

Manuscript: Chapter 7 – Feasibility and Implications of Restoring Upper Great Lakes Water Levels

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Name of Reviewers: Peggy Johnson and Robert Halliday

1. Are the objectives of the work clearly stated? 1 **2** 3 4 5
2. Are the methods employed valid, appropriate and sufficient to address the questions, hypotheses or the problem? 1 **2** 3 4 5
3. Are the observations, conclusions and recommendations supported by the material presented in the manuscript (e.g., data, model and analyses)? 1 **2** 3 4 5
4. Are the assumptions used valid and are the mathematics presented correct? 1 **2** 3 4 5
5. Is the manuscript well organized, material precise and to the point, and clearly written using correct grammar and syntax? **1** 2 3 4 5
6. Are all of the figures and tables useful, clear, and necessary? **1** 2 3 4 5
7. What is the quality of the overall work? 1 **2** 3 4 5

Recommendation (please circle your response)

A - acceptable

B - acceptable with suggestions for revision

C - acceptable if adequately revised

D - unacceptable

If you have selected **C**, do you wish to receive the revised manuscript for further review?

yes no

Rating (Circle the rating you would like to give this manuscript. Unacceptable work should be given a score of 40 or less.)

100 90 **85** 80 70 60 50 40 30 20 10 0

Comments (limit responses to one paragraph for each question; reference pages, charts, and data. Please distinguish if responses are of major or minor concerns.)

A. What is the best/most unique part of the analysis?

This chapter represents a concise summary of structural options that could contribute to restoration of Lake Michigan-Huron water levels. The figures, tables and key points at the end of the chapter are useful.

B. What is the most critical aspect of the study/analysis? Why?

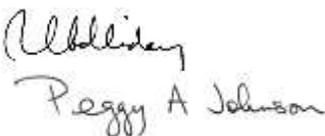
The chapter contains clear statements of restoration scenarios and the restoration impacts of each structural option.

C. Which aspect of the analysis/modeling is weakest? Why? How can it be improved?

None

D. Are there any other suggestions that are related to how this analysis may be used more effectively or the results explicated in a more understandable manner?

Please indicate any confidential comments to the Co-Chair(s) of the Independent Peer Review Group in the space below. Comments for transmission to the author(s) should be on a separate sheet attached.

Signature:  Date: Dec. 7, 2011

Comments for Transmission to Authors

It would be useful to have both general comments and specific comments for major and minor revision. Please use additional sheets should they be required.

Although these items are discussed later in the report, we think it would be useful to add a paragraph to the end of 7.1.1 that flags the exploratory nature of this chapter. The potentially significant environmental consequences of some options could also be highlighted.

Section 7.3 presents various options for water level restoration. In some cases examples are provided where a specified approach has been used. We would encourage the authors to add additional examples of similar installations and their success/failure where feasible. This comment would particularly apply to the hydrokinetic turbines.