153rd Meeting of the International Joint Commission Science Advisory Board held jointly with the Great Lakes Water Quality Board Niagara Falls, NY June 10-11, 2009

Meeting Record

Members Present

John Carey (Canadian Co-chair)	IL NY MI ON MI OH ON , IL
William Bowerman	NY ON PQ ON MN
Peter Boyer (Secretariat)	RO RO RO

1. Call to Order: CoChairs Gulezian, Vollmershausen, Carey, and Donahue called the meeting to order, indicating that the primary purpose of the meeting is to review the WG reports on 2007 – 2009 IJC Priorities. Brief self introductions of the members followed.

2. WG Presentations and Discussion:

Comments are as follows:

Eutrophication

- additional work will be done over the summer to add to the report (finishing literature review, completing consensual map, and technical report)
- need to complete analysis of linkages for WOE report (hopefully by the end of the summer)
- may not change no regrets management
- the completed technical report will have much more detail
- in the next 2-3 months substantial work will be done
- has there been an increase in P or a change in the soluble reaction P ratio? need a summary in front to help people understand (challenge to explain to the public)
- the point of the entire report is to understand eutrophication and there is still a large amount to learn
- this is a pilot project for WOE for commissioners (not sure if this report is the right vehicle to report on that)
- there is a need for people to reconnect to the lakes
- current load reduction targets may be too high, and may need to be reduced further in a revised Agreement
- need to communicate understanding of what is going on in the lakes
- eutrophication may need to be approached in a different way
- if we never have high WOE we will never have management intervention

Nearshore Framework

- mechanisms, coordination, knowledge and research Question: Do we have the institutional arrangements necessary to address the nearshore?
- need better monitoring framework (nearshore part of the LaMP's)
- need to establish a biomonitoring program
- develop a database for reference areas

- a monitoring index could help identify areas in good condition (need to be protected) or bad areas
- index could help convey diagnostic info about the problem
- need to respond to different problems on small and large scales (flexible institutional arrangements)
- prevention is worth more than a cure
- it is not just about curing but also protecting those areas in good condition
- need extensive set of reference systems (which may be difficult because each of the Great Lakes is extremely unique)

Beaches and Recreational Water Quality

- when beaches are overrun with algae the beach may not be closed but people still avoid swimming there
- add issue of predictive models
- add prevention of human pathogens from being there in the first place
- birds and wildlife contamination issue not in the paper (cannot attribute what percentage each contribute for the commissioners)
- suggest using weather forecasting to predict overflows and use that as a preventative method
- should lean towards real time management rather than retrospective measurements
- WHO has used the Annapolis Protocol
- need to get more specific with indicators or use beach specific tools (need to pinpoint that)
- need to look farther into algae and human pathogen relationship
- discuss how we really define a beach (Detroit river has no classified beaches)
- be careful not to dismiss non –human pathogens
- broader need for forecasting (inability to understand hydrodynamic structures)

Chemicals of Emerging of Concern

- recommend that the U.S. be part of the International Conventions for addressing CEC's
- concerned that the public will see the list of chemicals and not realize that some are only in trace amounts (need help communicating this)
- issue of adequacy of screening criteria PFOS/PFOA could be an example
- need to emphasize prevention rather than a cure
- regulation by mode of action needs better explanation, perhaps with an example
- need to research the amount of these chemicals are going through the human system before disposal
- look into controlling release in the body to prevent waste

- need to do a better job in treating waste water
- the report may be too general it may need an executive summary and the reference appendices
- what is the nearshore context for CEC's? e.g. what are the concentrations near water intakes?

<u>Great Lakes Fish Consumption – Risks and Benefits</u>

- fish consumption is never compared to poultry or beef (N.B. comparative risk assessment is not used to compare different risks)
- need more funding for research
- report focuses on PCB's and methyl mercury which has been researched but we may need more research on others
- error, saying Great Lakes fish do not harm human health
- there is no data on Omega-3 fatty acids in Great Lakes fish
- need to bridge information gaps
- look into the use of fish lower on the food chain
- there will be more pressure to increase Great Lakes farmed fish stocks as ocean stocks reseed

Aquatic Invasive Species Binational Rapid Response Policy Framework

- surveillance piece is a very important part
- need to know response options
- in many cases there is no opportunity for rapid response
- need to do risk assessment if "nuclear" option were to be used
- the fisheries act may make it illegal to use anything toxic

RECOMMENDATIONS FOR EDITING

- any recommendations should go directly to the secretaries
- need to remember that the commissioners are the ones we are writing for
- possible meeting in September to bring recommendations together
- nearshore framework group should put something together
- all reports need to be labeled the same
- July 31st hand in template reports
- a final schedule review would be circulated following the meeting under cover to allow for additional review time by the Boards
- need to get it out to the public weeks before the biennial

3. Other Business:

GLRO Human Resources – The issue of additional human resources to support Board activities was raised and concern was expressed that the capacity of the GLRO was unsatisfactory with known and impending retirements. Acknowledgement – The soon to be retiring Secretary of the SAB was recognized and thanked for his service to the Board and the IJC.

4. **Adjournment:** There being no further business the meeting adjourned at 5 PM.