

**SECOND PROGRESS REPORT
to the
INTERNATIONAL JOINT COMMISSION
by the
INTERNATIONAL LAKE ONTARIO – ST. LAWRENCE RIVER STUDY BOARD**

**Covering the period
23 March 2001 through 4 October 2001**



**4 October 2001
Ottawa, Ontario
Buffalo, New York**

INTERNATIONAL LAKE ONTARIO-ST. LAWRENCE RIVER STUDY BOARD

Ottawa, Ontario
Buffalo, New York
4 October 2001

International Joint Commission
Ottawa, Ontario
Washington, D.C.

Commissioners:

The International Lake Ontario-St. Lawrence River Study Board submits herein its 2nd Semi-Annual Progress Report, covering activities from 23 March 2001 to 4 October 2001.

1. SUMMARY

During the reporting period, the Study Board held six meetings and conference calls as outlined in Appendix #1. The Board made significant progress with initiatives to achieve the Study mandate provided by the Commission.

With the active support of the established Technical Working Groups (TWG), the Board has now moved ahead with the implementation of the works identified in the approved Work Plans. The Board also worked closely with the Public Interest Advisory Group (PIAG), implementing a number of measures to communicate with the public at large as well as interest groups affected by the water levels in the Lake Ontario B St. Lawrence River system.

The specific works in progress under the Board and the TWG-s are discussed in some detail under Section 4. While a few remain to be finalized, there are now a number of formal commitments with government agencies or private contractors for works to be completed by or before March 2002. These have been planned so that, to the extent possible, the results obtained by that time would be of value whether or not the Study continues to be funded. Regarding funding, all of the available \$2.15 million U.S. funding for FY 2001 was committed or obligated at the September 30th U.S. fiscal year-end. As of this date, about \$2.7 million of the available \$3.1 million Canadian funding has been committed.

The first Study newsletter was completed in August and is being widely distributed. The Study website is up and running in fully bilingual format. The newsletter and website provide general information about the Study, the Study teams, the ongoing initiatives and other related information. The website includes a Discussion Room currently being developed, which will provide a forum for the public to exchange information and views about their specific

experiences, needs, and uses in the system. During the reporting period, the PIAG held or participated in 22 meetings and workshops across the system to inform and obtain feedback from the public. Finally, the first annual public meeting was scheduled to be held on September 13 but, due to the September 11 events, it was re-scheduled to October 18 in Montreal to take place in conjunction with the Commission's Public Forum 2001.

The Board has aggressively addressed plan formulation and evaluation challenges and has established a Plan Formulation and Evaluation Group and sub-groups to lead this work early in the Study mandate.

The Ottawa and Buffalo Secretariats are fully functional. From these offices, the Canadian and U.S. General Managers provide the overall coordination of the activities of the Study Board and the liaison with all the supporting teams and agencies. The Canadian Public Information Officer was hired in May. The U.S. Public Information Officer came on board on October 1st.

2. BOARD ACTIVITIES

Early in the reporting period, the Board emphasized the need to develop detailed work plans for the individual TWG-s and their implementation. At the May 15 meeting, the Board received and approved the work plans of the Common Data group. As well, the Board received and approved work plans presented by the Hydrology and Hydraulics TWG and the Recreational-Boating TWG. The Coastal Processes TWG-s work plan was discussed and it received approval in principle, subject to some minor revisions. Similarly, a partial work plan from the Commercial Navigation TWG was given approval to enable the group to proceed with essential data acquisitions and analyses.

The Public Interest Advisory Group (PIAG) prepared and submitted a work plan during the July 10 meeting of the Board. The work plan provided for multi-year activity and expenditures. The Board approved the plan for the first year ending March 2002.

As well, the Board:

- \$ Met and discussed the Study with leaders of the Councils of the Mohawks of Akwesasne and the St. Regis Indian Band.
- \$ Completed the Board membership with the addition of Professor Steven Renzetti, who brings environmental economic expertise to the Board. As well, Robert S. Martin from the St. Regis Mohawk Tribe, Akwesasne, N.Y. joined the Board as a U.S member.
- \$ Created a linkage with the Lake Ontario LaMP (Lakewide Management Plan) and scheduled a briefing of the LaMP committees.
- \$ Initiated discussion of Year 2 Work plans.

3. PUBLIC INTEREST ADVISORY GROUP (PIAG) ACTIVITIES

The Public Interest Advisory Group worked on developing a general presentation for use by any PIAG member as they hold meetings with local communities and interest groups. The presentation was coordinated with the Board and IJC and finalized. It has now been provided to members, on a Compact Disk as well as in the form of acetates, for use as they plan their meetings. The presentation is available both in English and in French. Feedback from members who used the presentation has been positive.

PIAG also decided that they should obtain input from the public about the impacts of water levels throughout the system. A questionnaire was sent out to the public (in English and French). The public response has been very good. At this time, the results remain to be analysed.

A list of PIAG meetings and activities is given in Appendix #2.

The group decided last summer to hold four workshops as identified in their work plan. The first workshop was held in Clayton N.Y. on August 22. There were over 50 participants from the public. PIAG has planned to hold three more such meetings, two in Canada and one in the U.S.

4. TECHNICAL WORK GROUP (TWG) ACTIVITIES

A list of currently appointed and proposed TWG members, along with Board liaisons to the TWG-s, is included as Appendix #3. The list also shows the PIAG members who will liaise between the indicated TWG-s and PIAG.

4.1 Common Data TWG

The Common Data TWG is a small group of six members, who make every effort to coordinate directly with the Leads of the other TWG-s and has also included numerous experts in their meetings as needed. The group submitted a work plan to the Board in April 2001, which was approved.

A major effort of the Common Data group has been the collection of topographic and bathymetric data for prioritized areas. In May 2001, topographic data was collected for all three portions of the U.S. Lake Ontario shoreline scheduled for data collection. Also in the spring, traditional acoustic soundings were conducted in the lower St. Lawrence to fill in gaps in the bathymetric data for that area. This past summer, bathymetric collection was carried out for all priority zones on both the U.S. and Canadian shores of Lake Ontario. Initial results are very promising. Still to be completed is topographic data collection along the lower St. Lawrence River scheduled for this fall. All of this topographic and bathymetric data will be used to develop digital elevation models (DEMs) to be used by the various TWG-s for modeling impacts of different water level scenarios. The Common

Data TWG has more recently been assigned the task of coordinating aerial photography and other imagery requirements for the TWG-s. The Common Data TWG is making arrangements for additional data collection in the fall after the leaves have fallen.

Another task assigned to the Common Data Needs TWG is the development of a strategy for issues related to the use, management and distribution of geo-spatial and other data and information collected throughout the study.

The group is undertaking the development of short-term and long-term GIS strategies that will be used by all the TWG-s.

4.2 Coastal Processes TWG

The Coastal Processes TWG held its first meeting on March 28. Several presentations were made on initial study meetings and activities already underway, in order to provide a common grounding for the diverse membership of the group. A draft work plan for the first year of the study was developed and presented to the Study Board in May.

At the second meeting of the TWG on May 24-25, the work plan was revised, plans were made to hold a workshop on modeling strategies, and a decision was made to issue a contract to summarize the availability of existing data. The revised work plan was submitted to and approved by the Study Board in June.

The group held a modeling strategies workshop on August 14 and 15. Presentations were made by several consultants and researchers on the application of models to evaluate the impacts of water levels on the shores of Lake Ontario and the St. Lawrence River. The group reached agreement on strategies that will be used for modeling, and preliminary negotiations are underway with potential consultants.

4.3 Environmental TWG

The Environmental Technical Working Group held meetings, participated in varied meetings and workshops and conducted an extensive planning process for the first year activities. The Group held a meeting on April 17 and 18 in Montreal to develop the basic plan for 2001 activities. Potential contractors and study participants were contacted afterward, and 35 proposals for more than \$1.2 Million US were received. A comprehensive work plan was developed with 23 projects at a cost of \$685,000 US. The package was put together after many interactions with project proponents to adjust study details, deliverables, and cost. This helped the group to streamline the process and directly address overall study needs, mandate, and resources. Planned activities to the end of March 2002 focus on (1) wetland vegetation studies and mapping to provide recommendations on the regulation scenarios to maintain dynamic cycles and

processes, (2) faunal studies to protect significant habitat in coastal waters for fish and bird communities; and (3) modeling and integration of data to obtain preliminary outcomes of different regulation scenarios on all Environmental attributes. The Study Board approved the first year detailed work plan of this group on 12 June at their meeting in Cornwall Ontario. The distribution of funds to conduct the approved activities is underway: processing of agreements began in Canada in June, and in mid-August for US activities.

Products from the environmental and recreational boating studies on the Lower St. Lawrence funded by the IJC in 2000 were presented at a special conference session in May at the St. Lawrence Institute for Environmental Studies. The group was also involved in the development of the performance indicators approach adopted by the Study Board for guiding the overall effort. Members and Leads of the group participated in meetings and workshops of the Common Data Needs Group. Finally, the group held a meeting in September 27-28 to begin looking beyond the current activities so that overall study goals are attained in the years ahead.

4.4 Recreational Boating/Tourism TWG

The group held two meetings, one on April 25 in Buffalo and one in June 28 in Montreal, which helped define specific tasks. The group's first year work plan was presented to the Board and received approval at the Board's meeting of May 15, 2001. Work performed or currently in progress includes: (1) marina inventory on Lake Ontario and the St. Lawrence River (US and Canada), including physical data collection (water depths, etc.); (2) developing a marina physical impact survey; (3) using preliminary data on socio-economic valuation and (4) working on regional impact model.

Physical data measurement (physical marina survey): The purpose of the physical marina survey is to obtain site characterization data (capacity, type of boats and water-depth needs, goods and services provided, etc.) in the study area. Physical data measurement is on its way for Lake Ontario and Upper St. Lawrence River (Canadian side). For the Lower St. Lawrence (Canadian portions), the group is using data already available; reviewing the quality of the data; and planning to integrate these in a GIS support system for further water level variation scenarios.

Physical data collection at a sample of representative sites in Alexandria Bay was done in late August/ early September.

Marina physical impact survey: The group planned a survey for marinas and other access areas such as yacht clubs to obtain basic information on infrastructure impact of water level fluctuations. For Lake Ontario and Upper St. Lawrence, work started at the beginning of September. For Lower St. Lawrence the group intends to use the same approach.

Marina socio-economic survey: In addition to marina's physical impact survey there will be socio-economic valuation. Although this is planned for next year (after March

31, 2002), some previous work needs to be done defining methodological issues for socio-economic variables. A preliminary survey for marinas and municipal boating access done in 2000 for the Lower St. Lawrence River will be analyzed from a methodological point of view to serve as guideline to estimate further socio-economic information. This work has been initiated.

Developing a regional model: The purpose of developing a regional model is to identify main impacts and associated economic values in order to estimate benefits and costs of water level changing conditions on marinas and yacht clubs operators, users and tourism related activities and look at data relationship and aggregation.

Effort has commenced in scoping the preliminary survey design and methodology for regional impact analysis. The effort will be the basis for the detailed work proposed for this study in year 2.

4.5 Commercial Navigation TWG

The group held their first meeting on May 8 in Montreal and developed the group's proposed work plan covering the period to the end of March 2002. Because of some uncertainty about modeling requirements and the potential for benefiting from the work of the H&H TWG, they recommended to the Board a partial implementation of a plan covering the most pressing data and analyses required.

The group now has a contract with a Quebec firm (CFORT) to gather and analyze commercial traffic data in the St. Lawrence waterways from Montreal downstream.

4.6 Hydroelectric Power Generation TWG

The TWG had a conference call in June and agreed on a study program to be completed by March 2002. Due to the many participants not being available during the summer, the next meeting was postponed to the fall period. The TWG expects to provide a description of the physical characteristics of power generation equipment and the operational constraints for power production optimization, dam and riparian safety and environment. The TWG did not ask for any financial support from the Board

4.7 Domestic, Industrial and Municipal Water Uses TWG

A U.S Lead for this group has not been appointed yet. The Board approved a contract with Planning & Management Consultants, Ltd. to conduct a physical inventory and assessment of public and private water supply intakes along the Lake Ontario and St. Lawrence River shorelines.

4.8 Hydrologic and Hydraulic Modeling TWG

The Hydrology and Hydraulics Technical Work Group (H&H group) met twice during the reporting period to develop their work plan for the first year. Members of the H&H group also attended some meetings of the other TWG-s to coordinate activities and foster communication. Two members of the H&H group are also members of the Plan Formulation Group as the work of these two groups is very closely linked.

The Year-1 work plan of the group was reviewed and approved by the Study Board at its May 15, 2001 meeting. The work plan included the following projects.

Extension of the Coordinated Great Lakes Regulation and Routing Model to the St Lawrence River to Trois Rivières: Hydrometric data has been assembled and screened. Work has commenced using these data to develop the relationships.

Lake Ontario Pre-project Outlet Hydraulic Relationship: Documentation of the existing relationship has been gathered. The method used to estimate the effects of ice resistance on the flows under pre-project conditions is being reviewed.

Base Case Development (Plan 1958D Deviations estimation model) : Data and documentation of the historic deviations from Plan 1958-D have been gathered.

Review of Methods to Regulate Reservoir Outflows: A review of the published water resources engineering literature has commenced.

Ottawa River Regulation and Routing Model Upgrade: Data gathering has commenced and a review of the software of the existing model is underway.

Hydrodynamic Modelling of St. Lawrence River (for the reach covering Kingston/Cape Vincent to Cornwall): A literature review has been completed identifying and examining all previous modelling on the St. Lawrence River. Bathymetry data for the model is undergoing quality control checks. Provisional bathymetry data has been received and is being used to construct an initial model. Stage, velocity, discharge, and base mapping data have been gathered. Once the finalized bathymetry data is available, the model will be updated and calibrated to existing data. It is anticipated that an operational 2D hydraulic model for the upper St. Lawrence River from Cornwall to Chippewa Bay will be ready for initial scenario runs by March 31, 2002. The Chippewa Bay to Kingston reach will not be available until a later date as the Thousand Islands reach will be the most challenging to model.

Hydrodynamic modelling of St. Lawrence River (for the Lac Saint-Louis Reach): This work is partly in progress, while formalities the agreement with Environment Canada (Quebec Region) is being finalized.

Synthetic Generation of the Net Basin Supplies to the Great Lakes and the Inflows of the Ottawa River: Work has been contracted to analyse the relevant statistical characteristics of the hydrologic and climate series to identify the modelling needs for Great Lakes NBS and Ottawa River inflows simulation. A separate agreement has been reached to review the modelling needs and update multivariate shifting level model.

Climate Change Scenario Development: Three climate change scenario items are to be completed within the first year. The first effort is to extend the existing Great Lakes climate change scenario dataset to the Ottawa River basin. This will enable later comparisons of these climate change projections with others to be generated in subsequent study years for the entire study area, using the most current Global Circulation Model (GCM) scenarios available. The second is to compare GCM climate scenarios within the Great Lakes and St. Lawrence River study area. This will provide a means of identifying those climate models and emission scenarios that produce future mid-range and extreme temperature and precipitation projections in the study area. The third effort is to describe current methods for constructing regional climate scenarios and recent advances in regional downscaling techniques for GCM outputs. The findings will provide necessary guidance on selecting the appropriate downscaling techniques that will be used for the climate change impact assessments. Work is proceeding on all three items.

4.9 Plan Formulation and Evaluation

The Board has held several further discussions on plan formulation and evaluation during the reporting period. Under the leadership of Peter Loucks, Gene Stakhiv and several other study participants, the Board has adopted a multi-objective, multi-stakeholder framework for evaluating simulated water management alternatives in this study. The objectives of this framework are:

- To provide a means of identifying, assessing and comparing multiple impacts of alternative criteria and regulation plans.
- To create a simple process that can involve the public in the identification and evaluation of objectives and thereby create a shared vision among all stakeholders of how the system works and the necessary trade-offs among conflicting interests.
- To focus and provide a framework for both the activities of each technical working group as well as the debate over which water management alternative is best.

The Board held two meetings to address arrangements for plan formulation and evaluation. The Board discussed and formed the organizational structure at the meeting on 9 and 10 July in Rochester N.Y. A four-member Plan Formulation Group (PFG) was formed and charged with the development and implementation of the work plan. A ten-member Planning Group (PG) was established to assist the PFG and provide guidance. A Plan Formulation and Evaluation Group will be

overseeing the overall work. It consists of the PG plus the Study Board (including the Co-Chairs of PIAG) and the TWG Leads.

At the 3 October meeting in Watertown N.Y. the Leads of the TWG's participated to ensure their individual teams work toward a common understanding and objective, in support of the plan formulation and the methods of evaluating alternative plans. The TWG Leads were tasked to develop planning objectives and Performance Indicators for their respective groups.

At the 3 October meeting, a work plan covering tasks to the end of March 2002 was submitted by the PFG. The Board discussed and approved the plan.

5. BUDGETS AND TIMELINE

The Board and the various TWG-s worked closely to develop individual work plans consistent with the Scope of Work and guidance provided by the Commission. The work plans were developed to outline proposed initiatives within the allocated funding. These work plans were scrutinized by the Board and received approval before funds were to be committed or obligated.

With most of the individual projects or data collection activities well underway, the Board undertook a mid-term review of the overall allocations to more accurately determine expected funding requirements to the end of March 2002. The table in Appendix #4 shows the results.

The Canadian section proposes re-profiling of \$300,000 (Canadian \$'s) to the next fiscal year. This is as a result of limited time for the TWG's to develop plans for contracts with the private sector or agreements with government agencies to undertake the works. As well, since some of the field data collection had to be done in the fall, it was necessary to postpone significant analysis work.

Respectfully submitted,

DOUGLAS CUTHBERT
Canadian Co-Director

EUGENE STAKHIV
U.S. Co-Director

ANDRE CARPENTIER

FRANK QUINN

LYNN CLEARY

PETE LOUCKS

IAN CRAWFORD

FRANK SCIREMAMMANO

HENRY LICKERS

SANDRA LeBARRON

FRED PARKINSON

DALTON FOSTER

STEVEN RENZETTI

ROBERT S. MARTIN

ED ERYUZLU
Canadian General Manager

ANTHONY EBERHARDT
U.S. General Manager

APPENDIX # 1

Board Meetings, Conference Calls, and Special Meetings (*)

1. April 26, 2001 : Conference call
2. May 15, 2001 : Board meeting, Cornwall, Ontario
3. June 12, 2001 : Board meeting, Cornwall, Ontario
4. June 12 /13, 2001: * Special meeting in Akwesasne
5. July 9 / 10, 2001 : * Plan Formulation and Evaluation, Buffalo, N.Y.
6. July 10, 2001 : Conference call
7. August 1, 2001 : * Board Planning Group conference call
8. August 22, 2001 : Conference call
9. October 3, 2001 : * Plan Formulation, Watertown, N.Y.
10. October 4, 2001 : Board meeting, Watertown, N.Y.

APPENDIX # 2

List of PIAG Meetings and Activities

Audience - Organization	Location	Date	Approx. No. of Attendees
Marine Corps League (Det#685) Annual Installation Dinner Meeting	Massena, NY	May 12, 2001	60
Press conference at Lachine Marina	Lachine, QC	Jun 01, 2001	20
International Water Levels Coalition Annual Meeting	Rockport, ON	Jun 02, 2001	57
AGM of ZIP committee Ville-Marie	Montreal, QC	Jun 06, 2001	52
AGM of ZIP committee Des Seigeuries	Varenne, QC	Jun 07, 2001	50
AGM of Great Lakes United Board	Windsor, ON	Jun 09, 2001	20
AMG of ZIP committee Haut-Saint-Laurent	Quebec	Jun 12, 2001	72
Private Landowners committee of the Ontario Dunes Coalition	East Shore - Lake Ontario	Jun 23, 2001	5
Wilson Hill Association Annual Meeting	Louisville, NY	Jul 12, 2001	55
Grandview Beach Association	Greece, NY	Jul 2001	60
North Rainbow Shores Association	East Shore - Lake Ontario	Jul 14, 2001	15
Berthierville Marina	Lac St-Pierre area	Jul 21, 2001	20
Friends of Sandy Pond Beach	Sandy Creek, NY	Jul 26, 2001	12
Ontario Dunes Association	Sandy Creek, NY	Aug 02, 2001	50
Ile Perrot Marina	Ile Perrot, QC	Aug 04, 2001	35
Greece Rotary Club	Greece, NY	Aug 2001	80
Sailing Club - Pointe Du Lac	Lac St-Pierre area	Aug 17, 2001	5

Louisville Marina	Lac St-Pierre area	Aug 18, 2001	7
PIAG General Public Meeting	Clayton, NY	Aug 22, 2001	53
North Rainbow Shores Association	East Shore - Lake Ontario	Aug 25, 2001	20
Renshaw Beach Association	East Shore - Lake Ontario	Aug 26, 2001	30
Environmental Management Council - St. Lawrence Co.	Canton, NY	Sep 19, 2001	15
Big Rideau Lake Association	Rideau Lake - Ontario	Sep 22, 2001	15
PIAG General Public Meeting	Rochester, NY	Oct 11, 2001	?
24 Meetings		Total =	808 +

APPENDIX # 3

**International
Lake Ontario – St. Lawrence River Study Board
Technical Working Groups**

COASTAL PROCESSES		
Last Name	First Name	Remarks
BENDER	Tom	US Lead, USACE, Buffalo
POPE	Joan	USACE, ERDC
BONNANO	Sandra	TNC
ELLSWORTH	Joanne	Niagara County Planning
WOODROW	Donald	Hobert & William Smith
O'NEILL	Chuck	SUNY College@Brockport
SHEARER	Robert	NYSDEC
THIEME	Scott	USACE, Detroit
MOULTON	Ralph	Canadian Lead, EC
LABUDA	Teresa	HALTON Conservation
CANTIN	Jean-François	EC, Quebec Region
LEPAGE	Serge	EC, SCL
BOYD	Ala	MNR, Ont.
SCIREMAMMANO	Frank	BOARD LIAISON
McKENNA	Anthony	PIAG CONTACT
SESSLER	Sally	
STEWART	Henry	
STREIBEL	Max	
COMMERCIAL NAVIGATION		
Last Name	First Name	Remarks
HABERLY	Roger	US Lead, USACE, Buffalo
LAVIGNE	Thomas	SLSDC, Massena
ROBERTSON	Denis	USACE
LANTZ	Ivan	Canadian Lead
DUMONT	Stéphane	Canadin Coast Guard
VINCELLI	Pat	Cnd Seaway
FAIVRE	Jérôme	
BÉDARD	Jean-Luc	Port of Montreal
D'AGNOLO	Flavio	CCG –Nav. Services
		BOARD LIAISON
LANTZ	Ivan	PIAG CONTACT
MCAUSLAN	Tom	

ENVIRONMENT		
Last Name	First Name	Remarks
BAIN	Mark	US Lead, Cornell
HAYNES	James	SUNY College Brockport
BONANNO	Sandra	TNC
SCHIAVONE	Albert	NYSDEC
WILCOX	Douglas	USGS
LAPAN	Steve	NYSDEC
MASON	Doran	GLERL
DAVIS	Jack	USACE, ERDC
MANNO	Jack	SUNY-ESF
RANSOM	Jim	Akwesasne Mohawk Terr.
HUDON	Christiane	Canadian Lead EC, CSL
DE LAFONTAINE	Yves	EC, CSL Montreal
LEHOUX	Denis	EC, CSL Montreal
MINGELBIER	Marc	EC, CSL Montreal
PATTERSON	Nancy	Cdn Wildlife Services
STEWART	Tom	Ont MNR
MINNS	Ken	DFO, Burlington
LeBARRON	Sandra	BOARD LIAISON
STAKHIV	Eugene	
CARPENTER	Bruce	PIAG CONTACT
HALL	John	
HUDON	Marc	
KENNEDY	Elaine	
LAWN	Sandra	
WEISS	Stephanie	
POWER GENERATION		
Last Name	First Name	Remarks
CHING	John	OPG
LAVEAN	Cindy	NYPA
ROBERT	Sylvain	Canadian Lead, H. Que.
FENLON	Brian	NYSDEC
		BOARD LIAISON
OSINSKI	John	PIAG CONTACT

HYDROLOGY & HYDRAULIC MODELING		
Last Name	First Name	Remarks
CROLEY	Thomas	US Lead, GLERL
SHEN	Hung Tao	Clarkson University
YU	Paul	USACE, Buffalo
WERICK	Bill	USACE, IWR
FAY	David	Canadian Lead, EC
BELLEMARE	Jean-François	Min Env Que
FAGHERAZZI	Laura	Hydro Quebec
KLAASSEN	Joan	EC
MORIN	Jean	EC, CSL Montreal
MORTSCH	Linda	EC, Ont. Region
MOIN	Syed	EC, Ont. Region
LEE	DEBBIE	USACE, Buffalo
LOUCKS	Pete	BOARD LIAISON
CARPENTIER	Andre	
FOSTER	Dalton	PIAG CONTACT
INDUSTRIAL, MUNICIPAL AND DOMESTIC WATER USES		
Last Name	First Name	Remarks
STREPELIS	John	NYSDOH
SHOEMAKER	Clarence	NYSDEC
GOULD	Steven	Monroe County
GAGNON	Christian	EC, CSL
KAYE	Brian	Cnd Lead; MOE, Ont.
FOSTER	Dalton	BOARD LIAISON
BARLETTA	Dan	PIAG CONTACT
RECREATIONAL BOATING		
Last Name	First Name	Remarks
BROWN	Jonathan	US Lead, USACE, Buffalo
WHITE	David	SUNY College @ Oswego
DEYOUNG	Gary	1000 Islands
BURNS	Rockne	
GOULD	Steven	Monroe County
BIBEAULT	Jean-François	Canadian Lead
DONALDSON	Al	Ont. Marina Owners Asso
PETITPAS	Robert	Cnd Coast Guard, Axillary

ORR	David	1000-Islands
DYKE	Jim	Concile of Commodors,On
LUCCHESI	Claire	Que. Marine Trade Assoc.
BROWN	Tommy L.	Cornell U., Ithaca
PARKINSON	Fred	BOARD LIAISON
PARKINSON SCHERMERHORN,	Fred Bea	PIAG CONTACT
COMMON DATA NEEDS		
Last Name	First Name	Remarks
GAUTHIER	Roger	US Lead, USACE, Detroit
MURAWSKI	Paul	USACE, Buffalo
POPE	Joan	USACE, ERDC
LEGER	Wendy	Canadian Lead, EC
Kenny	Frank	Ontario MNR
Cantin	Jean-Francois	EC, Quebec Region
		BOARD LIAISON
		PIAG CONTACT

APPENDIX # 4

**International Lake Ontario – St. Lawrence River Study Board
Financial Tracking**

Lead	Canada (In Canadian \$'s)		U.S. (In U.S. \$'s)	
	Approved	Proposed	Approved	Proposed
IJC Management	200,000	100,000	203,500	203,500
Board/Secretariat	251,667	370,000	200,000	200,000
PIAG	214,000	150,000	193,600	193,600
TWG - Hydrology & Hydraulics	285,333	290,250	35,300	35,300
TWG - Environment	660,500	660,500	276,600	276,600
TWG - Recreational Boating	231,000	200,400	126,000	126,000
TWG - Coastal Processes	450,000	350,000	300,000	300,000
TWG - Commercial Nav	67,500	55,000	50,000	50,000
TWG - Hydroelectric Power	0	0	0	0
TWG - Water Uses	0	0	50,000	50,000
TWG - Common Data	710,000	710,000	635,000	635,000
Plan Formulation	30,000	0	80,000	80,000
Total	3,100,000	2,886,150	2,150,000	2,150,000

APPENDIX #5

Attendance at Board Meetings and Conference Calls

April 26, 2001 - Conference Call

Doug Cuthbert	Frank Quinn
Henry Lickers	Eugene Stakhiv
Ed Eryuzlu	Al Schiavon
Andre Carpentier	Frank Sciremammano
Fred Parkinson	Dalton Foster
Ian Crawford	Tony Eberhardt

May 15, 2001 - Board meeting in Cornwall, Ontario

Henry Lickers	Mike Scanlin
David Fay	Tom Bender
Ralph Moulton	Pete Loucks
Fabien Lengelle	Shawn Martin
Amanda Morelli	Sandra LeBarron
Wendy Leger	Gene Stakhiv
Christiane Hudon	Tony Eberhardt
Ian Crawford	Roger Gauthier
Lynn Cleary	
Steven Renzetti	
John Ching	
Sylvain Robert	
Jean-Francois Bibeault	
André Carpentier	
Doug Cuthbert	
Ed Eryuzlu	
Tom McAuley	

July 10, 2001 - Conference Call

Doug Cuthbert	Gene Stakhiv
Ian Crawford	Tony Eberhardt
Andre Carpentier	Mike Scanlin
Fred Parkinson	Roger Haberly
Steve Renzetti	Bill Werick
Ed Eryuzlu	
David Fay	
Wendy Leger	
Ralph Moulton	

June 12, 2001 - Board meeting in Cornwall, Ontario

Andre Carpentier	Sandra LeBarron
Doug Cuthbert	Pete Loucks
Henry lickers	Frank Quinn
Ed Eryuzlu	Tony Eberhardt
Ian Crawford	Dalton Foster
Fred Parkinson	Frank Sciremmamano
Lynn Cleary	Tom Bender
David Fay	Tom Crawley
Christiane Hudon	Tom Bender
Wendy Leger	
Jean-Francois Bibeault	

August 22, 2001 - Conference Call

Doug Cuthbert	Dalton Foster
Lynn Cleary	Pete Loucks
Fred Parkinson	Sandra LeBarron
Andre Carpentier	Frank Sciremammano
Ed Eryuzlu	Tony Eberhardt
Amanda Morelli	
Peter Yee	

October 4 2001 in Watertown, N.Y.

Andre Carpentier	Frank Sciremammano
Lynn Cleary	Eugene Stakhiv
Ian Crawford	Frank Quinn
Doug Cuthbert	Tony Eberhardt
Ed Eryuzlu	Dalton Foster
Steven Renzetti	Roger Haberly
Amada Morelli	Arleen Kreusch
Cristiane Hudon	Stephanie Weiss
Wendy Leger	Bill Werick
Ralph Moulton	Tom Bender
David Fay	Amy Lyttle
Alain Patoine	Tom Crawley
Ivan Lantz	Mike Scanlin
	Al Schiavon