

**Capitol Lake and Puget Sound.
An Analysis of the Use and Misuse of the Budd Inlet Model.**

8. REFERENCES.

AHSS 2014. "Alliance for a Healthy South Sound" meeting, July 17 2014.

Ahmed, Anise and Greg Pelletier. 2014. Presentation to AHSS group, July 17 2014; cites an updated Redfield ratio (mass C to mass N in organic matter) as 7x; that is, mg C = 7x mg N. (See AHSS 2014 above)

Ahmed, Anise, Greg Pelletier, Mindy Roberts, and Andrew Kolosseus. 2013. South Puget Sound Dissolved Oxygen Study. Water Quality Model Calibration and Scenarios. DRAFT. Wa. State Dept. of Ecology Olympia, WA. (*SPSDOS 2013*. I refer to the draft issued for external review October 10, 2013. I have not seen the final product.)

Ahmed, Anise, Greg Pelletier, and Mindy Roberts. Pers. comm. March 20, 2014. Response to questions by D. H. Milne. With copy to Lydia Wagner, Department of Ecology Water Quality Program.

Aura Nova Consultants, Inc., Brown and Caldwell, Evans-Hamilton, J. E. Edinger and Associates, Ecology, and the University of Washington Department of Oceanography. 1998. Budd Inlet Scientific Study Final Report. Prepared for the LOTT Partnership, Olympia, Washington. (*The "BISS Report."*)

BISS Report 1998. Budd Inlet Scientific Study. See Aura Nova Consultants ... above.

CH2M-Hill (consultants) 1978. Water Quality in Capitol Lake. Olympia, Washington. A Report prepared for the State of Washington Departments of Ecology and General Administration. Ecology Publication no. 78-e07. June, 1978.

Clark, Dave [HDR, Spokane Office]. 2016. Pers. Comm. to R. Wubbena (CLIPA) January 28, 2016.

CLIPA (Capitol Lake Improvement and Protection Association) 2010. Historic photos on CLIPA website. www.savecapitollake.org/gallery/index.html

"DeMeyer Data." ~2010. See Appendix B.

Eld Inlet Spreadsheet. Provided by D. Cheney, Pacific Shellfish Institute. 2015. Studies of Summer Mortality in Pacific Oysters. Research conducted by PSI in Eld Inlet and elsewhere, 1998-2000. Progress Report to NOAA Sea Grant Program.

Entranco, 1997. 1997 Capitol Lake Drawdown Monitoring Results. Report Prepared for the Capitol Lake Adaptive Management Plan [=CLAMP] Steering Committee. 10900 NE 8th Street, Suite 300. Bellevue, WA.

Frodge, Jonathan. Review Comments of Jonathan Frodge on ... (Milne, 2014 below). Prepared for Scott Stelzner, Fisheries Biologist of the Squaxin Island Indian Tribe (about) August, 2014. Available at the CLIPA website < www.savecapitollake.org/contact/clipa.html >.

Havens, Jack. Pers. comm. November 2015. Question and Answer at a Meeting of the Alliance for a Healthy Sound Council on November 12, 2013, after a report "Dissolved Oxygen Report Presentation."

Hayes, Marc P., Timothy Quinn and Tiffany L. Hicks. 2008. Implications of Capitol Lake Management for Fish and Wildlife. Report prepared for Capital (*sic*) Lake Adaptive Management Program Steering Committee by The Washington Department of Fish and Wildlife.

“HDR Memorandum.” Roe, Patrick, and Shirley Marroquin. Nov. 6, 2013. Draft Technical Review Comments on Washington Ecology’s Water Quality Modeling of Puget Sound. [Comments on the SPSDOS 2013 Draft Report that asks whether any simulation can tell us with confidence that DO levels would be 0.2 mg/L lower than some postulated “natural” level in the past, and other cogent questions.] 4 pp. [HDR, 500 108th Ave. NE Suite 1200, Bellevue WA 98004-5549.]

Horne, Alexander J., and Charles R. Goldman. 1994. Limnology (Second Edition). McGraw Hill, New York. 576 pp.

Keller, Gerald. 2001. Applied Statistics with Microsoft Excel. Duxbury Thomson Learning, Pacific Grove CA. 670 pp.

Kolosseus, Andrew. Pers. comm. 2014 TMDL Meeting. “Matlab” scale label in certain TMDL Appendix graphs = “mg/L.”

Mann, K. H. 1982. Ecology of Coastal Waters. A Systems Approach. Studies in Ecology, Volume 8. Univ. Cal. Press, Berkeley. 322 pp.

Milne, D. H. 2014. Capitol Lake: Protector of Water Quality in Budd Inlet. Results of a scientific investigation conducted for the Capitol Lake Improvement and Protection Association. Available at CLIPA Website www.savecapitollake.org/documents/protector-water-quality.html 41 pp.

Milne, D. H. 2015. Capitol Lake: The Healthiest Lake in Thurston County. Available on CLIPA website www.savecapitollake.org/documents/healthiest-lake.html.

Mohamedali, Teizeen, Mindy Roberts, Brandon Sackman, Anthony Whiley and Andrew Kolosseus, South Puget Sound Dissolved Oxygen Study: Interim Nutrient Load Study, 2011. Wa. Dept. of Ecology Publication No. 11-03-001. Available on line at www.ecy.wa.gov/biblio/1103001.html

Orsborn, John F., Jerry E. Ongerth, Gary C. Bailey, Surinder K. Baghat, William H. Funk, Claud C. Lomax, and Walter C. Mih. 1975. Hydraulic and Water Quality Research Studies and Analysis of Capitol Lake Sediment and Restoration Problems. A Report Prepared for the State of Washington Department of General Administration. Olympia, Washington. Project 7374/9, 12-1310.

Poster 2014. Ahmed, Anise, Greg Pelletier, and Mindy Roberts. Undated [probably 2014]. Anthropogenic Dissolved Oxygen Impacts in Budd Inlet: Comparing Influences from a Lake or Estuary. Wa. Dept. of Ecology, Olympia. Publication No. 14-03-021.

“Power Point OK.” 2014. The TMDL Budd Inlet Model: Room for Improvement? Presentation by D. Milne at meeting of AHSS, July 17 2014. Copy delivered to WDOE staff and others.

“Power Point OK2.” 2014. Modeling Budd Inlet. II. Sharpening and Validating the Tools. Presentation by D. Milne to WDOE staff and others. November 3, 2014.

Roberts, M., J. Bos and S. Albertson. 2008. South Puget Sound Dissolved Oxygen Study: Interim Data Report. Washington State Department of Ecology Publication No. 08-03-037. <https://fortress.wa.gov/ecy/publications/SummaryPages/0803037.html>

Roberts, Mindy, Anise Ahmed, Greg Pelletier, and David Osterberg. 2012. Deschutes River,

Capitol Lake, and Budd Inlet Temperature, Fecal Coliform Bacteria, Dissolved Oxygen, pH, and Fine Sediment Total Maximum Daily Load Technical Report. Water Quality Study Findings. Publication No. 12-03-008. Wa. Dept. Ecology (DOE), Olympia WA. Available on line at <www.ecy.wa.gov/biblio/1203008.html>. (*TMDL Report and TMDL Appendices, 2 volumes.*)

Roberts, Mindy, Greg Pelletier and Anise Ahmed. 2015. Deschutes River, Capitol Lake, and Budd Inlet. Total Maximum Daily Load Study. Supplemental Modeling Scenarios. WDOE Publication No. 15-03-002. (The “SM Report”.)

“SM Report 2015.” Full citation is Roberts, Pelletier and Ahmed, 2015, above.

SPSDOS 2011. “South Puget Sound Dissolved Oxygen Study.” See Mohamedali and others 2011 above for full citation.

SPSDOS 2013. See Ahmed, Pelletier, Roberts and Kolosseus 2013 (above) for full citation.

“TMDL Report 2012”. See Roberts, Ahmed, Pelletier and Osterberg (2012), above.

TMDL Appendix. A second volume that accompanies Roberts and others (2012) above. Appendices A & B (Glossary and Acronyms/Abbreviations) included with the TMDL Report. Appendices C – M available on line at the site shown for Roberts et al (2012), also in printed form by request to the WDOE.

Thurston County Public Health and Social Services Department and others. 2011? Water Resources Monitoring Report. 2009-2010 Water Year. Thurston Co. Pub. Health & Soc. Services Dept, Olympia, WA. Available on line at <www.co.thurston.wa.us/ehrp/pdf/AR10-11/AR09-10_10-11.pdf>.

TCPHSS August 2012. Thurston County Water Resources Monitoring Report. 2009-2010 and 2011-2012 Water Years. Capitol Lake pp 66-82. Olympia, WA. Available on line at <http://www.co.thurston.wa.us/health/ehrp/pdf/AR10-11/AR09-10_10-11.pdf>

If possible, it is most instructive to read the most recent Capitol Lake chapter in TCWR available (at the time of this writing, 2014). The descriptions include recent developments which are updated yearly. (TCPHSS = Thurston County Public Health and Social Services Department.)

WDOE List. 2015. The following enables a user to identify water bodies designated as “303d” in accordance with the Clean Water Act of the EPA. Using the Google search tool, 1) enter (“Google”) < *Water Quality Assessment and 303(d) List* >. A page of choices appears. 2) On that page select [“click” and Return] *Water Quality Assessments (303[d]) Water Quality ...* A Department of Ecology page comes up. On it “click” on *Current EPA-Approved Marine Assessment and 303(d) list* . 3) On the page that comes up, click on the Map icon. On the map that comes up, enlarge the view over the Capitol Lake area. As the view approaches the ground, the water bodies (including Capitol Lake) with 303d listings are shown in red. Click on any of the red water bodies for details of their listings.

Vaquer-Sunyer, Raquel, and Carlos M. Duarte. 2008. Thresholds of hypoxia for marine biodiversity. *PNAS* 105(40): 15452-15457.