Services
P.O. Box 32869
Detroit, Michigan 48232-2869

Table of Contents

Availability of Reports	ii
Introduction	1
SECTION I:	
Reports under the Boundary Waters Treaty of 1909	2
Reports by Docket	2
Syntheses and General Documents	9
SECTION II:	
Reports under the Great Lakes Water Quality Agreement	11
International Joint Commission Reports to the Governments of the United States and Canada	11
Special Reports	11
Annual Reports	12
Great Lakes Water Quality Board	12
Annual/Biennial Reports	12
Special Reports	15
Proceedings	16
Great Lakes Science Advisory Board	16
Annual/Biennial Reports	16
Special Reports	17
Proceedings	18
Joint Reports: Great Lakes Water Quality and Science Advisory Boards	20
Special Reports	20
Proceedings	20
International Reference Group on Upper Lakes Pollution	20
Annual Reports	21
Special Reports	21
International Reference Group on Great Lakes Pollution from Land Use Activities (PLUARG)	21
Annual Reports	21
Modelling Reports	22
Workshop Proceedings	22
Task 'A' Reports	22
Task 'B' Reports	23
Task 'C' Reports	24
Task 'D' Reports	27
Related Documents	29
Bibliography	29
Great Lakes Regional Office	29
Special Reports	29

Introduction

This bibliography lists reports produced as a result of the Boundary Waters Treaty of 1909, the Great Lakes Water Quality Agreements of 1972 and 1978, and the Protocol amending the 1978 Agreement.

The Boundary Waters Treaty, which established the International Joint Commission, requires Commission approval for certain uses, obstructions or diversions of waters along the boundary between the United States and Canada if such uses affect the natural levels or flows on the other side. Under the Treaty, the Commission also investigates and monitors specific transboundary issues when requested to do so by the Governments. Commission reports to Governments are listed in the first section of this bibliography, along with reports of boards appointed by the Commission to assist in fulfilling various Treaty responsibilities.

The Great Lakes Water Quality Agreement expresses the commitment of both countries to restore and maintain the chemical, physical and biological integrity of the Great Lakes Basin Ecosystem. Under the Agreement, the Commission monitors and assesses progress toward achieving the general and specific Agreement objectives, and reports at least every two years on the effectiveness of the programs and other measures undertaken pursuant to the Agreement along with advice and recommendations. The second section of this bibliography lists the reports prepared by the Commission and its boards under the Agreement.

Page Identifier Code

vp: various pagination schemes

np: no place of publication

International Joint Commission

The Boundary Waters Treaty of 1909 between the United States and Great Britain on behalf of Canada established the International Joint Commission to serve as a binational body with three members appointed by each country. The Commission acts as a single body seeking common solutions rather than as separate national delegations 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 to do so 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 November 1987, at the Commission's Biennial Meeting on Great Lakes Water Quality, 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 Commission. 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.

SECTION I : Reports under the Boundary Waters Treaty of 1909

DOCKET 4: Pollution of Boundary Waters

International Joint Commission. *Final Report of the International Joint Commission on the Pollution of Boundary Waters Reference*. Washington, DC and Ottawa, Ontario, September 1918, 56 pp.

DOCKETS 6 & 8: Lake Superior Regulation

International Lake Superior Board of Control. *Feasibility Study of Remedial Works in the St. Marys Rapids at Sault Ste. Marie*. Toronto, Ontario and Chicago, Illinois, September 1974, vp.

Koshinsky, G.D. and C.J. Edwards. *The Fish and Fisheries of the St. Marys Rapids: An Analysis of Status with Reference to Water Discharge, and with Particular Reference to "Condition I.(b)"*. Windsor, Ontario, March 1983, 233 pp.

The International Lake Superior Board of Control. *Water Quality Monitoring Program for The Great Lakes Power Redevelopment Project*. Toronto, Ontario and Chicago, Illinois, April 1984, 70 pp.

International Lake Superior Board of Control. *Regulation of Lake Superior Plan 1977-A: Development, Description and Testing*. October 1989, 52 pp. (Unpublished).

International Lake Superior Board of Control. *Analysis of Impacts of Plan 1977-A*. April 1990, 18 pp. (Unpublished).

DOCKET 26: Roseau River Drainage, Minnesota and Manitoba

International Roseau River Engineering Board. *Joint Studies for Coordinated Water Use and Control in the Roseau River Basin, Manitoba-Minnesota. Main Report*. St. Paul, Minnesota and Regina, Saskatchewan, September 1975, 45 pp.

International Roseau River Engineering Board. *Joint Studies for Coordinated Water Use and Control in the Roseau River Basin, Manitoba-Minnesota. Appendix A: Historical Documents and References*. St. Paul, Minnesota and Regina, Saskatchewan, September 1975, 9 pp., plates.

International Roseau River Engineering Board. *Joint Studies for Coordinated Water Use and Control in the Roseau River Basin, Manitoba-Minnesota. Appendix B: Water Resources*. St. Paul, Minnesota and Regina, Saskatchewan, September 1975, 55 pp., plates.

International Roseau River Engineering Board. *Joint Studies for Coordinated Water Use and Control in the Roseau River Basin, Manitoba-Minnesota. Appendix C: Related Resources*. St. Paul, Minnesota and Regina, Saskatchewan, September 1975, 42 pp., plates.

International Roseau River Engineering Board. *Joint Studies for Coordinated Water Use and Control in the Roseau River Basin, Manitoba-Minnesota. Appendix D: Socio-Economic Characteristics*. St. Paul, Minnesota and Regina, Saskatchewan, September 1975, 85 pp., plates.

International Roseau River Engineering Board. *Joint Studies for Coordinated Water Use and Control in the Roseau River Basin, Manitoba-Minnesota. Appendix E: Project Investigations*. St. Paul, Minnesota and Regina, Saskatchewan, September 1975, 148 pp., plates.

International Roseau River Engineering Board. *Joint Studies for Coordinated Water Use and Control in the Roseau River Basin, Manitoba-Minnesota. Appendix F: Coordinated Plan Formulation*. St. Paul, Minnesota and Regina, Saskatchewan, September 1975, 47 pp.

International Joint Commission. *Coordinated Water Use and Control in the Roseau River Basin*. Washington, DC and Ottawa, Ontario, 1976, 74 pp.

DOCKET 51: Columbia River Basin

International Columbia River Engineering Board. *Water Resources of the Columbia River Basin. A Preliminary Report to the International Joint Commission*. Ottawa, Ontario, October 1945, 100 pp.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Report to the International Joint Commission*. Ottawa, Ontario and Washington, DC, March 1959, 110 pp.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Abstract of Report to the International Joint Commission*. Ottawa, Ontario and Washington, DC, March 1959, 18 pp.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Appendix I: Columbia River in Canada*. Ottawa, Ontario and Washington, DC, March 1959, 85 pp., plates.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Appendix II: Kootenay Basin*. Ottawa, Ontario and Washington, DC, March 1959, 55 pp., plates.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Appendix III: Clark Fork-Pend Oreille Basin.* Ottawa, Ontario and Washington, DC, March 1959, 54 pp., plates.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Appendix IV: Okanogan-Similkameen Basin.* Ottawa, Ontario and Washington, DC, March 1959, 63 pp., plates.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Appendix V: Columbia River in United States.* Ottawa, Ontario and Washington, DC, March 1959, 55 pp., plates.

International Columbia River Engineering Board. *Water Resources of the Columbia River. Appendix VI: Economic Studies.* Ottawa, Ontario and Washington, DC, March 1959, 32 pp.

International Joint Commission. *Report of the International Joint Commission on Principles for Determining and Apportioning Benefits from Cooperative Use of Storage of Waters and Electrical Inter-Connection within the Columbia River System.* Ottawa, Ontario and Washington, DC, December 1959, 30 pp. (Unpublished).

DOCKET 54: Pollution of St. Clair River, Lake St. Clair, Detroit River and St. Marys River

International Joint Commission. *Pollution of Boundary Waters.* Washington, DC and Ottawa, Ontario, October 1950, 10 pp.

International Joint Commission. *Pollution of Boundary Waters including Reports of the Boards of Technical Advisers.* Washington, DC and Ottawa, Ontario, October 1951, 312 pp.

Lake Huron-Lake Superior-Lake Erie Advisory Board on Control of Pollution of Boundary Waters. *Summary Report on Pollution of the St. Marys River, St. Clair River and Detroit River.* np., September 1968, 87 pp.

DOCKET 55: Pollution of Niagara River

Board of Technical Advisers. *Report on the Pollution of International Boundary Waters. 1948-1949 Investigation: Niagara River-Lake Erie-Lake Ontario Section.* np., May 1950, 213 pp.

Lakes Erie-Ontario Advisory Board. *Summary Report on Pollution of the Niagara River.* np., October 1967, 43 pp.

Lake Erie-Lake Ontario Advisory Board. *The Niagara River. Pollution Abatement Progress.* np., August 1971, 62 pp.

DOCKET 58: Further Uses and Apportionment of Souris and Red Rivers Waters, Saskatchewan, Manitoba, Montana, North Dakota and Minnesota

International Souris-Red Rivers Engineering Board. *Joint Studies for Flow Apportionment, Poplar River Basin, Montana-Saskatchewan. Main Report.* Regina, Saskatchewan and Helena, Montana, February 1976, 43 pp.

International Souris-Red Rivers Engineering Board. *Joint Studies for Flow Apportionment, Poplar River Basin, Montana-Saskatchewan. Appendix A. Existing & Historical Surface Water Use.* Regina, Saskatchewan and Helena, Montana, February 1976, 58 pp.

International Souris-Red Rivers Engineering Board. *Joint Studies for Flow Apportionment, Poplar River Basin, Montana-Saskatchewan. Appendix B. Natural Flow Study.* Regina, Saskatchewan and Helena, Montana, February 1976, 58 pp.

International Souris-Red Rivers Engineering Board. *Joint Studies for Flow Apportionment, Poplar River Basin, Montana-Saskatchewan. Appendix C. Probable Future Use* Regina, Saskatchewan and Helena, Montana, February 1976, 58 pp.

International Joint Commission. *Water Apportionment in the Poplar River Basin.* Washington, DC and Ottawa, Ontario, 1978, 110 pp.

International Souris-Red Rivers Engineering Board. *Impacts on Canada of Operation of the Burlington Project, Souris River North Dakota.* Washington, DC, and Regina, Saskatchewan March 1980, 166 pp.

DOCKET 61: Air Pollution in Windsor- Detroit Area from Vessels

Air Pollution Advisory Board. *Progress Report No. 1: Detroit River Area 1949 Investigation.* April 1950, np., 14 pages, appendices, (Unpublished).

Technical Advisory Board on Air Pollution. *Report on Smoke Performance of Vessels Plying the Detroit River during Navigation Season 1953.* February 1954, np., vp.

Technical Advisory Board on Air Pollution. *Report on Smoke Performance of Vessels Plying the Detroit River during Navigation Season 1954.* February 1955, np., vp.

Technical Advisory Board on Air Pollution. *Investigations of the Canadian Section during 1954.* April 1955, np., 84 pp., plates.

International Joint Commission. *Report of the International Joint Commission on the Pollution of the Atmosphere in the Detroit River Area including Report of the Technical Advisory Board on Air Pollution (1959).* Washington, DC and Ottawa, Ontario, December 1960, 241 pp.

DOCKET 67: Lake Ontario Water Levels

International Lake Ontario Board of Engineers. *Regulation of Lake Ontario. Interim Report to the International Joint Commission.* np., March 1955, vp.

International Lake Ontario Board of Engineers. *Effect on Lake Ontario of an Increase of 1,000 Cubic Feet per Second in the Diversion at Chicago for a Period of 3 Years. Interim Report to the International Joint Commission.* np., June 1955, vp.

International Lake Ontario Board of Engineers. *Regulation of Lake Ontario. Vol. 1: Text.* np., March 1957, 138 pp.

International Lake Ontario Board of Engineers. *Regulation of Lake Ontario. Vol. 2: Tables and Plates.* np., March 1957, vp.

International Lake Ontario Board of Engineers. *Regulation of Lake Ontario. Vol. 3: Appendices.* np., March 1957, vp.

International Lake Ontario Board of Engineers. *Effects on Lake Ontario Water Levels of the Gut Dam and Channel Changes in the Galop Rapids Reach of the St. Lawrence River. Main Report.* np., October 1958, 58 pp., plates.

International Lake Ontario Board of Engineers. *Effects on Lake Ontario Water Levels of the Gut Dam and Channel Changes in the Galop Rapids Reach of the St. Lawrence River. Appendix A: Gauge Relationships.* np., October 1957, 31 pp., plates.

International Lake Ontario Board of Engineers. *Effects on Lake Ontario Water Levels of the Gut Dam and Channel Changes in the Galop Rapids Reach of the St. Lawrence River. Appendix B: Backwater Computations.* np., October 1957, 16 pp., plates.

International Lake Ontario Board of Engineers. *Effects on Lake Ontario Water Levels of the Gut Dam and Channel Changes in the Galop Rapids Reach of*

the St. Lawrence River. Appendix C: Hydraulic Model Study of Galop Rapids Reach of the St. Lawrence River. np., October 1957, vp.

International Lake Ontario Board of Engineers. *Water Levels of Lake Ontario. Final Report to the International Joint Commission.* np., December 1958, 54 pp.

International Joint Commission. *Water Levels of Lake Ontario. Report to the Government of Canada and the Government of the United States.* Ottawa, Ontario and Washington, DC, April 1961, vp.

DOCKET 79: Lake Erie-Niagara River Ice Boom

Rumer, Ralph R. and Acres Consulting Services Limited. *Lake Erie-Niagara River Ice Boom Study.* Report to the International Niagara Board of Control. Buffalo, New York, January 1974, 59 pp.

National Research Council. *The Lake Erie-Niagara Ice Boom: Operations and Effects.* Report to the International Joint Commission. Washington, DC, 1983, 74 pp.

DOCKET 80: Vanceboro Dam, Maine and New Brunswick

International St. Croix River Board of Control. *Report on Spednik Lake Regulation Study: St. Croix River Basin, Maine and New Brunswick.* np., January 1975, 38 pp., appendices.

International St. Croix River Board of Control. *Addendum to the Report on the Spednik Lake Regulation Study Relating to the Establishment of a Rule Curve for the Operation of the St. Croix River Reservoir System, St. Croix River Basin, Maine and New Brunswick.* np., January 1978, 8 pp.

DOCKET 81: Red River Pollution, Manitoba, Minnesota and North Dakota

International Joint Commission. *Pollution of the Red River.* Washington, DC and Ottawa, Ontario, April 1968, 53 pp.

International Red River Pollution Board. *Report on Dissolved Oxygen Depletion in the Red River, March 26-April 10, 1975.* Denver, Colorado and Regina, Saskatchewan, June 1975, vp.

DOCKET 82: Great Lakes Water Levels

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels: Interim Report on Lakes Superior & Ontario Regulation.* Ottawa, Ontario and Chicago, Illinois, March 15, 1973.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels: A Summary Report.* Ottawa, Ontario and Chicago, Illinois, 1974, 17 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Report to the International Joint Commission.* Ottawa, Ontario and Chicago, Illinois, December 1973, 294 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix A: Hydrology and Hydraulics.* Ottawa, Ontario and Chicago, Illinois, December 1973, 59 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix B: Lake Regulation, Volume I of 3.* Ottawa, Ontario and Chicago, Illinois, December 1973, 294 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix B: Lake Regulation Volume II of 3, Coordinated Basic Data.* Ottawa, Ontario and Chicago, Illinois, December 1973, 252 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix B: Lake Regulation Volume III of 3, Simulation of Great Lakes Basin Water Supplies and Winter Flow Retardation in Connecting Channels.* Ottawa, Ontario and Chicago, Illinois, December 1973, 231 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix C: Shore Property.* Ottawa, Ontario and Chicago, Illinois, December 1973, 145 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix D: Fish Wildlife and Recreation.* Ottawa, Ontario and Chicago, Illinois, December 1973, 190 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix E: Commercial Navigation.* Ottawa, Ontario and Chicago, Illinois, December 1973, 156 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix F: Power.* Ottawa, Ontario and Chicago, Illinois, December 1973, 122 pp.

International Great Lakes Levels Board. *Regulation of Great Lakes Water Levels. Appendix G: Regulatory Works.* Ottawa, Ontario and Chicago, Illinois, December 1973, 213 pp.

International Joint Commission. *Further Regulation of the Great Lakes.* Washington, DC and Ottawa, Ontario, 1976, 96 pp.

Commission mixte internationale. *Régularization accrue des Grands lacs.* [Washington, DC and Ottawa, Ontario], 1976, 102 pp.

DOCKET 85: Transboundary Air Pollution

International Joint Commission. *Transboundary Air Pollution: Detroit and St. Clair River Areas.* Washington, DC and Ottawa, Ontario, 1972, 69 pp.

International Air Quality Advisory Board. *Second Regional Workshop on Integrated Transboundary Monitoring: Burlington, Vermont, February 6-8, 1989.* Washington, DC and Ottawa, Ontario, 1990, 130 pp.

DOCKET 86: American Falls at Niagara

International Joint Commission. *Preservation and Enhancement of the American Falls at Niagara.* Washington, DC and Ottawa, Ontario, 1975, 28 pp.

DOCKET 92: Point Roberts, Washington and British Columbia

U.S. National Park Service and Parks Canada. *An Inventory of International Park Possibilities: Point Roberts, Boundary Bay, San Juan and Gulf Islands Archipelago.* A Joint Report to the International Point Roberts Board. Ottawa, Ontario and Seattle, Washington, August, 1973, 87 pp., appendices.

International Point Roberts Board. *On Solutions to the Problems Facing the Residents of Point Roberts.* Vancouver, British Columbia and Alexandria, Virginia, October 1973, 141 pp.

International Point Roberts Board. *Supplemental Report.* Vancouver, British Columbia and Alexandria, Virginia, September 1974, 45 pp.

International Joint Commission. *Interim Report under the Reference of April 21, 1971.* Washington, DC and Ottawa, Ontario, November 1974, 4 pp.

International Joint Commission. *Final Report under the Reference of April 21, 1971.* Washington, DC and Ottawa, Ontario, August 1977, 2 pp.

DOCKET 96: St. John River Water Quality, New Brunswick and Maine

Canada-U.S. Committee on Water Quality in Saint John River. *Report.* np., September 1975, 32 pp., appendices.

International Joint Commission. *Water Quality in Saint John River Basin.* Washington, DC and Ottawa, Ontario, 1977, 60 pp.

DOCKET 98: Champlain- Richelieu Regulation Study, New York, Vermont and Quebec

International Richelieu Champlain Engineering Board. *Richelieu River-Lake Champlain Study: Summary of Results.* Hull, Quebec and Albany, New York, October 1974, 17 pp.

International Champlain-Richelieu Engineering Board. *Regulation of Lake Champlain: Final Report.* Hull, Quebec and Albany, New York, September 1974, vp.

International Champlain-Richelieu Engineering Board. *Regulation of Lake Champlain: Hydraulic Appendix, Vol. I.* Ottawa, Ontario, February 1974, 140 pp.

International Champlain-Richelieu Engineering Board. *Regulation of Lake Champlain: Hydraulic Appendix, Vol. II.* Ottawa, Ontario, February 1974, 54 pp., appendices.

International Champlain-Richelieu Engineering Board. *Regulation of Lake Champlain: Hydraulic Appendix, Vol. III.* Ottawa, Ontario, June 1974, 12 pp., plates.

International Champlain-Richelieu Engineering Board. *Regulation of Lake Champlain: Hydraulic Appendix, Vol. IV.* Ottawa, Ontario, August 1974, 4 pp., plates.

International Champlain-Richelieu Engineering Board. *Regulation of Lake Champlain: Economic Appendix*. Ottawa, Ontario, September 1974, vp.

International Champlain-Richelieu Engineering Board. *Regulation of Lake Champlain: Environmental Appendix*. Ottawa, Ontario, 1974, vp.

International Joint Commission. *Interim Report on the Regulation of the Richelieu River & Lake Champlain*. Washington, DC and Ottawa, Ontario, March 1975, 24 pp.

Turk, John T. *Apparent Use of Sediment Nitrogen and Phosphorus by Plants in Mallets Creek Marsh with Implications to Lake Champlain Water Level Regulation*. Prepared for the International Joint Commission. Newton Corner, Massachusetts, 1977, 19 pp., tables.

International Champlain-Richelieu Board. *Regulation of Lake Champlain and the Upper Richelieu River*. Hull, Quebec and Albany, New York, 1977, 76 pp.

International Champlain-Richelieu Board. *Regulation of Lake Champlain and the Upper Richelieu River. Supplemental Report*. Hull, Quebec and Albany, New York, August 1978, 52 pp.

International Champlain-Richelieu Board, Ad Hoc Committee. *Chambly Canal Flow Diversion Test, April 1979*. np., November 1979, 20 pp., plates.

International Joint Commission. *Regulation of the Richelieu River and Lake Champlain*. Washington, DC and Ottawa, Ontario, January 1981, 28 pp.

DOCKET 99: Air Quality in the Michigan-Ontario Region

International Joint Commission. *First Annual Report on Ontario-Michigan Air Pollution*. Washington, DC and Ottawa, Ontario, 1976, 30 pp.

International Michigan-Ontario Air Pollution Board. *Second Annual Report*. Toronto, Ontario and Lansing, Michigan, September 1977, 11 pp., figures.

International Joint Commission. *Second Annual Report on Michigan-Ontario Air Pollution*. Washington, DC and Ottawa, Ontario, 1977, 14 pp.

International Michigan-Ontario Air Pollution Board. *Third Annual Report*. Toronto, Ontario and Lansing, Michigan, October 1978, 16 pp., figures.

International Joint Commission. *Third Annual Report on Michigan-Ontario Air Pollution*. Washington, DC and Ottawa, Ontario, 1978, 25 pp.

International Michigan-Ontario Air Pollution Board. *Fourth Annual Report*. Toronto, Ontario and Lansing, Michigan, October 1979, 42 pp.

International Joint Commission. *Fourth Annual Report on Michigan-Ontario Air Pollution*. Washington, DC and Ottawa, Ontario, 1979, 29 pp.

International Michigan-Ontario Air Pollution Board. *Fifth Annual Report*. Toronto, Ontario and Lansing, Michigan, October 1980, 22 pp., figures.

International Michigan-Ontario Air Pollution Board. *Sixth Annual Report*. Toronto, Ontario and Lansing, Michigan, October 1981, 11 pp.

International Michigan-Ontario Air Pollution Board. *Seventh Annual Report*. Toronto, Ontario and Lansing, Michigan, September 1982, 28 pp., figures.

International Joint Commission. *Annual Report on Michigan-Ontario Air Pollution*. Washington, DC and Ottawa, Ontario, 1982, 20 pp.

International Michigan-Ontario Air Pollution Board. *Eighth Annual Report*. Toronto, Ontario and Lansing, Michigan, October 1983, 29 pp., figures.

International Joint Commission. *Final Report Pursuant to the July 8, 1975 Reference on the State of Air Quality in*

the Detroit-Windsor and Port Huron-Sarnia Areas. Washington, DC and Ottawa, Ontario, January 1984, 4 pp.

Detroit-Windsor/Port Huron-Sarnia Air Pollution Advisory Board. *Report to the International Joint Commission*. Toronto, Ontario and Lansing, Michigan, December 1990, 233 pp.

DOCKET 101: Garrison Diversion Study, North Dakota, Alberta, Saskatchewan and Manitoba

International Garrison Diversion Study Board. *Report to the International Joint Commission*. Billings, Montana and Regina, Saskatchewan, October 1976, 255 pp.

International Garrison Diversion Study Board. *Report to the International Joint Commission. Appendix A: Water Quality Report*. Billings, Montana and Regina, Saskatchewan, October 1976, 459 pp.

International Garrison Diversion Study Board. *Report to the International Joint Commission. Appendix B: Water Quantity Report*. Billings, Montana and Regina, Saskatchewan, October 1976, 229 pp.

International Garrison Diversion Study Board. *Report to the International Joint Commission. Appendix C: Biology Report*. Billings, Montana and Regina, Saskatchewan, October 1976, 392 pp.

International Garrison Diversion Study Board. *Report to the International Joint Commission. Appendix D: Uses Report*. Billings, Montana and Regina, Saskatchewan, October 1976, 311 pp.

International Garrison Diversion Study Board. *Report to the International Joint Commission. Appendix E: Engineering Report*. Billings, Montana and Regina, Saskatchewan, October 1976, 120 pp.

International Joint Commission. *Transboundary Implications of the Gar- rison Diversion Unit*. Washington, DC and Ottawa, Ontario, 1977, 153 pp.

DOCKET 103: Limited Regulation of Lake Erie

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Main Report*. Report to the International Joint Commission. Burlington, Ontario and Chicago, Illinois, July 1981, 231 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix A: Lake Regulation, Vol. I*. Burlington, Ontario and Chicago, Illinois, July 1981, 91 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix A: Lake Regulation, Vol. II: Coordinated Basic Data and Computer Programs*. Burlington, Ontario and Chicago, Illinois, July 1981, 375 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix B: Regulatory Works*. Burlington, Ontario and Chicago, Illinois, July 1981, 133 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix C: Coastal Zone*. Burlington, Ontario and Chicago, Illinois, July 1981, 220 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix D: Commercial Navigation*. Burlington, Ontario and Chicago, Illinois, July 1981, 141 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix E: Power*. Burlington, Ontario and Chicago, Illinois, July 1981, 116 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix E: Power. Annex D: Computer Programs*. Burlington, Ontario and Chicago, Illinois, July 1981, 540 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix F: Environmental Effects*. Burlington, Ontario and Chicago, Illinois, July 1981, 142 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix G: Recreational Beaches and Boating*. Burlington, Ontario and Chicago, Illinois, July 1981, 252 pp.

International Lake Erie Regulation Study Board. *Lake Erie Water Level Study. Appendix H: Public Information Program*. Burlington, Ontario and Chicago, Illinois, July 1981, 375 pp.

International Joint Commission. *Limited Regulation of Lake Erie*. Washington, DC and Ottawa, Ontario, November 1983, 57 pp.

Commission mixte internationale. *Régulation limitée du Lac Erié. Résumé a l'intention de la direction*, [Washington, DC et Ottawa, Ontario], Novembre 1983, 5pp.

DOCKET 104: Great Lakes Diversions and Consumptive Uses

International Great Lakes Diversions and Consumptive Uses Study Board. *Great Lakes Diversions and Consumptive Uses*. Burlington, Ontario and Chicago, Illinois, September 1981, 258 pp.

International Great Lakes Diversions and Consumptive Uses Study Board. *Great Lakes Diversions and Consumptive Uses. Appendix A: Coordinated Basic Data*. Burlington, Ontario and Chicago, Illinois, September 1981, 233 pp.

International Great Lakes Diversions and Consumptive Uses Study Board. *Great Lakes Diversions and Consumptive Uses. Appendix B: Computer Models - Great Lakes*. Burlington, Ontario and Chicago, Illinois, September 1981, 203 pp.

International Great Lakes Diversions and Consumptive Uses Study Board. *Great Lakes Diversions and Consumptive Uses. Appendix C: Diversion Management Scenarios*. Burlington, Ontario and Chicago, Illinois, September 1981, 324 pp.

International Great Lakes Diversions and Consumptive Uses Study Board. *Great Lakes Diversions and Consumptive Uses. Annex F: Consumptive Water Use*. Burlington, Ontario and Chicago, Illinois, September 1981, 151 pp.

International Great Lakes Diversions and Consumptive Uses Study Board. *Great Lakes Diversions and Consumptive Uses. Annex G: Evaluation of Diversion Management Scenarios and Consumptive Water Use Projections*. Burlington, Ontario and Chicago, Illinois, September 1981, 147 pp.

International Joint Commission. *Great Lakes Diversions and Consumptive Uses*. A Report to the Governments of the United States and Canada. [Washington, DC and Ottawa, Ontario], January 1985, 82 pp.

DOCKET 105: Great Lakes Technical Information Network

International Great Lakes Technical Information Network Board. *Great Lakes Hydrometeorologic and Hydraulic Data Needs*. Report to the International Joint Commission. Cornwall, Ontario and Detroit, Michigan, December 1984, vp.

International Great Lakes Technical Information Network Board. *Great Lakes Hydrometeorologic and Hydraulic Data Needs. Appendix A: Hydraulics, Hydrology and Systems Evaluation*. Cornwall, Ontario and Detroit, Michigan, December 1984, 192 pp.

International Great Lakes Technical Information Network Board, Hydrology Committee. *Great Lakes Hydrometeorological Station Directory*. Great

Lakes Environmental Research Laboratory, National Oceanic and Atmospheric Administration Data Report ERL GLERL-22, Ann Arbor, Michigan, 1983, 259 pp.

DOCKET 106: Great Lakes Levels Advisory Board

International Great Lakes Levels Advisory Board. *Public Information and Participation*. Burlington, Ontario and Albany, New York, November 1982, 32 pp.

Institute of Environmental Research, Inc. and Barry Lawson Associates, Inc. *The International Joint Commission and Its Publics. Vol. I: An Analysis of Current Policies and Programs and Alternatives for the Future*. Prepared for the International Great Lakes Levels Advisory Board. Willowdale, Ontario and Boston, Massachusetts, March 1982, 74 pp.

Institute of Environmental Research, Inc. and Barry Lawson Associates, Inc. *The International Joint Commission and Its Publics. Vol. II: An Evaluation Framework for the Public Participation and Information Programs of the IJC and its Boards*. Prepared for the International Great Lakes Levels Advisory Board. Willowdale, Ontario and Boston, Massachusetts, March 1982, 66 pp.

Institute of Environmental Research, Inc. and Barry Lawson Associates, Inc. *The International Joint Commission and Its Publics. Vol. III: Appendices (A) Characteristics of the Public that Influence their Involvement in IJC Activities, (B) Description of Past and Present Public Involvement Activities*. Prepared for the International Great Lakes Levels Advisory Board. Willowdale, Ontario and Boston, Massachusetts, March 1982, vp.

DOCKET 107: Poplar River Water Quality, Saskatchewan and Manitoba

International Poplar River Water Quality Board. *International Poplar River Water Quality Study. Main Report*. Ottawa, Ontario, 1979, 113 pp.

International Poplar River Water Quality Board. *International Poplar River Water Quality Study. Appendix A: Surface Water Quality*. Ottawa, Ontario, 1979, 361 pp.

International Poplar River Water Quality Board. *International Poplar River Water Quality Study. Appendix B: Ground Water Quantity and Quality*. Ottawa, Ontario, 1979, 80 pp.

International Poplar River Water Quality Board. *International Poplar River Water Quality Study. Appendix C: Biological Resources*. Ottawa, Ontario, 1979, 133 pp.

International Poplar River Water Quality Board. *International Poplar River Water Quality Study. Appendix D: Uses and Water Quality Objectives*. Ottawa, Ontario, 1979, 199 pp.

International Poplar River Water Quality Board. *International Poplar River Water Quality Study. Appendix E: Plant, Mine and Reservoir Operations*. Ottawa, Ontario, 1979, vp.

International Joint Commission. *Water Quality in the Poplar River Basin*. Washington, DC and Ottawa, Ontario, January 1981, 268 pp.

DOCKET 110: Flathead River Basin, British Columbia and Montana

Flathead River International Study Board. *Mine Development Committee Technical Committee Report*. Helena, Montana and Vancouver, British Columbia, December 1986, vp.

Flathead River International Study Board. *Limnology Task Force Report on Flathead Lake, Montana*. Helena, Montana and Vancouver, British Columbia, December 1986, 37 pp.

Flathead River International Study Board. *Water Quality Criteria Subcommittee Technical Report*. Helena, Montana and Vancouver, British Columbia, May 1987, 76 pp.

Flathead River International Study Board. *Water Quality and Quantity Committee Technical Report*. Helena, Montana and Vancouver, British Columbia, August 1987, 192 pp.

Flathead River International Study Board. *Water Uses Technical Committee Report*. Helena, Montana and Vancouver, British Columbia, December 1987, vp.

Flathead River International Study Board. *Report of The Flathead River International Study Board*. Helena, Montana and Vancouver, British Columbia, June 1988, 235 pp.

Flathead River International Study Board. *Board Supplemental Report*. Helena, Montana and Vancouver, British Columbia, June 1988, 26 pp.

International Joint Commission. *Impacts of a Proposed Coal Mine in the Flathead River Basin*. Washington, DC and Ottawa, Ontario, December 1988, 26 pp.

Docket 111: Fluctuating Water Levels in the Great Lakes and St. Lawrence River Basin

Great Lakes Water Levels Task Force. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: Summary*. Burlington, Ontario and Detroit, Michigan, October 1987, 27 pp.

Great Lakes Water Levels Task Force, Task Group 1. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: Lake Superior Storage*. Burlington, Ontario and Detroit, Michigan, October 1987, 77 pp.

Great Lakes Water Levels Task Force, Task Group 2. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: Lake Ontario/St. Lawrence River*. Burlington, Ontario and Detroit, Michigan, October 1987, 31 pp.

Great Lakes Water Levels Task Force, Task Group 3. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: Diversions Management*. Burlington, Ontario and Detroit, Michigan, October 1987, 131 pp.

Great Lakes Water Levels Task Force, Task Group 4. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: Niagara River*. Burlington, Ontario and Detroit, Michigan, October 1987, 34 pp.

Great Lakes Water Levels Task Force, Task Group 5. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: St. Clair/Detroit Rivers*. Burlington, Ontario and Detroit, Michigan, October 1987, 32 pp.

Great Lakes Water Levels Task Force, Task Group 6. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: Ice Management*. Burlington, Ontario and Detroit, Michigan, October 1987, 60 pp.

Great Lakes Water Levels Task Force, Task Group 7. *Report on Great Lakes Basin-St. Lawrence River Coastal Zone. Inventory of Measures and Shoreline Management Practices*. Burlington, Ontario and Detroit, Michigan, October 1987, 50 pp.

Great Lakes Water Levels Task Force, Task Group 8. *Report on Potential Measures to Alleviate Problems Created by Current High Lake Levels: Systemic Effects*. Burlington, Ontario and Detroit, Michigan, October 1987, 27 pp.
International Joint Commission. *Interim*

Report on 1985-86 High Water Levels in the Great Lakes-St. Lawrence River Basin. Washington, DC and Ottawa, Ontario, October 1988, 30 pp.

Commission mixte internationale. *Rapport provisoire sur les niveaux élevés de l'eau en 1985-1986 dans le bassin des Grands lacs et du Saint-Laurent*. [Washington, DC and Ottawa, Ontario], Octobre 1988, 26 pp.

Project Management Team. *Living With the Lakes: Challenges and Opportunities. Progress Report to the International Joint Commission*. Burlington, Ontario and Chicago, Illinois, July 1989, 108 pp.

Project Management Team. *Living With the Lakes: Challenges and Opportunities: Executive Summary to the Annexes*. Burlington, Ontario and Chicago, Illinois, July 1989, 25 pp.

Project Management Team, Functional Group 1. *Living With the Lakes: Challenges and Opportunities. Annex A: Past and Future Water Level Fluctuations*. Burlington, Ontario and Chicago, Illinois, May 1989, 77 pp.

Project Management Team, Functional Group 2. *Living With the Lakes: Challenges and Opportunities. Annex B: Environmental Features, Processes and Impacts — An Ecosystem Perspective on the Great Lakes-St. Lawrence River System*. Burlington, Ontario and Chicago, Illinois, June 1989, 169 pp.

Project Management Team, Functional Group 3. *Living With the Lakes: Challenges and Opportunities. Annex C: Interests, Policies and Decision Making — Prospects for Managing the Water Levels Issue in the Great Lakes-St. Lawrence River Basin*. Burlington, Ontario and Chicago, Illinois, June 1989, 153 pp.

Project Management Team, Functional Group 5. *Living With the Lakes: Challenges and Opportunities. Annex D: The Great Lakes Ecosystem Perspective — Implications for Water Levels Management*. Burlington, Ontario and Chicago, Illinois, June 1989, 79 pp.

Project Management Team, Measures Work Group. *Living With the Lakes: Challenges and Opportunities. Annex E: Potential Actions to Deal with the Adverse Consequences of Fluctuating Water Levels*. Burlington, Ontario and Chicago, Illinois, May 1989, 72 pp.

Project Management Team, Evaluation Instrument Task Group. *Living With the Lakes: Challenges and Opportunities. Annex F: Evaluation Instrument*. Burlington, Ontario and Chicago, Illinois, May 1989, 91 pp.

Project Management Team, Functional Group 4. *Living With the Lakes: Challenges and Opportunities. Annex G: Public Information Program*. Burlington, Ontario and Chicago, Illinois, May 1989, 122 pp.

Syntheses and General Documents

International Joint Commission. *Toward a Transboundary Monitoring Network: A Continuing Binational Exploration*. Proceedings of a Workshop and Related Assembled during the Editing Process. 2 Vols. Peter T. Haug, Bruce L. Bandurski and Andrew L. Hamilton, eds. [Washington, DC and Ottawa, Ontario], June 1986, 769 pp.

International Joint Commission. *Annual Report 1974*. Washington, DC and Ottawa, Ontario, May 1975, 31 pp.

International Joint Commission. *Annual Report 1975*. Washington, DC and Ottawa, Ontario, 1976, 52 pp.

International Joint Commission. *Annual Report 1976*. Washington, DC and Ottawa, Ontario, 1977, 63 pp.

International Joint Commission. *Annual Report 1977*. Washington, DC and Ottawa, Ontario, 1979, 50 pp.

International Joint Commission. *70 Years of Accomplishment. Report for Years 1978-1979*. Washington, DC and Ottawa, Ontario, 1980, 64 pp.

International Joint Commission. *1980 Annual Report*. [Activities Report]. Washington, DC and Ottawa, Ontario, 1982, 44 pp.

International Joint Commission. *Report to December 1982*. Washington, DC and Ottawa, Ontario, 1983, 35 pp.

Commission mixte internationale. *Rapport au 31 décembre 1982*. [Washington, DC et Ottawa, Ontario], 1983, 37 pp.

International Joint Commission. *1983-1984 Activities Report*. Washington, DC and Ottawa, Ontario, 1985, 99 pp.

International Joint Commission. *Activities Report 1985*. Washington, DC and Ottawa, Ontario, 1986, 32 pp.

Commission mixte internationale. *Rapport des activités 1985*. [Washington, DC et Ottawa, Ontario], 1986, 31 pp. [Printed with English version].

International Joint Commission. *Activities Report 1986*. Washington, DC and Ottawa, Ontario, 1986, 38 pp.

Commission mixte internationale. *Rapport des activités 1986*. [Washington, DC et Ottawa, Ontario], 1986, 38 pp. [Printed with English version].

International Joint Commission. *International Joint Commission Activities 1987-1988*. Washington, DC and Ottawa, Ontario, 1990, 77 pp.

Commission mixte internationale. *Rapport des activités 1987-1988*. [Washington, DC et Ottawa, Ontario], 1986, 38 pp. [Printed with English version].

International Joint Commission. *The International Joint Commission and the Boundary Waters Treaty*. Text of Treaty, IJC Rules of Procedure and Overview of IJC Activities. Washington, DC and Ottawa, Ontario, 1990, 25 pp.

La Commission mixte internationale et le Traité relatif aux eaux limitrophes: Canada et Etats-Unis 1990. Washington, DC et Ottawa, Ontario, Mars 1990, 27 pp.

SECTION II : Reports under the Great Lakes Water Quality Agreement

Docket 200: International Joint Commission Reports to the Governments of the United States and Canada

International Joint Commission. *Report on Great Lakes Water Quality for 1972*. Washington, DC and Ottawa, Ontario, July 1973, 30 pp.

Commission mixte internationale. *Rapport sur la qualité de l'eau dans les Grands lacs en 1972*. [Windsor, Ontario], n.d., 34 pp.

International Joint Commission. *First Biennial Report Under the Great Lakes Water Quality Agreement of 1978*. Washington, DC and Ottawa, Ontario, 1982, 31 pp.

International Joint Commission. *Addendum to the First Biennial Report Under the Great Lakes Water Quality Agreement of 1978*. Washington, DC and Ottawa, Ontario, August 1982, 36 pp.

International Joint Commission. *Second Biennial Report Under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the States and Provinces of the Great Lakes Basin*. [Washington, DC and Ottawa, Ontario], 1984, 17 pp.

International Joint Commission. *Third Biennial Report Under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the States and Provinces of the Great Lakes Basin*. [Washington, DC and Ottawa, Ontario], December 1986, 45 pp.

International Joint Commission. *Third Biennial Report: Executive Summary*. [Washington, DC and Ottawa, Ontario], December 1986, 10 pp.

Commission mixte internationale. *Troisième rapport biennal*. [Washington, DC et Ottawa, Ontario], décembre 1986, 43 pp.

Commission mixte internationale. *Troisième rapport biennal: Résumé*. [Washington, DC et Ottawa, Ontario], décembre 1986, 10 pp.

International Joint Commission. *Fourth Biennial Report Under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the States and Provinces of the Great Lakes Basin*. [Washington, DC and Ottawa, Ontario], 1989, 66 pp.

International Joint Commission. *Fourth Biennial Report: Executive Summary*. [Washington, DC and Ottawa, Ontario], March 1989, 19 pp.

Commission mixte internationale. *Quatrième rapport biennal*. [Washington, DC et Ottawa, Ontario], mars 1989, 72 pp.

Commission mixte internationale. *Quatrième rapport biennal: Résumé*. [Washington, DC et Ottawa, Ontario], mars 1989, 18 pp.

International Joint Commission. *Fifth Biennial Report Under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin, Part I*. [Washington, DC and Ottawa, Ontario], March 1990, 20 pp.

International Joint Commission. *Fifth Biennial Report Under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin, Part II*. [Washington, DC and Ottawa, Ontario], April 1990, 60 pp.

Commission mixte internationale. *Cinquième rapport biennal présenté aux gouvernements des Etats-Unis et du Canada ainsi qu'aux états et provinces du bassin des Grands Lacs, aux termes de l'accord de 1978 relatif à la qualité de l'eau dans les Grands Lacs, Partie I*. [Washington, DC et Ottawa, Ontario], mars 1990, 20 pp.

Commission mixte internationale. *Cinquième rapport biennal présenté aux gouvernements des Etats-Unis et du Canada ainsi qu'aux états et provinces du bassin des Grands Lacs, aux termes de l'accord de 1978 relatif à la qualité de l'eau dans les Grands Lacs, Partie II*. [Washington, DC et Ottawa, Ontario], n.d., 24 pp.

Special Reports

International Joint Commission. *A Special Report on Various Provisions of the Great Lakes Water Quality Agreement*. Washington, DC and Ottawa, Ontario, February 1977, 7 pp.

International Joint Commission. *New and Revised Water Quality Objectives. Vol 1*. Washington, DC and Ottawa, Ontario, May 1977, 55 pp.

International Joint Commission. *New and Revised Water Quality Objectives. Vol 2*. Washington, DC and Ottawa, Ontario, 1977, 155 pp.

International Joint Commission. *A Guide to the Great Lakes Water Quality Agreement 1978*. [Windsor, Ontario], n.d., 22 pp.

International Joint Commission. *Great Lakes Water Quality Agreement*. [Washington, DC and Ottawa, Ontario], 1978, 22 pp.

International Joint Commission. *Water Quality of the Upper Great Lakes*. Washington, DC and Ottawa, Ontario, June 1979, 100 pp. International Joint Commission. *Water Quality of the Upper Great Lakes: Summary*. [Windsor, Ontario], May 1979, 18 pp.

International Joint Commission. *Pollution in the Great Lakes Basin from Land Use Activities: Summary*. [Windsor, Ontario], 1980, 15 pp.

International Joint Commission. *Pollution in the Great Lakes Basin from Land Use Activities: An IJC Report to the Governments of the United States and Canada*. Windsor, Ontario, March 1980, 141 pp.

Fifth Year Review of Canada-United States Great Lakes Water Quality Agreement, Report of Task Group III, A Technical Group to Review Phosphorus Loadings. Windsor, Ontario, February 1978, 84 pp.

Commission mixte internationale. *Accord sur la qualité de l'eau dans les Grands lacs 1978*. Windsor, Ontario, 1981, 22 pp.

International Joint Commission. *Interim Report Under the Great Lakes Water Quality Agreement*. Washington, DC and Ottawa, Ontario, 1981, 11 pp.

International Joint Commission. *Special Report Under the 1978 Great Lakes Water Quality Agreement on Pollution in the Niagara River*. Washington, DC and Ottawa, Ontario, January 1981, 10 pp.

International Joint Commission. *Supplemental Report Under the Reference on Pollution in the Great Lakes System from Land Use Activities on Phosphorus Management Strategies*. [Windsor, Ontario], January 1981, 24 pp.

International Joint Commission. *Great Lakes Water Quality Agreement of 1978: Agreement, with Annexes and Terms of Reference, between the United States and Canada Signed at Ottawa November 22, 1978 and Phosphorus Load Reduction Supplement Signed October 7, 1983*. [Washington, DC and Ottawa, Ontario], 1985, 52 pp.

International Joint Commission. *Great Lakes Agreement Information Kit*. Windsor, Ontario, 1992 edition, vp. (Agreement, bibliography, fact sheets, brochures and selected materials produced by other organizations).

International Joint Commission and Great Lakes Fishery Commission. *Exotic Species and the Shipping Industry: The Great Lakes-St. Lawrence Ecosystem at Risk*. A special report to the Governments of the United States and Canada. n.p., September 1990, 77 pp.

Commission mixte internationale et Commission des pêcheries des Grands lacs. *Les espèces exotiques et la marine marchande: Une menace pour l'écosystème des Grands lacs et du Saint-Laurent*. Un rapport spécial présenté aux gouvernements des Etats-Unis et du Canada, n.p., septembre 1990, 55 pp.

International Joint Commission. *Special Report on Great Lakes Environmental Education*. [Windsor, Ontario], May 1991, 20 pp.

Commission mixte internationale. *Rapport spéciale: l'éducation et l'environnement des Grands lacs*. [Windsor, Ontario], mai 1991, 20 pp.

Annual Reports

International Joint Commission. *Second Annual Report on Great Lakes Water Quality*. Washington, DC and Ottawa, Ontario, 1974, 18 pp.

Commission mixte internationale. *Deuxième rapport annuel sur la qualité de l'eau dans les Grands lacs*. [Washington, DC et Ottawa, Ontario], 1973, 18 pp.

International Joint Commission. *Third Annual Report 1974: Great Lakes Water Quality*. Washington, DC and Ottawa, Ontario, December 1975, 24 pp.

Commission mixte internationale. *Troisième rapport annuel: Qualité de l'eau dans les Grands lacs*. [Washington, DC et Ottawa, Ontario], 1975, 24 pp.

International Joint Commission. *Fourth Annual Report: Great Lakes Water Quality*. Washington, DC and Ottawa, Ontario, December 1976, 4 pp.

International Joint Commission. *Fifth Annual Report: Great Lakes Water Quality*. Washington, DC and Ottawa, Ontario, 1977, 10 pp.

International Joint Commission. *Sixth Annual Report: Great Lakes Water Quality*. Washington, DC and Ottawa, Ontario, 1979, 28 pp.

International Joint Commission. *Seventh Annual Report: Great Lakes Water Quality*. Washington, DC and Ottawa, Ontario, 1980, 101 pp.

Docket 206: Great Lakes Water Quality Board

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

Annual / Biennial Reports

Great Lakes Water Quality Board. *First Progress Report to the International Joint Commission*. Windsor, Ontario, September 1972, 9 pp.

Great Lakes Water Quality Board. *Second Semi-annual Report to the International Joint Commission*. Windsor, Ontario, April 1973, 6 pp.

Great Lakes Water Quality Board. *Third Progress Report to the International Joint Commission*. Windsor, Ontario, October 1973, 11 pp.

Great Lakes Water Quality Board. *Fourth Progress Report to the International Joint Commission*. Windsor, Ontario, October 1974, 9 pp.

Great Lakes Water Quality Board. *Great Lakes Water Quality, Annual Report to the International Joint Commission*. Windsor, Ontario, April 1973, 315 pp.

Great Lakes Water Quality Board. *Great Lakes Water Quality, Second Annual Report to the International Joint Commission*. Windsor, Ontario, April 1974, 115 pp.

Great Lakes Water Quality Board. *Great Lakes Water Quality 1974, Third Annual Report to the International Joint Commission*. Windsor, Ontario, July 1975, 170 pp.

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.

Appendix B: *Annual Report of the Surveillance Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, June 1975, 212 pp.

Appendix C: *Annual Report of the Remedial Programs Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, June 1975, 194 pp.

Great Lakes Water Quality Board. *Great Lakes Water Quality 1975, Fourth Annual Report to the International Joint Commission*. Windsor, Ontario, July 1976, 162 pp.

Appendix A: *Annual Report of the Water Quality Objectives Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, June 1976, vp.

Appendix B: *Annual Report of the Surveillance Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, June 1976, vp.

Appendix C: *Annual Report of the Remedial Programs Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, June 1976, vp.

Appendix D: *Annual Report of the Radioactivity Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, June 1976, 48 pp.

Great Lakes Water Quality Board. *Great Lakes Water Quality 1976, Fifth Annual Report to the International Joint Commission*. Windsor, Ontario, July 1977, 72/pp.

Appendix A: *Annual Report of the Water Quality Objectives Subcommittee and the Task Force on the Scientific Basis for Water Quality Criteria to the Implementation Committee of the Great Lakes Water Quality Board and to the Great Lakes Research Advisory Board*. Windsor, Ontario, June 1977, 83 pp.

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

Appendix C: *Annual Report of the Remedial Programs Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, June 1977, vp.

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.

Great Lakes Water Quality Board. *Great Lakes Water Quality, Sixth Annual Report to the International Joint Commission*. Windsor, Ontario, July 1978, 89 pp.

Appendix B: *Annual Report of the Surveillance Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, July 1978, 110 pp.

Appendix C: *Annual Report of the Remedial Programs Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, July 1978, vp.

Appendix D: *Annual Report of the Radioactivity Subcommittee to the Implementation Committee, Great Lakes Water Quality Board*. Windsor, Ontario, July 1978, 69 pp.

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.

Appendix G: *Annual Report of the Committee on the Assessment of Human Health Effects of Great Lakes Water Quality to the Great Lakes Water Quality Board and Great Lakes Science Advisory Board*. Windsor, Ontario, July 1979, 34 pp.

Great Lakes Water Quality Board. *1980 Report on Great Lakes Water Quality to the International Joint Commission*. Windsor, Ontario, November 1980, 68 pp.

Great Lakes Water Quality Board. *1980 Report on Great Lakes Water Quality: Appendix*. Windsor, Ontario, November 1980, 82 pp.

- Great Lakes Water Quality Board. 1981 *Report on Great Lakes Water Quality to the International Joint Commission*. Windsor, Ontario, November 1981, 74 pp.
- Great Lakes Water Quality Board. 1981 *Report on Great Lakes Water Quality: Appendices*. Windsor, Ontario, November 1981.
- Great Lakes Water Quality Board. 1981 *Report on Great Lakes Water Quality to the International Joint Commission: Appendix - Great Lakes Surveillance*. Windsor, Ontario, November 1981, 174 pp.
- Great Lakes Water Quality Board. 1982 *Report on Great Lakes Water Quality to the International Joint Commission*. Windsor, Ontario, November 1982, 153 pp.
- Great Lakes Water Quality Board. *Appendix E: Great Lakes Water Quality Status Report on the Persistent Toxic Pollutants in the Lake Ontario Basin*. Presented to the Great Lakes Water Quality Board by the Implementation Committee. *Appendix E: Status Report on Organic and Heavy Metal Contaminants in the Lakes Erie, Michigan, Huron and Superior Basins*. Reprinted in one volume, Windsor, Ontario, 1982, 468 pp. (Lake Ontario volume originally printed 1976; Lakes Erie, Michigan, Huron and Superior volume originally printed 1978.)
- Great Lakes Water Quality Board. 1983 *Report on Great Lakes Water Quality*. Windsor, Ontario, November 1983, 97 pp.
- Great Lakes Water Quality Board. 1983 *Report on Great Lakes Water Quality: Appendix - Great Lakes Surveillance*. [Windsor, Ontario], [1983], 130 pp.
- Great Lakes Water Quality Board. 1983 *Report on Great Lakes Water Quality: Appendix on Radioactivity*. Windsor, Ontario, 1983, 116 pp.
- Great Lakes Water Quality Board. 1983 *Report on Great Lakes Water Quality: Appendix - Dredging Subcommittee Report*. Windsor, Ontario, 1983, 35 pp.
- Dredging Subcommittee. *Evaluation of Dredged Material Disposal Options for Two Great Lakes Harbours Using the Water Quality Board Dredging Subcommittee Guidelines*. Report to the Great Lakes Water Quality Board. [Windsor, Ontario], April 1983, 67 pp.
- Surveillance Work Group. *Research Vessel Inventory*. Report to the Great Lakes Water Quality Board. Robert J. Bond, ed. Windsor, Ontario, July 1983, 103 pp.
- Nonpoint Source Control Task Force of the Great Lakes Water Quality Board. *Nonpoint Source Pollution Abatement in the Great Lakes Basin: An Overview of Post-PLUARG Developments*. Submitted to the Great Lakes Water Quality Board. Windsor, Ontario, August 1983, 129 pp.
- Water Quality Programs Committee, Municipal Abatement Task Force. *A Review of the Municipal Pollution Abatement Programs in the Great Lakes Basin*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, November 1983, 184 pp.
- Water Quality Programs Committee, Municipal Abatement Task Force. *Inventory of Municipal Wastewater Treatment Facilities in the Great Lakes Basin: Appendix A of A Review of the Municipal Pollution Abatement Programs in the Great Lakes Basin*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, November 1983, vp.
- Appendix A: Areas of Concern in the Great Lakes Basin 1983, Update of Class 'A' Areas*. Report to the International Joint Commission. Windsor, Ontario, March 1984, 113 pp.
- Great Lakes Water Quality Board. 1985 *Report on Great Lakes Water Quality*. [Windsor, Ontario], June 1985, 212 pp.
- Conseil de la qualité de l'eau des Grands Lacs. *Rapport de 1985 sur la qualité de l'eau des Grands Lacs*. [Windsor, Ontario], juin 1985, 212 pp.
- A Review of Trends in Lake Erie Water Quality with Emphasis on the 1978-1979 Intensive Survey*. Report to the Surveillance Work Group. David L. Rathke and Clayton J. Edwards, eds. Windsor, Ontario, June 1985, 129 pp.
- Lake Huron Task Force. *Lake Huron 1980 Intensive Survey, Summary Report*. Report to the Surveillance Work Group. David M. Dolan *et al.*, eds. Windsor, Ontario, February 1986, 133 pp.
- Great Lakes Water Quality Board. Surveillance Work Group. *Great Lakes International Surveillance Plan (GLISP)*. 2 Vols. Windsor, Ontario, February 1986, vp.
- Great Lakes Water Quality Board. 1987 *Report on Great Lakes Water Quality*. [Windsor, Ontario], November 1987, 236 pp.
- Conseil de la qualité de l'eau des Grands Lacs. *Rapport de 1987 sur la qualité de l'eau des Grands Lacs*. [Washington, DC et Ottawa, Ontario], novembre 1987, 230 pp.
- 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.
- Great Lakes Water Quality Board. 1989 *Report on Great Lakes Water Quality*. [Windsor, Ontario], September 1989, 154 pp.
- Appendix A: Progress in Developing Remedial Action Plans for Areas of Concern in the Great Lakes Basin*. [Windsor, Ontario], October 1989, 200 pp.
- Great Lakes Water Quality Board. *Review and Evaluation of the Great Lakes Remedial Action Plan Program 1991*. [Windsor, Ontario], June 1991, 50 pp.

Great Lakes Water Quality Board. *Cleaning Up Our Great Lakes, A Report on Toxic Substances in the Great Lakes Basin Ecosystem*. 1991 Report on Great Lakes Water Quality to the International Joint Commission. [Windsor, Ontario], August 1991, 47 pp.

Surveillance Work Group. *Toward a State of the Great Lakes Basin Ecosystem*. [Windsor, Ontario], 1991. (in preparation)

Special Reports

Great Lakes Water Quality Board. *Assessment of the Effects of Nutrient Loadings on Lake Ontario Using a Mathematical Model of the Phytoplankton*. Prepared by Hydrosience, Inc. Windsor, Ontario, March 1976, 116 pp.

Great Lakes Water Quality Board. *New and Revised Specific Water Quality Objectives Proposed (to) the International Joint Commission for the 1972 Agreement Between the United States and Canada on Great Lakes Water Quality*. Windsor, Ontario, September 1976, 182 pp.

Great Lakes Water Quality Board. *Group 2 New and Revised Specific Water Quality Objectives, Proposed (to the International Joint Commission) for the 1972 Agreement Between the United States and Canada on Great Lakes Water Quality*. [Windsor, Ontario], January 1978, 195 pp.

Chlorine Objective Task Force. *Alternatives for Managing Chlorine Residuals: A Social and Economic Assessment*. Final Report to the Great Lakes Water Quality Board. Windsor, Ontario, April 1980, 163 pp.

Toxic Substances Committee. *First Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], November 1980, 99 pp.

Great Lakes Water Quality Board. Surveillance Subcommittee. *Great Lakes International Surveillance Plan*. Windsor, Ontario, November 1980. vp.

Data Quality Work Group. *Data Quality Assessment*. Report to the Water Quality Programs Committee of the Great Lakes Water Quality Board. Windsor, Ontario, November 1980, 95 pp.

Toxic Substances Committee. *Toxic Substances Control Programs in the Great Lakes Basin*. Report to the Great Lakes Water Quality Board. [Windsor, Ontario], [1981], 94 pp.

Water Quality Programs Committee, Pulp and Paper Point Sources Task Force. *The Response of the Pulp and Paper Industry in the Great Lakes Basin to Pollution Abatement Programs*. Report to the Great Lakes Water Quality Board. [Windsor, Ontario], October 1981, 68 pp.

Dredging Subcommittee. *Guidelines and Register for Evaluation of Great Lakes Dredging Projects*. Report to the Water Quality Programs Committee of the Great Lakes Water Quality Board. [Windsor, Ontario], January 1982, 365 pp.

Water Quality Programs Committee, Petroleum Refinery Point Source Task Force. *A Review of the Pollution Abatement Programs Relating to the Petroleum Refinery Industry in the Great Lakes Basin*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, November 1982, 138 pp.

Surveillance Work Group. *Guidance on Characterization of Toxic Substances Problems in Areas of Concern in the Great Lakes Basin*. A Report to the Water Quality Board Based on Recommendations from the Monitoring in Areas of Concern Workshop held at Canada Centre for Inland Waters, October 3-4, 1985. Windsor, Ontario, March 1987, 179 pp.

Dredging Subcommittee. *A Forum to Review Confined Disposal Facilities for Dredged Materials in the Great Lakes*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, October 1986, 97 pp.

Dredging Subcommittee. *Evaluation of Sediment Bioassessment Techniques*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, October 1986, 123 pp.

Toxic Substances Committee, Task Force on Chemical Loadings. *Report on Modeling the Loading-Concentration Relationship for Critical Pollutants in the Great Lakes*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, October 1988, 275 pp.

Sediment Subcommittee and Remedial Options Work Group. *Options for the Remediation of Contaminated Sediments in the Great Lakes*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, December 1988, 78 pp.

Sediment Subcommittee and Assessment Work Group. *Procedures for the Assessment of Contaminated Sediments in the Great Lakes*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, December 1988, 140 pp.

A Review of Lake Ontario Water Quality with Emphasis on the 1981-1982 Intensive Years. Report to the Surveillance Subcommittee of the Great Lakes Water Quality Board. Robert J. Stevens, ed. [Windsor, Ontario], October 1988, 300 pp.

Surveillance Work Group, Atmospheric Deposition Monitoring Task Force. *A Plan for Assessing Atmospheric Deposition to the Great Lakes*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, July 1988, 90 pp.

Surveillance Work Group, Atmospheric Deposition Monitoring Task Force. *Summary Report: A Plan for Assessing Atmospheric Deposition to the Great Lakes*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, July 1988, 35 pp.

A Review of Lake Superior Water Quality with Emphasis on the 1983 Intensive Survey. Report to the Surveillance Subcommittee of the Great Lakes Water Quality Board. M.A. Zarull and C.J. Edwards, eds. Windsor, Ontario, March 1990, 220 pp.

Municipal Pretreatment Task Force. *A Review of Pretreatment Programs at Municipal Sewage Treatment Plants in the Great Lakes*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, March 1990, 137 pp.

Sediment Work Group. *Register of Great Lakes Dredging Projects 1980 - 1984*. Report to the Great Lakes Water Quality Board. Windsor, Ontario, July 1990, 209 pp.

Sediment Work Group. *Register of Great Lakes Dredging Projects 1985 - 1989*. WP5.0. Document available only in 3-1/2" or 5-1/4" IBM compatible floppy disk. [Windsor, Ontario], June 1991.

Great Lakes Water Quality Board. *Review and Evaluation of the Great Lakes RAP Remedial Action Program 1991*. Report to the International Joint Commission. [Windsor, Ontario], June 1991, 47 pp.

International Joint Commission, Virtual Elimination Task Force. *Persistent Toxic Substances: Virtually Eliminating Inputs to the Great Lakes*. Interim report. Windsor, Ontario, July 1991, 42 pp.

The Control of Discharges of Toxic Pollutants into the Great Lakes and Their Tributaries: Development of Benchmarks. Report to the International Joint Commission by Jeffery A. Foran. [Windsor, Ontario], 1991, 47 pp.

Proceedings

Great Lakes Surveillance and Monitoring, Proceedings of a Workshop held in Windsor, Ontario, January 20-21, 1976. Sponsored by the Surveillance Subcommittee of the Great Lakes Water Quality Board. N. Gibson MacDonald, ed. Windsor, Ontario, March 1977, 136 pp.

Workshop on Hazard Assessment, Proceedings of a Workshop held in Ann Arbor, Michigan, April 9-11, 1979. Sponsored by the Great Lakes Water Quality Board of the International Joint Commission. M.P. Bratzel, Jr., ed. Windsor, Ontario, December 1979, 265 pp.

Proceedings of the Workshop on IN VITRO Assessment of Contaminated Sediments for Potential Carcinogenic-

ity. Sponsored by the Great Lakes Water Quality Board of the International Joint Commission and by the U.S. Environmental Protection Agency. Michael J. Mac, ed. Windsor, Ontario, January 1989, 46 pp.

Proceedings of the Technology Transfer Symposium for the Remediation of Contaminated Sediments in the Great Lakes Basin, held in Burlington, Ontario, October 1988. Report to the Sediment Subcommittee of the Great Lakes Water Quality Board. Michael A. Zarull, ed. Windsor, Ontario, March 1990, 180 pp.

Proceedings of the Mass 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.

Stage 2 Remedial Action Plans: Content and Key Issues. A report of the Stage 2 RAP Workshop Steering Committee. Based on a workshop sponsored by the IJC's Water Quality Board, USEPA and Environment Canada, held on April 15-16, 1991 in Romulus, Michigan. [Windsor, Ontario], 1991, 32 pp.

Summary of the Remedial Action Plan Forum. Based on a workshop held in conjunction with the IJC's 1991 Biennial Meeting, September 27-28 in Traverse City, Michigan. [Windsor, Ontario], 1992, 10 pp.

Docket 200: Great Lakes Science Advisory Board

The Agreement also established the Great Lakes Science Advisory Board, which provides advice on research to the Commission and to the Great Lakes Water Quality Board. It also provides advice on scientific matters referred to it by the Commission, or by the Great Lakes Water Quality Board in consultation with the Commission.

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 promi-

nence in their field of study, and participate as individuals regardless of agency, academic or industrial affiliation.

Annual / Biennial Reports

Great Lakes Research Advisory Board. *Semi-annual Report to the International Joint Commission*. [Windsor, Ontario], April 1973, vp.

Great Lakes Research Advisory Board. *Semi-annual Report to the International Joint Commission*. [Windsor, Ontario], September 1973, vp.

Great Lakes Research Advisory Board. *Third Semi-annual Report to the International Joint Commission*. [Windsor, Ontario], April 1974, 81 pp.

Great Lakes Research Advisory Board. *Fourth Semi-annual Report to the International Joint Commission*. [Windsor, Ontario], October 1974, 16 pp.

Great Lakes Research Advisory Board. *Annual Report to the International Joint Commission*. [Windsor, Ontario], July 1975, 64 pp.

Great Lakes Research Advisory Board. *Annual Report to the International Joint Commission*. [Windsor, Ontario], July 1976, 23 pp.

Great Lakes Research Advisory Board. *Annual Report to the International Joint Commission*. [Windsor, Ontario], July 1977, 45 pp.

Great Lakes Research Advisory Board. *Annual Report to the International Joint Commission*. Windsor, Ontario, July 1978, 64 pp.

NOTE: In November 1978, the Research Advisory Board was renamed the Science Advisory Board

Science Advisory Board. *Annual Report to the International Joint Commission*. Windsor, Ontario, July 1979, 109 pp.

Great Lakes Science Advisory Board. *1980 Annual Report to the International Joint Commission: A Perspective on the*

Problem of Hazardous Substances in the Great Lakes Basin Ecosystem. [Windsor, Ontario], November 1980, 70 pp.

Great Lakes Science Advisory Board. *1980 Annual Report to the International Joint Commission: A Perspective on the Problems of Hazardous Substances in the Great Lakes Basin Ecosystem.* Appendix - Background Reports. [Windsor, Ontario], November 1980, vp.

Great Lakes Science Advisory Board. *1980 Annual Report to the International Joint Commission. Appendix A & B: Assessment of Airborne Contaminants in the Great Lakes Basin Ecosystem.* [Windsor, Ontario], June 1981, vp.

Great Lakes Science Advisory Board. *1981 Annual Report to the International Joint Commission.* [Windsor, Ontario], November 1981, 46 pp.

Great Lakes Science Advisory Board. *1982 Annual Report: Great Lakes Research Review.* Windsor, Ontario, November 1982, 66 pp.

Great Lakes Science Advisory Board. *Appendices to 1982 Annual Report: Great Lakes Research Review.* Windsor, Ontario, November 1982, 270 pp.

Great Lakes Science Advisory Board. *1983 Annual Report to the International Joint Commission.* Windsor, Ontario, November 1983, 36 pp.

Great Lakes Science Advisory Board. *1985 Annual Report to the International Joint Commission.* [Windsor, Ontario], June 1985, 40 pp.

Conseil consultatif scientifique des Grands lacs. *Rapport annuel pour 1985 à la Commission mixte internationale.* [Windsor, Ontario], avril 1985, 49 pp.

Great Lakes Science Advisory Board. *1987 Report to the International Joint Commission.* [Windsor, Ontario], November 1987, 78 pp.

Conseil consultatif scientifique des Grands lacs. *Rapport 1987 à la Commission mixte internationale.* [Windsor, Ontario], novembre 1987, 77 pp.

Great Lakes Science Advisory Board. *1989 Report to the International Joint Commission.* [Windsor, Ontario], October 1989, 104 pp.

Great Lakes Science Advisory Board. *1991 Report to the International Joint Commission.* Windsor, Ontario, September 1991, 140 pp.

Special Reports

Great Lakes Research Advisory Board. *Asbestos in the Great Lakes Basin with Emphasis on Lake Superior.* A Report to the International Joint Commission. [Windsor, Ontario], February 1975, vp.

Great Lakes Research Advisory Board. *1975 Directory of Great Lakes Research Activities.* [Windsor, Ontario], February 1975, 747 pp.

Great Lakes Research Advisory Board. *1976 Directory of Great Lakes Research and Related Activities.* D.E. Konasewich, ed. [Windsor, Ontario], January 1976, 506 pp.

Great Lakes Research Advisory Board. *Great Lakes Water Quality Research Needs, A Report to the International Joint Commission.* [Windsor, Ontario], July 1976, 121 pp.

Task Force on the Health Implications of Nitrilotriacetic Acid. *Report to the Great Lakes Research Advisory Board on the Health Implications of NTA.* [Windsor, Ontario], May 1977, 59 pp.

Great Lakes Research Advisory Board. *The Ecosystem Approach: Scope and Implications of an Ecosystem Approach to Transboundary Problems in the Great Lakes Basin, Special Report to the International Joint Commission.* Windsor, Ontario, July 1978, 47 pp.

Task Force on Ecological Effects of Non-Phosphate Detergent Builders. *Report to the Great Lakes Research Advisory Board of the International Joint Commission on the Ecological Effects of Non-Phosphate Detergent Builders, Final Report on NTA.* [Windsor, Ontario], December 1978, 91 pp.

Great Lakes Research Advisory Board. *Canada-United States Research Programs Pertinent to the Water Quality of the Great Lakes, A Report to the International Joint Commission.* Windsor, Ontario, July 1978, 107 pp.

Task Force on the Health Effects of Non-NTA Detergent Builders. *Report on the Health Implications of Non-NTA Detergent Builders.* Windsor, Ontario, October 1980, 78 pp. [Revised March 1981]

Task Force on Ecological Effects of Non-Phosphate Detergent Builders. *Report on Ecological Effects of Non-Phosphate Detergent Builders, Final Report on Organic Builders Other Than NTA.* [Windsor, Ontario], July 1980, 83 pp.

Aquatic Ecosystem Objectives Committee. *Report to the Great Lakes Science Advisory Board.* [Windsor, Ontario], November 1980, 127 pp.

Aquatic Ecosystem Objectives Committee. *Report to the Great Lakes Science Advisory Board.* [Windsor, Ontario], November 1981, 48 pp.

Expert Committee on Engineering and Technological Aspects of Great Lakes Water Quality. *Biological Availability of Phosphorus.* Report to the Great Lakes Science Advisory Board. [Windsor, Ontario], November 1981, 30 pp.

Great Lakes Science Advisory Board. *Environmental Implications of Alternative Energy Futures for the Great Lakes Basin.* Report to the International Joint Commission. [Windsor, Ontario], March 1982, 171 pp.

Aquatic Ecosystem Objectives Committee. *Report to the Great Lakes Science Advisory Board.* [Windsor, Ontario], November 1982, 31 pp.

Task Force on Ecological Effects of Non-Phosphate Detergent Builders. *Ecological Effects of Non-Phosphate Detergent Builders, Final Report on Inorganic Builders to the Great Lakes Science Advisory Board.* [Windsor, Ontario], November 1983, 41 pp.

Aquatic Ecosystem Objectives Committee. *Report to the Great Lakes Science Advisory Board*. Windsor, Ontario, November 1983, 69 pp.

Multi-Institutional Management: The Green Bay Experience. Presented to the Social and Economic Considerations Committee of the Great Lakes Science Advisory Board by C. Jarrell Yarbrough. [Windsor, Ontario], March 1985, 87 pp.

Working Group on Indicators of Ecosystem Quality. *A Conceptual Approach for the Application of Biological Indicators of Ecosystem Quality in the Great Lakes Basin*. A Joint Effort of the International Joint Commission and the Great Lakes Fishery Commission. Report to the Great Lakes Science Advisory Board. R.A. Ryder and C.J. Edwards, eds. Windsor, Ontario, March 1985, 169 pp.

Aquatic Ecosystem Objectives Committee. *1985 Annual Report to the Great Lakes Science Advisory Board*. Windsor, Ontario, February 1986, 119 pp.

Groundwater Contamination Task Force. *A Study Proposal for Assessing the Potential for Great Lakes Contamination via Groundwater*. Report to the Great Lakes Science Advisory Board. Windsor, Ontario, October 1985, 67 pp.

Modeling Task Force. *Uses, Abuses, and Future of Great Lakes Modeling*. Report to the Great Lakes Science Advisory Board. Windsor, Ontario, February 1986, 95 pp.

Health of Aquatic Communities Task Force. *Literature Review of the Effects of Persistent Toxic Substances on Great Lakes Biota*. Report to the Great Lakes Science Advisory Board by J. Fitchko. Windsor, Ontario, December 1986, 256 pp.

Great Lakes Science Advisory Board. *Directory of Great Lakes Education Material*. First edition. [Windsor, Ontario], March 1987, 78 pp.

An Overview of Contaminated Sediments in the Great Lakes With Special Reference to the International Workshop held at Aberystwyth, Wales, U.K. Report to the Great Lakes Science Advisory Board by T.B. Reynoldson, A. Mudroch and C.J. Edwards. Windsor, Ontario, February 1988, 41 pp.

Aquatic Ecosystem Objectives Committee. *1987 Report to the Great Lakes Science Advisory Board*. [Windsor, Ontario], March 1988, 51 pp.

Great Lakes Science Advisory Board. *Directory of Great Lakes Education Material*. Second edition. Windsor, Ontario, March 1988, 78 pp.

Review of the Research Advisory Board/ Science Advisory Board Recommendations and Supporting Reports with IJC and Government Responses 1973 through 1985. Report to the Great Lakes Science Advisory Board by C.J. Edwards. [Windsor, Ontario], March 1988, 103 pp.

Remedial Action Plan Research Needs. Report to the Great Lakes Science Advisory Board by C.B. Gray and D. Rathke. Windsor, Ontario, October 1988, 33 pp.

Toward an Ethic for the Great Lakes Basin Ecosystem. A Discussion Paper Prepared for the Societal Committee of the Great Lakes Science Advisory Board by Jame Schaefer. Windsor, Ontario, November 1989, 28 pp.

Great Lakes Science Advisory Board. *Directory of Great Lakes Education Material*. Third Edition. Windsor, Ontario, December 1989, 77 pp.

Ecosystem Objectives Committee. *Final Report to the Great Lakes Science Advisory Board*. Windsor, Ontario, released March 1990, 58 pp.

Integrated Pest Management in the Great Lakes Basin Ecosystem: A Review and Evaluation of Agricultural Programs. Prepared for the Great Lakes Science Advisory Board by Jeremy L. Higham. Windsor, Ontario, June 1990, 91 pp.

Technological Committee. *Technology for Reducing Organo-chlorines in Pulp Mill Effluents*. Report to the Great Lakes Science Advisory Board. Prepared by Paul Earl. Windsor, 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.

Proceedings

Cladophora in the Great Lakes, Proceedings of a Workshop held in Windsor, Ontario, February 19-21, 1975. Sponsored by the Great Lakes Research Advisory Board Standing Committee on Eutrophication. H. Shear and D.E. Konasewich, eds. Windsor, Ontario, 1975, 179 pp.

The Feasibility of Remote Tracking of Drogues and Other Instruments Drifting in Coastal Waters, Proceedings of a Workshop held in Windsor, Ontario, February 24-25, 1975. Sponsored by the Research Advisory Board Standing Committee on Lake Dynamics. A.E.P. Watson, ed. Windsor, Ontario, 1975, vp.

Structure-Activity Correlations in Studies of Toxicity and Bioconcentration with Aquatic Organisms, Proceedings of a Symposium held in Burlington, Ontario, March 11-13, 1975. Sponsored by the Research Advisory Board Standing Committee on the Scientific Basis for Water Quality Criteria. G. D. Veith and D. E. Konasewich, eds. [Windsor, Ontario], 1975, 347 pp.

Proceedings of a Workshop on Public Participation held in Ann Arbor, Michigan, June 23-24, 1975. Sponsored by the Research Advisory Board Standing Committee on Social Sciences, Economics and Legal Aspects. P.A. Bonner and R. Shimizu, eds. [Windsor, Ontario], 1975, 108 pp.

Toxicity to Biota of Metal Forms in Natural Water, Proceedings of a Workshop held in Duluth, Minnesota, October 7-8, 1975. Sponsored by the Research Advisory Board Standing Committee on the Scientific Basis for Water Quality Criteria. R.W. Andrew, P.V. Hodson and D.E. Konasewich, eds. [Windsor, Ontario], April 1976, 329 pp.

The Dynamics of Stratification and of Stratified Flow in Large Lakes, Proceedings of a Workshop held in Windsor, Ontario, February 26, 1976. Sponsored by the Research Advisory Board Standing Committee on Lake Dynamics. A. E. P. Watson, ed. Windsor, Ontario, 1976, 199 pp.

Proceedings of a Workshop on the Fluvial Transport of Sediment-Associated Nutrients and Contaminants held in Kitchener, Ontario, October 20-22, 1976. Sponsored by the Research Advisory Board on Behalf of the Pollution from Land Use Activities Reference Group. H. Shear and A.E.P. Watson, eds. [Windsor, Ontario], 1977, 309 pp.

Workshop on Environmental Mapping of the Great Lakes, Proceedings of a Symposium held in Windsor, Ontario, November 8-10, 1976. Sponsored by the Research Advisory Board Scientific Basis for Water Quality Criteria Task Force. D.R. Rosenberger and A. Robertson, eds. [Windsor, Ontario], 1977, 224 pp.

Economic and Legal Mechanisms, Proceedings of a Workshop held in Windsor, Ontario, February 21-22, 1977. Sponsored by the Great Lakes Research Advisory Board Standing Committee on Social Sciences, Economic and Legal Aspects. P.A. Bonner, ed. Windsor, Ontario, October 1977, 302 pp.

Anticipatory Planning for the Great Lakes, Workshop held in Windsor, Ontario, March 5-7, 1979. Vol. I: Summary. Sponsored by the Great Lakes Science Advisory Board Societal Aspects Experts Committee. Windsor, Ontario, December 1979, 73 pp.

Anticipatory Planning for the Great Lakes, Workshop held in Windsor, Ontario, March 5-7, 1979. Vol. II: Workshop Work Group Reports. Sponsored by the Great Lakes Science Advisory Board Societal Aspects Expert Committee. Windsor, Ontario, February 1980, 194 pp.

Rehabilitation of Lake Ontario: The Role of Nutrient Reduction and Food Web Dynamics, Burlington, Ontario, February 26-27, 1987. Based on conclusions and recommendations from Food Web II Workshop. Sponsored by the Great Lakes Science Advisory Board. [Windsor, Ontario], March 1988, 75 pp.

PCBs: A Case Study, Proceedings of a Workshop on Great Lakes Coordination Research held November 1985. Report to the Great Lakes Science Advisory Board by the Council of Great Lakes Research Managers. Windsor, Ontario, February 1988, 113 pp.

Spills: The Human-Machine Interface, Proceedings of the Workshops on Human Machine Interface held in 1986 and 1987. Sponsored by the Great Lakes Science Advisory Board, Technological Committee. Windsor, Ontario, June 1988, 122 pp.

Proceedings of the Workshop on Cause-Effect Linkages held March 1989. Report of the Council of Great Lakes Research Managers to the Great Lakes Science Advisory Board. Windsor, Ontario, March 1989, 51 pp.

Public Participation and Remedial Action Plans: An Overview of Approaches, Activities and Issues Arising from RAP Coordinator's Forums. Report of the Societal Committee of the Great Lakes Science Advisory Board. Windsor, Ontario, January 1990, 37 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. Clayton J. Edwards and Henry A. Regier, eds. Ann Arbor, Michigan, July 1990, 300 pp. (Great Lakes Fishery Commission Special Publication 90-4)

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

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

Proceedings of the Expert Consultation Meeting on Bald Eagles, February 12-13, 1990, Windsor, Ontario. Report of the Ecological Committee's Biological Effects Subcommittee to the Science Advisory Board. David A. Best, Michael Gilbertson and Holly Hudson, eds. [Windsor, Ontario], 1991, 33 pp.

Council of Great Lakes Research Managers. *A Proposed Framework for Developing Indicators of Ecosystem Health for the Great Lakes Region.* Report to the International Joint Commission. [Windsor, Ontario], July 1991, 50 pp.

Council of Great Lakes Research Managers. *Great Lakes-St. Lawrence Research Inventory 1990/1991, Summary Report, September 1991.* [Windsor, Ontario]. (in preparation)

Proceedings of the Expert Consultation Meeting on Mink and Otter, Windsor, Ontario, March 5-6, 1991. Sponsored by Environment Canada and Ontario Ministry of Natural Resources, hosted by the International Joint Commission. Ed Addison, Glen Fox and Michael Gilbertson, eds. [Windsor, Ontario], 1991, 26 pp.

Joint Reports: Great Lakes Water Quality Board and Great Lakes Science Advisory Board

Annual / Biennial Reports

1980 Annual Report of the Committee on the Assessment of Human Health Effects of Great Lakes Water Quality. Report to the Great Lakes Water Quality Board and the Great Lakes Science Advisory Board. [Windsor, Ontario], November 1980, 34 pp.

1981 Annual Report of the Committee on the Assessment of Human Health Effects of Great Lakes Water Quality. Report to the Great Lakes Water Quality Board and the Great Lakes Science Advisory Board. [Windsor, Ontario], November 1981, 142 pp.

1982 Annual Report of the Committee on the Assessment of Human Health Effects of Great Lakes Water Quality. Report to the Great Lakes Water Quality Board and the Great Lakes Science Advisory Board. Windsor, Ontario, November 1982, 88 pp.

1983 Annual Report of the Committee on the Assessment of Human Health Effects of Great Lakes Water Quality. Report to the Great Lakes Water Quality Board and the Great Lakes Science Advisory Board. Windsor, Ontario, November 1983, 34 pp.

1985 Annual Report of the Committee on the Assessment of Human Health Effects of Great Lakes Water Quality. Report to the Great Lakes Water Quality Board and the Great Lakes Science Advisory Board. Windsor, Ontario, revision October 1986, 111 pp.

Special Reports

Phosphorus Management Strategies Task Force. *Phosphorus Management for the Great Lakes.* Final Report to the Great Lakes Water Quality Board and Great Lakes Science Advisory Board. Windsor, Ontario, July 1980, 129 pp.

Mass Balancing of Toxic Chemicals in the Great Lakes: The Role of Atmospheric Deposition. Report to the Great Lakes Science Advisory Board, Great Lakes Water Quality Board and International Air Quality Advisory Board by W.M.J. Strachan and S.J. Eisenreich. Appendix I from the Workshop on the Estimation of Atmospheric Loadings of Toxic Chemicals to the Great Lakes basin held at Scarborough, Ontario, October 29-31, 1986. Windsor, Ontario, May 1988, 113 pp.

Proceedings

Proceedings of the Workshop on the Compatibility of Great Lakes Basin Cancer Registries held in Windsor, Ontario, March 19-20, 1981. Sponsored by the Great Lakes Water Quality Board and Great Lakes Science Advisory Board Through Their Committee on the Assessment of Human Health Effects of Great Lakes Water Quality. [Windsor, Ontario], November 1981, 118 pp.

Proceedings of the Roundtable on the Surveillance and Monitoring Requirements for Assessing Human Health Hazards Posed by Contaminants in the Great Lakes Basin Ecosystem held in East Lansing, Michigan, March 17-18, 1982. Sponsored by the Great Lakes Water Quality Board and Great Lakes Science Advisory Board Through Their Committee on the Assessment of Human Health Effects of Great Lakes Water Quality. Windsor, Ontario, November 1982, 72 pp.

Summary Report of the Workshop on Great Lakes Atmospheric Deposition, held October 29-31, 1986, Scarborough, Ontario. Sponsored by the Great Lakes Science Advisory Board, Great Lakes Water Quality Board and International Air Quality Advisory Board. Windsor, Ontario, October 1987, 41 pp.

Production, Usage and Atmospheric Emissions of 14 Priority Toxic Chemicals. Appendix 2 of the Proceedings of the Workshop on Great Lakes Atmospheric Deposition, October 29-31, 1986. Invited paper by E.C. Voldner and L. Smith. Report to the Great Lakes Water Quality, Great Lakes Science Advisory

and the International Air Quality Advisory Boards of the International Joint Commission. [Windsor, Ontario], 1991, 100 pp.

Proceedings of a Workshop on the Role of Epidemiology in Assessing the Effects of Great Lakes Water Quality on Human Health, March 1-3, 1988, Scarborough, Ontario. Sponsored by the Great Lakes Water Quality Board and Great Lakes Science Advisory Board through their Committee for the Assessment of Human Health Effects. [Windsor, Ontario], [March 1990], 30 pp.

DOCKET 94: International Reference Group on Upper Lakes Pollution

The Commission in 1972 formed a 14-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.

Annual Reports

International Reference Group on Upper Lakes Pollution. *Third Semi-annual Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], March 1974, 13 pp.

International Reference Group on Upper Lakes Pollution. *Fourth Semi-annual Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], September 1974, vp.

International Reference Group on Upper Lakes Pollution. *Fifth Progress Report to the International Joint Commission*. [Windsor, Ontario], July 1975, 97 pp.

Special Reports

International Reference Group on Upper Lakes Pollution. *Study of Pollution Problems of Lake Huron and Lake Superior: Program Review and Detailed Study Plan for 1974/75, A Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], February 1974 (Reprinted with addenda, November 1974), 197 pp.

Upper Lakes Reference Group. *The Waters of Lake Huron and Lake Superior, A Report to the International Joint Commission*. Windsor, Ontario.

Vol. I *Summary and Recommendations*. 1976, vp.

Vol. II Part A *Lake Huron, Georgian Bay, and the North Channel*. 1977, vp.

Vol. II Part B *Lake Huron, Georgian Bay, and the North Channel*. 1977, vp.

Vol. III Part A *Lake Superior*. 1977, vp.

Vol. III Part B *Lake Superior*. 1977, vp.

Docket 95: 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 18-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 use 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

Reference Group on Great Lakes Pollution from Land Use Activities (Land Drainage Reference Group). *First Progress Report to the International Joint Commission*. [Windsor, Ontario], April 1973, 14 pp.

Reference Group on Great Lakes Pollution from Land Use Activities (Land Drainage Reference Group). *Second Progress Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], September 1973, 20 pp.

International Reference Group on Great Lakes Pollution from Land Use Activities (Land Use Activities Reference Group). *Third Progress Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], February 1974, 17 pp.

International Reference Group on Great Lakes Pollution from Land Use Activities (Land Use Activities Reference Group). *Fourth Progress Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], August 1974, 37 pp.

International Reference Group on Great Lakes Pollution from Land Use Activities. *Progress Report to the Great Lakes Water Quality Board*. [Windsor, Ontario], March 1975, 24 pp.

International Reference Group on Great Lakes Pollution from Land Use Activities. *Annual Progress Report to the International Joint Commission*. [Windsor, Ontario], July 1975, 46 pp.

International Reference Group on Great Lakes Pollution from Land Use Activities. *Annual Progress Report to the International Joint Commission*. [Windsor, Ontario], July 1976, 64 pp.

International Reference Group on Great Lakes Pollution from Land Use Activities. *Annual Progress Report to the International Joint Commission*. [Windsor, Ontario], July 1977, 116 pp.

International Reference Group on Great Lakes Pollution from Land Use Activities. *Environmental Management Strategy for the Great Lakes System. Final Report to the International Joint Commission*. Windsor, Ontario, July 1978, 173 pp. (PLUARG 78-001)

Modelling Reports

Drynan, W.R. and M.J. Davis. *Application of the Universal Soil Loss Equation to the Estimation of Nonpoint Sources of Pollutant Loadings to the Great Lakes*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], July 1978, vp. (PLUARG 78-003)

Drynan, W.R. *Relative Costs of Achieving Various Levels of Phosphorus Control at Municipal Wastewater Treatment Plants in the Great Lakes Basin*. Technical Report to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], July 1978, vp. (PLUARG 78-004)

Johnson, Murray G. et al. *Management Information Base and Overview Modeling*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], August 1978, 90 pp. (PLUARG 78-002)

Marsalek, J. *Pollution Due to Urban Runoff: Unit Loads and Abatement Measures*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], October 1978, 37 pp. (PLUARG 78-005)

Heidtke, Thomas M., William C. Sonzogni and Timothy J. Monteith. *Management Information Base and Overview Modeling: Update of Projected Pollutant Loadings to the Great Lakes*. Submitted to the International

Reference Group on Great Lakes Pollution from Land Use Activities. April 1979, 38 pp. (PLUARG 79-002) [Unpublished]

Workshop Proceedings

Proceedings of a Workshop on Water Quality and Land Use Activities held at Guelph, Ontario, September 11-12, 1973. Sponsored by the International Reference Group on Great Lakes Pollution from Land Use Activities. J.D. Wiebe, ed. [Windsor, Ontario], 1974, 248 pp. (PLUARG 74-006)

Proceedings of the Sandusky River Basin Symposium held at Tiffin, Ohio, May 2-3, 1975. Cosponsored by the Heidelberg College and Bowling Green State University. D.B. Baker, W.B. Jackson and B.L. Prater, eds. Windsor, Ontario, 1975, 475 pp. (PLUARG 75-007)

Proceedings of a Workshop on the Fluvial Transport of Sediment-Associated Nutrients and Contaminants held in Kitchener, Ontario, October 20-22, 1976. Sponsored by the Research Advisory Board on Behalf of the International Reference Group on Great Lakes Pollution from Land Use Activities. H. Shear and A.E.P. Watson, eds. [Windsor, Ontario], 1977, 309 pp. (PLUARG 77-008)

Task 'A' Reports

International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group A (U.S. Section). *Management Programs, Research and Effects of Present Land Use Activities on Water Quality of the Great Lakes*. 2 Vols. [Windsor, Ontario], November 1974. [Reprinted August 1976]. (PLUARG 74-010)

International Reference Group on Great Lakes Pollution from Land Use Activities. *Summary Review of Pollution from Land Use Activities*. Submitted to the International Joint Commission. Windsor, Ontario, July 1975, 66 pp. [Reprinted September 1976]. (PLUARG 75-009)

Marshall Macklin Monaghan Ltd. *Evaluation of Remedial Measures to Control Non-point Sources of Water Pollution in the Great Lakes Basin*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group A. [Windsor, Ontario], October 1977. (PLUARG 77-014)

Castrilli, J.F. *Control of Water Pollution from Land Use Activities in the Canadian Great Lakes Basin: An Evaluation of Legislative, Regulatory and Administrative Programs*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group A (Canadian Section). [Windsor, Ontario], 1977. (A separate document [61 pp.] containing only the first chapter of this report is also available). (PLUARG 77-013)

Statistical Reporting Services. *Survey of U.S. Great Lakes Basin Farmers Regarding Water Pollution from Agricultural Activities*. Analysis by Elizabeth C. Powers and Eugene A. Jarecki. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group A (U.S. Section). [Windsor, Ontario], November 1977, 33 pp. (PLUARG 77-016)

Castrilli, J.F. and A.J. Dines. *Control of Water Pollution from Land Use Activities in the Great Lakes Basin: An Evaluation of Legislative and Administrative Programs in Canada and the United States, Joint Summary Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group A. [Windsor, Ontario], March 1978, 109 pp. (PLUARG 78-011)

Linton and Co., Inc. *The Legislative and Institutional Framework to Control Pollution from Land Use Activities in the United States Great Lakes Basins*. 3 Vols. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group A by Linton and Co., Inc. under contract to the Great Lakes Basin Commission. [Windsor, Ontario]. (PLUARG 78-012).

Vol. 1 Summary Report: A Comparative Analysis, Federal Framework. April 1978, vp.

Vol. 2 States of Illinois, Indiana, Michigan and Minnesota. November 1977, vp.

Vol. 3 States of New York, Ohio, Pennsylvania and Wisconsin. November 1977, vp.

(A separate report containing only the Summary Report (April 1978) is also available).

Reports of the United States Public Consultation Panels to the Pollution from Land Use Activities Reference Group. [Windsor, Ontario], March 1978. (PLUARG 78-018)

Reports of the Canadian Public Consultation Panels to the Pollution from Land Use Activities Reference Group. Windsor, Ontario, March 1978. (PLUARG 78-019)

Skimin, William E., Elizabeth C. Powers and Eugene A. Jarecki. *An Evaluation of Alternatives and Costs for Nonpoint Source Controls in the United States Great Lakes Basin.* Technical Report of the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], July 1978, 351 pp. (PLUARG 78-015)

Bangay, Garth E. *Agriculture and Water Pollution - An Assessment of the Practices and Attitudes of Ontario Farmers.* Submitted to the International Reference Group on Pollution from Land Use Activities, Task Group A. [Windsor, Ontario], February 1979, vp. (PLUARG 79-017)

Task 'B' Reports

Crysler, Ralph and Keith Lathem. *Mine Tailing Disposal Sites, Waste Disposal Sites, Non-Sewered Residential Areas and Land Fill Sites.* Land Drainage Reference Study, Task B2. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Windsor, Ontario. 1974. (Unpublished) (PLUARG 74-020)

Gierman, David M. and Robert A. Ryerson. *Land Use Information for the Great Lakes Basin.* 2 Vols. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Technical Committee B. 1974. (Unpublished) (PLUARG 74-022)

Sonnen, C.A. and P.M. Jacobson. *Estimates of Economic Activity in Regions of the Canadian Great Lakes Basin for the Period 1972-2020. Series A, Volume II.* Contribution to the International Reference Group on Great Lakes Pollution from Land Use Activities and the Upper Lakes Reference Group. December 1974, 35 pp. (PLUARG 74-036 AI)

L.J. D'Amore & Associates Ltd. *Social, Institutional and Technological Trends and Synergisms Affecting Water Resources Quality in the Canadian Portion of the Great Lakes Basin.* Contribution to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B-5 and the Upper Lakes Reference Group, Working Group A, Study Item IV. July 1975, 71 pp. (Unpublished) (PLUARG 75-035S)

L.J. D'Amore & Associates Ltd. *The Knowledge Base.* Appendix to report entitled *Social, Institutional and Technological Trends and Synergisms Affecting Water Resources Quality in the Canadian Portion of the Great Lakes Basin.* July 1975, 180 pp. (Unpublished). (PLUARG 75-035K)

Doneth, John. *Materials Usage in the U.S. Great Lakes Basin.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B (U.S. Section). September 1975, 319 pp. (PLUARG 75-021)

Muir, Tom. *Commercial-Industrial Land Use Projections.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B-5, Land Use Forecast. January 1976, 11 pp. (Unpublished) (PLUARG 76-029)

Great Lakes Basin Commission. *Inventory of Land Use and Land Use Practices in the United States Great Lakes Basin with Emphasis on Certain Trends and Projections to 1980, and Where Appropriate, to 2020.* 6 Vols. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B (U.S. Section). [Windsor, Ontario], 1976. (PLUARG 76-024)

Vol. 1 Great Lakes Basin
March 1976, 146 pp.
Vol. 2 Lake Superior Basin
March 1976, 214 pp.
Vol. 3 Lake Michigan Basin
April 1976, 408 pp.
Vol. 4 Lake Huron Basin
April 1976, 188 pp.
Vol. 5 Lake Erie Basin
May 1976, 295 pp.
Vol. 6 Lake Ontario Basin
May 1976, 226 pp.

Deutscher, P. *The Usage of Biocides, Fertilizers, and Road Salts in the Great Lakes Basin: Projections to 2020.* Submitted to International Reference Group on Great Lakes Pollution from Land Use Activities, Task B-5 Land Use Forecasts. May 1976, np. (Unpublished) (PLUARG 76-027)

Sudar, A. *The Social and Economic Implications of Eutrophication in the Canadian Great Lakes Basin.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B. January 1978, 29 pp. (Unpublished Draft) (PLUARG 78-028)

Deutscher, Patrick. *The Path of Ontario Agriculture: Land Use Projections to 2020.* Prepared for the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B-5, Land Use Forecasts. May 1976, 84 pp. (Unpublished Draft) (PLUARG 76-032)

Sudar, Anne. *Urban Land Use Forecasts.* Prepared for the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B-5, Land Use Forecasts. May 1976, 46 pp. (Unpublished) (PLUARG 76-030)

Sudar, A. and P. Deutscher. *Land Use Change in the Canadian Great Lakes Basin, 1971-2020*. Prepared for the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B-5, Land Use Forecasts. May 1976, 46 pp. (Unpublished) (PLUARG 76-034)

Coleman, Dell E. *Ontario Recreation: A Forecast to 2020*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B-5. December 1976, 72 pp. (Unpublished) (PLUARG 76-033)

Monteith, Timothy J. and Eugene A. Jarecki. *Land Cover Analysis for the United States Great Lakes Watersheds*. Technical Report of the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B. [Windsor, Ontario], May 1978, 53 pp. (PLUARG 78-026)

International Reference Group on Great Lakes Pollution from Land Use Activities. *Land Use and Land Use Practices in the Great Lakes Basin, Joint Summary Report - Task B, (United States and Canada)*. [Windsor, Ontario], September 1977, 45 pp. (PLUARG 77-023)

Inventory of Land Use and Land Use Practices in the Canadian Great Lakes Basin with Emphasis on Certain Trends and Projections to 1980, and Where Appropriate, to 2020. 5 Vols. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group B (Canadian Section). [Windsor, Ontario], 1977. (PLUARG 77-025)

Vol. 1 Canadian Great Lakes Basin
December 1977, 125 pp. Summary

Vol. 2 Canadian Lake Superior Basin
December 1977, 55 pp.

Vol. 3 Canadian Lake Huron Basin
December 1977, 93 pp.

Vol. 4 Canadian Lake Erie Basin
December 1977, 75 pp.

Vol. 5 Canadian Lake Ontario Basin
December 1977, 85 pp.

Task 'C' Reports

Coote, D.R. et al. *Agricultural Land Uses, Livestock and Soils of the Canadian Great Lakes Basin (South of Latitude 45 Degrees N), A Report of the Activities of the Engineering Research Service and the Soil Research Institute as Part of Agriculture Canada's Contribution to the Implementation of the Great Lakes Water Quality Agreement, 1973-1974*. Prepared in part for the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section). June 1974, 133 pp. (Unpublished) (PLUARG 74-086)

International Reference Group on Great Lakes Pollution from Land Use Activities. *Quality Control Handbook for Pilot Watershed Studies*. D.M. Whitt, ed. Windsor, Ontario, July 1975 (Revised March 1977), np. (PLUARG 75-081)

Onn, Dennis. *Point Source Studies*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 4. November 1976, 3 pp. (Unpublished) (PLUARG 76-083)

Bodo, B. *Loadings and Parameter-Flow Relationships*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activities 1, 3 and 4. 1976, 27 pp. (Unpublished) (PLUARG 76-084)

Avadhanula, M. Rao. *Water Quality Studies, Fall Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activities 1, 3 and 4. November 1976, 24 pp. (Unpublished) (PLUARG 76-085)

Hynes, H.B. and K.W. Dance. *Comparative Nutrient Budget of the Two Branches of Canagagigue Creek*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, Project 19, Part B. [Windsor, Ontario], February 1977, 42 pp. (PLUARG 77-066)

Frank, Richard and Brian D. Ripley. *Land Use Activities in Eleven Agricultural Watersheds in Southern Ontario, Canada, 1975-1976*. Prepared for the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1. [Windsor, Ontario], March 1977, 176 pp. (PLUARG 77-053)

Veska, Eric. *Geochemistry and Hydrogeology of Agriculture Watershed No. 10, and Their Influence on the Chemical Composition of Water and Sediments*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Project 23. [Windsor, Ontario], August 1977, 119 pp. (PLUARG 77-075)

Sanderson, M. *Agricultural Watershed Studies, Great Lakes Drainage Basin. Precipitation - Quantity and Quality*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1. [Windsor, Ontario], September 1977, 137 pp. (PLUARG 77-051)

Cameron, D.R. et al. *Nitrogen Movement in Tile-Drained Clay and Sandy Agricultural Watersheds: Final Report on Project 13 Agricultural Watershed Studies*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Project 13. [Windsor, Ontario], October 1977, 97 pp. (PLUARG 77-055)

Beak Consultants Ltd. *Effects of Livestock Activity on Surface Water Quality, Final Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Project 20. [Windsor, Ontario], November 1977. (PLUARG 77-061)

Nicholson, J.A. *Forested Watershed Studies, Summary Technical Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, Activity 2. [Windsor, Ontario], December 1977, 23 pp. (PLUARG 77-049)

- Burton, Thomas M. *The Felton-Herron Creek, Mill Creek Pilot Watershed Studies*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C - Pilot Watershed Program. Great Lakes National Program Office, Chicago, Illinois, 1978, 214 pp. (PLUARG 78-039)
- Frank, Richard *et al.* *Stream Flow Quality - Pesticides in Eleven Agricultural Watersheds in Southern Ontario, Canada, 1974-1977*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1. [Windsor, Ontario], 1978, 174 pp. (PLUARG 78-052)
- Bahr, Thomas G. *Felton-Herron Creek, Mill Creek Pilot Watershed Studies, Summary Pilot Watershed Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C Technical Committee, Synthesis and Extrapolation Work Group. [Windsor, Ontario], January 1978, 48 pp. (PLUARG 78-038)
- Mildner, William F. *Streambank Erosion in the U.S. Portion of the Great Lakes Basin*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (U.S. Section), Activity 6. [Windsor, Ontario], January 1978, 45 pp. (PLUARG 78-077)
- Gillham, R.W. *et al.* *Studies of the Agricultural Contribution to Nitrate Enrichment of Groundwater and the Subsequent Loading to Surface Waters. Final Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, Activity 1, Project 14. [Windsor, Ontario], January 1978. (PLUARG 78-064)
- Konrad, John G., Gordon Chesters and Kurt W. Bauer. *Menomonee River Pilot Watershed Study, Summary Pilot Watershed Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (U.S. Section). [Windsor, Ontario], January 1978, 70 pp. (PLUARG 78-042)
- Ontario Ministry of the Environment. *Water Quality Data Collected for the Pollution from Land Use Activities Reference Group (PLUARG) Study 1975, 1976 and 1977*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, Windsor, Ontario, 1978, 500 pp. (PLUARG 78-048)
- Dube, D. *et al.* *Data Quality Assurance for Watershed and Land Use Studies*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C. [Windsor, Ontario], 1978, 33 pp. (PLUARG 78-082)
- Patni, N.K. and F.R. Hore. *Pollutant Transport to Subsurface and Surface Waters in an Integrated Farm Operation*. Report for the Period 1975-1977. [Windsor, Ontario], February 1978, 79 pp. (PLUARG Special Study No. 22) (PLUARG 78-063)
- Spires, A. and M.H. Miller. *Contribution of Phosphorus from Agricultural Land to Streams by Surface Runoff*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Project 18. [Windsor, Ontario], February 1978, 101 pp. (PLUARG 78-059)
- van Vliet, L.J.P., G.J. Wall and W.T. Dickinson. *Soil Erosion from Agricultural Land in the Canadian Great Lakes Basin. Combined Final Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Projects 16 and 17. [Windsor, Ontario], March 1978, 166 pp. (PLUARG 78-069)
- Miller, M.H. and A.C. Spires. *Contribution of Phosphorus to the Great Lakes from Agricultural Land in the Canadian Great Lakes Basin*. Phosphorus Integration Report. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1. [Windsor, Ontario], March 1978, 55 pp. (PLUARG 78-060)
- Robinson, J.B. and D.W. Draper. *A Model for Estimating Inputs to the Great Lakes from Livestock Enterprises in the Great Lakes Basin*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, Activity 1. [Windsor, Ontario], March 1978, 29 pp. (PLUARG 78-062)
- Hetling, Leo J. *et al.* *Genesee River Pilot Watershed Study, Summary Pilot Watershed Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C. [Windsor, Ontario], March 1978, 73 pp. (PLUARG 78-040)
- Whiteley, H.R. and S.R. Ghate. *Hydrological Model Project. Final Report*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Phase II, Project 1.15. [Windsor, Ontario], March 1978, 100 pp. (PLUARG 78-074)
- Gaynor, J.D. *Sources of Nutrient and Metals in Hillman Creek*. Technical Report to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section). [Windsor, Ontario], April 1978. (PLUARG 78-065)
- Wall, G.J., L.J.P. van Vliet and W.T. Dickinson. *Contribution of Sediments to the Great Lakes from Agricultural Activities in Ontario*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1. [Windsor, Ontario], April 1978, 41 pp. (PLUARG 78-068)
- Neilsen, G.H., J.L. Culley and D.R. Cameron. *Nitrogen Loadings from Agricultural Activities in the Great Lakes Basin*. Integration Report on Nitrogen. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1. [Windsor, Ontario], April 1978, 103 pp. (PLUARG 78-056)

- Kowalenko, G.C. *Nitrogen Transformation Processes in Agricultural Watershed Soils. Final Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Project 11. [Windsor, Ontario], April 1978, vp. (PLUARG 78-057)
- Logan, Terry J. *Maumee River Basin Pilot Watershed Study, Summary Pilot Watershed Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, (U.S. Section). [Windsor, Ontario], April 1978, 96 pp. (PLUARG 78-044)
- Hore, R.C. and R.C. Ostry. *Grand River, Ontario, Summary Pilot Watershed Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C. [Windsor, Ontario], April 1978, 63 pp. (PLUARG 78-046)
- Hore, R.C. and R.C. Ostry. *Saugeen River, Ontario, Summary Pilot Watershed Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C. [Windsor, Ontario], April 1978, 56 pp. (PLUARG 78-047)
- Agriculture Canada, Ontario Ministry of Agriculture and Food and Ontario Ministry of the Environment. *Agricultural Watershed Studies, Great Lakes Drainage Basin, Canada. Final Summary Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, (Canadian Section), Activity 1. [Windsor, Ontario], May 1978, 79 pp. (PLUARG 78-050)
- Robinson, J.B., N.K. Kaushik and L. Chatarpaul. *Nitrogen Transport and Transformations in Canagagigue Creek. Final Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C, Activity 1, Project 19A. [Windsor, Ontario], June 1978, 62 pp. (PLUARG 78-058)
- Chesters, Gordon et al. *Pilot Watershed Studies Summary Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], June 1978, vp. (PLUARG 78-037)
- Knap, Katherine M. and William F. Mildner. *Streambank Erosion in the Great Lakes Basin. Joint Summary Technical Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C. [Windsor, Ontario], June 1978, 29 pp. (PLUARG 78-076)
- Coote, D.R. and F.R. Hore. *Pollution Potential of Cattle Feedlots and Manure Storages in the Canadian Great Lakes Basin. Final Report. Parts 1 & 2.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Project 21. [Windsor, Ontario], August 1978, 131 pp. (PLUARG 78-072)
- Ihnat, M. *Agricultural Sources, Transport and Storage of Metals: Copper, Zinc, Cadmium and Lead Levels in Waters of Selected Southern Ontario Agricultural Watersheds.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Project 9B. [Windsor, Ontario], November 1978, 156 pp. (PLUARG 78-070)
- Coote, D.R. and R. DeHaan. *Agricultural Watersheds Overview Data Analysis and Extrapolation. Final Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Project 1B. Windsor, Ontario, December 1978, 79 pp. (PLUARG 78-073)
- Chan, H.T. *Contamination of the Great Lakes by Private Wastes.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Parts 1 and 2, Activity 3. [Windsor, Ontario], December 1978. (PLUARG 78-080)
- Whitby, L.M. et al. *Sources, Storage and Transport of Heavy Metals in Agricultural Watersheds.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1. [Windsor, Ontario], 1978, 142 pp. (PLUARG 78-067)
- Topp, G.C. *Physical Properties of the Soils of Agricultural Watersheds 1 and 13 Which Control Moisture Storage and Transport. Final Report.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 1, Project 12. [Windsor, Ontario], 1978, 43 pp. (PLUARG 78-071)
- Menomonee River Pilot Watershed Study.* Contribution to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C. 11 Vols. Great Lakes National Program Office, Chicago, Illinois. (PLUARG 79-043)
- Vol. 1 Summary and Recommendations 1979
- Vol. 2 Land Use, Population and Physical Characteristics of the Menomonee River Watershed 1978
- Vol. 3 Surface Water Monitoring Data 1978
- Vol. 4 Description and Calibration of a Pollutant Loading Model - Landrun 1979
- Vol. 5 Simulation of Pollutant Loadings and Runoff Quality 1979
- Vol. 6 Atmospheric Chemistry 1978
- Vol. 7 Groundwater Hydrology 1979
- Vol. 8 Atmospheric Chemistry of Lead and Phosphorus 1979
- Vol. 9 Atmospheric Chemistry of PCBs and PAHs 1980
- Vol. 10 Effects of Tributary Inputs on Lake Michigan During High Flows 1979
- Vol. 11 Availability of Pollutants Associated with Suspended or Settled River Sediments Which Gain Access to the Great Lakes 1979
- Acton, C.J., G.T. Patterson and C.G. Heath. *Soil Survey of Six Agricultural Subwatersheds in Southwestern Ontario.* Submitted to the International Reference Group on Great Lakes Pollution

from Land Use Activities, Task Group C (Canadian Section). January 1979, 219 pp. (PLUARG 79-054)

O'Neill, J.E. *Pollution from Urban Land Use in the Grand and Saugeen Watersheds*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 3. [Windsor, Ontario], January 1979, 55 pp. (PLUARG 79-078)

Logan, Terry J. and Robert C. Stiefel. *Maumee River Basin Pilot Watershed Study. Final Report*. 2 Vols. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C. Great Lakes National Program Office, Chicago, Illinois. March 1979. (PLUARG 79-045)

Vol. 1 Watershed Characteristics and Pollutant Loadings. Defiance Area, Ohio. 135 pp.

Vol. 2 Sediment, Phosphates, and Heavy Metal Transport. Defiance Area, Ohio. 133 pp.

Avadhanula, M. Rao. *Pollution from Rural, Transportation, Extractive, and Undisturbed Land Uses in the Grand and Saugeen Watersheds*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 3. [Windsor, Ontario], March 1979, 60 pp. (PLUARG 79-079)

Ostry, R.C. *The Effect of Some Waste Disposal Practices on Great Lakes Water Quality*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activity 3. [Windsor, Ontario], March 1980, 58 pp. (PLUARG 79-087)

Onn, Dennis. *Data Collection Methodology Used in the Study of Pollution from Land Use Activities in the Grand River and Saugeen Watersheds*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Activities 3 and 4. [Windsor, Ontario], March 1980, 86 pp. (PLUARG 79-088)

Task 'D' Reports

Coote, D.R. et al. *Detailed Plan for the Study of Agricultural Watersheds in the Great Lakes Drainage Basin - Canada, 1974-1975*. Prepared by the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group C (Canadian Section), Agricultural Subcommittee. Windsor, Ontario, February 1974, vp. (PLUARG 74-118)

International Reference Group on Great Lakes Pollution from Land Use Activities. *Detailed Study Plan to Assess Great Lakes Pollution from Land Use Activities*. Submitted to the Great Lakes Water Quality Board. [Windsor, Ontario], March 1974, vp. (PLUARG 74-116)

Konrad, John G., Gordon Chesters and Kurt W. Bauer. *Menomonee River Pilot Watershed Study, Work Plan*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities and the U.S. Environmental Protection Agency. September 1974, 44 pp. (Unpublished) (PLUARG 74-119)

Ongley, Edwin David. *Hydrophysical Characteristics of Great Lakes Tributary Drainage, Canada*. 5 Vols. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D, Activity 1, Subactivity 1. October 1974. (Unpublished, IJC Archives) (PLUARG 74-101)

Environment Canada and Ontario Ministry of Natural Resources. *Canada-Ontario Great Lakes Shore Damage Survey Technical Report*. Contribution to the International Reference Group on Great Lakes Pollution from Land Use Activities. Windsor, Ontario, October 1975, 97 pp. (PLUARG 75-100)

Ontario Ministry of the Environment, Water Resources Branch. *Work Plan, Activities 1, 3 and 4*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. October 1975, vp. (Unpublished) (PLUARG 75-120)

Canada-Ontario Great Lakes Shore Damage Survey Coastal Zone Atlas. Contribution to the International Reference Group on Great Lakes Pollution from Land Use Activities. Windsor, Ontario, March 1976, 732 pp. (PLUARG 76-100)

Great Lakes Basin Commission. *Existing River Mouth Loading Data in the U.S. Great Lakes Basin*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section). [Windsor, Ontario], May 1976, 713 pp. (PLUARG 79-089)

International Reference Group on Great Lakes Pollution from Land Use Activities. *Supplement to the Detailed Study Plan to Assess Great Lakes Pollution from Land Use Activities*. Submitted to the Great Lakes Water Quality Board. [Windsor, Ontario], August 1976, 119 pp. (PLUARG 76-117)

Seibel, Erwin, John M. Armstrong and Cheryl L. Alexander. *Technical Report on Determination of Quantity and Quality of Great Lakes U.S. Shoreline Eroded Material*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Activity 1.1. [Windsor, Ontario], September 1976, 292 pp. (PLUARG 76-092)

Eadie, Brian J. *Effect of the Grand River Spring Runoff on Lake Michigan*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Subactivity 3.1. September 1976. (Unpublished Draft) (PLUARG 76-099)

Monteith, Timothy J. and William C. Sonzogni. *U.S. Great Lakes Shoreline Erosion Loadings*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Subactivity 1-1b. [Windsor, Ontario], December 1976, 211 pp. (PLUARG 76-093)

- State University of New York College (Buffalo), Great Lakes Laboratory. *Effect of Genesee River Discharge and Wind-Induced Resuspension on the Nearshore Area of Lake Ontario*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. December 1976, 69 pp. (Unpublished) (PLUARG 76-108)
- Acres Consulting Services Ltd. *Atmospheric Loading of the Lower Great Lakes and the Great Lakes Drainage Basin*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], March 1977. (PLUARG 77-095)
- Ongley, Edwin D. *Study of Statistical Evaluation, and Update of Data Bank with Discharge and Water Quality Data for the Great Lakes Interconnecting Channels and Associated Tributaries*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (Canadian Section). March 1977, 91 pp. (Unpublished). (PLUARG 77-103)
- Herdendorf, Charles E. and John E. Zapotosky. *Effects of Tributary Loading to Western Lake Erie During Spring Runoff Events*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task D (U.S. Section), Activity 3.1. May 1977, 153 pp. (Center for Lake Erie Area Research Technical Report 65). (PLUARG 77-106)
- National Aeronautics and Space Administration, Lewis Research Center. *Coordinated Aircraft/Ship Surveys for Determining the Impact of River Inputs on Great Lakes Waters - Remote Sensing Results*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. June 1977, 25 pp. (Unpublished) (PLUARG 77-109)
- Bannerman, Roger, John Konrad and Don Becker. *Effect of Menomonee River Inputs on Lake Michigan During Peak Flow*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Activities 3.1 and 3.1a. August 1977, 78 pp. (Unpublished) (PLUARG 77-107)
- Acres Consulting Services Ltd. *Atmospheric Loadings to the Great Lakes, A Technical Note*. Submitted to the International Reference Group on Pollution of the Great Lakes from Land Use Activities. [Windsor, Ontario], September 1977, 17 pp. (PLUARG 77-095T)
- Sydor, Michael and Gordon J. Oman. *Effects of Nemadji River Runoff on Lake Superior*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Activities 3.1 and 3.3a. December 1977, 174 pp. (Unpublished) (PLUARG 77-105)
- Thomas, R.L. and W.S. Haras. *Contribution of Sediment and Associated Elements to the Great Lakes from Erosion of the Canadian Shoreline*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D, Activity 1. Windsor, Ontario, 1978, 57 pp. (PLUARG 78-094)
- Sonzogni, William C. et al. *United States Great Lakes Tributary Loadings*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Activity 2.3. [Windsor, Ontario], January 1978, 187 pp. (PLUARG 78-090)
- Gregor, D.J. and E.D. Ongley. *Analysis of Nearshore Water Quality Data in the Canadian Great Lakes, 1967-1973, Part 1*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (Canadian Section), Activity 2.1. [Windsor, Ontario], January 1978, 270 pp. (PLUARG 78-096)
- Ongley, Edwin D. *Land Use, Water Quality and River-Mouth Loadings: A Selective Overview for Southern Ontario*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (Canadian Section), Activity 2.1. [Windsor, Ontario], March 1978, 110 pp. (PLUARG 78-091)
- Suns, K. et al. *Organochlorine and Heavy Metals Residues in the Nearshore Biota of the Canadian Lower Great Lakes*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (Canadian Section), Activity 3.3. [Windsor, Ontario], May 1978, 45 pp. (PLUARG 78-098)
- Chesters, Gordon and Joseph J. Delfino. *Frequency and Extent of Wind-Induced Resuspension of Bottom Material in the U.S. Great Lakes Nearshore Waters*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Activity 3.3b. [Windsor, Ontario], June 1978, 111 pp. (PLUARG 78-097)
- Gregor, Dennis J. and Walter Rast. *Trophic Characterization of the U.S. and Canadian Nearshore Zones of the Great Lakes*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], February 1979, 38 pp. (PLUARG 79-110)
- Rast, Walter and Dennis J. Gregor. *Report on Differences in Great Lakes Phosphorus Load Estimates*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities. [Windsor, Ontario], February 1979, 27 pp. (PLUARG 79-111)
- Sonzogni, William C. et al. *Critical Assessment of U.S. Land Derived Pollutant Loadings to the Great Lakes*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (U.S. Section), Subactivity 3-4. March 1979, 179 pp. (PLUARG 79-112)
- Millard, E.S. et al. *Biomagnification of Atrazine in Lake Column Simulators*. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (Canadian Section). [Windsor, Ontario], August 1979, 27 pp. (PLUARG 79-113)
- Millard, E.S., C.C. Charlton and G.A. Burnison. *Availability of Phosphorus in Different Sources Entering the Great*

Lakes for Algal Growth. Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D (Canadian Section). [Windsor, Ontario], August 1979, 38 pp. (PLUARG 79-114)

Armstrong, D.E., J.J. Perry and D.E. Flatness. *Availability of Pollutants Associated with Suspended or Settled River Sediments Which Gain Access to the Great Lakes.* Submitted to the International Reference Group on Great Lakes Pollution from Land Use Activities, Task Group D, Water Quality Impairment Studies. Great Lakes National Program Office, Chicago, Illinois, December 1979, vp. (EPA-905/4-79-028) (PLUARG 79-115)

Related Documents

Sullivan, Rose Ann C., Paul A. Sanders and William C. Sonzogni. *Post-PLUARG Evaluation of Great Lakes Water Quality Management Studies and Programs.* 2 Vols. Great Lakes National Program Office, Chicago, Illinois, 1980. Vol I, 158 pp; Vol II, 141 pp. (EPA-905/9-80-006-A & B)

Bibliography

International Reference Group on Great Lakes Pollution from Land Use Activities. *Annotated Bibliography of PLUARG Reports.* [Windsor, Ontario], 1979, 121 pp. (PLUARG 79-122)

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, 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 organizations, continues to compile and disseminate data; prepare and dis-

tribute reports; provide library services; organize and staff workshops and conferences; perform liaison with the 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 published three times per year and deals primarily with the ecosystem quality of the Great Lakes ecosystem.

Special Reports

Great Lakes Regional Office. *Municipal Phosphorus Loadings to Lake Erie, An Evaluation Study Prepared for the Great Lakes Water Quality Board.* Windsor, Ontario, December 1975, 35 pp.

Great Lakes Educators Advisory Council. *Directory of Great Lakes Education Material.* Fourth edition. Windsor, Ontario, March 1992, 77 pp.

TO OBTAIN COPIES OF AVAILABLE REPORTS, PLEASE FILL IN THIS AREA AND RETURN TO:

Information Services
International Joint Commission
Great Lakes Regional Office
100 Ouellette Avenue, Eighth Floor
Windsor, Ontario N9A 6T3

or

Information Services
International Joint Commission
Great Lakes Regional Office
P.O. Box 32869
Detroit, Michigan 48232-2869

Title

Date of Publication

Do you wish to receive updates of this bibliography?

Yes ☐ No ☐

Do you wish to be added to the newsletter mailing list

Yes ☐ No ☐

for FOCUS on International Joint Commission Activities?

Yes ☐ No ☐

Do you wish to be added to the biennial reports mailing list?

Yes ☐ No ☐

Do you wish a copy of the Protocol amending the 1978 Agreement?

Yes ☐ No ☐

NAME: _____

ADDRESS: _____

ZIP/POSTAL CODE: _____

TELEPHONE: _____