City of Seattle

Notice of Appointment

Name: ***Leo Bodensteiner***		☒ **Executive Appointment** ☐ **Reappointment** ☐ **Legislative Appointment** ☐ **Agency Appointment** ☐ **PDA Council** ☐ **PDA Constituency**
Residential Neighborhood: *Bellingham, WA*	**Zip Code:** *98225*	**Contact Phone No.:** 360 650-7375
Appointed to: *Skagit Environmental Endowment Commission*		**Date of Appointment:** *August 10, 2012*
Authority (Ord., Res.): *High Ross Treaty and Agreement* *Ordinance # 111530*		**Term of Office** **From:** *August 10, 2012* **To:** *August 9, 2016*

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CITY OF SEATTLE
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CITY CLERK

Background:

This is a new appointment as Alternate Commissioner

Leo Bodensteiner received an M.A. and Ph.D. in Zoology, emphasizing Fish Ecology, Behavior, and Physiology, from Southern Illinois University in 1991. In 1994 he and his family moved to Bellingham from Carbondale, Illinois where he was a post-doctoral researcher studying the ecology of fish during winter on the upper Mississippi River. Since then he has been a faculty member at WWU in Huxley College of the Environment, teaching in the Department of Environmental Sciences and advising undergraduate and graduate students with interests in aquatic ecology. During the past nine summers he has taught a fly fishing/stream ecology course that enrolls both university students and community members. Since 2008 he and his students have been spending part of each summer in North Cascades National Park with Park Service professionals, assessing alpine lakes as well as the Skagit River reservoirs. He has received grant support for his research from federal, state, and tribal sources, and his results have appeared in a variety of technical aquatic ecology journals.

Authorizing Signature:	**Name and Title of Officer Making Appointment:** Mayor Mike McGinn

Curriculum Vita - Leo Bodensteiner

Associate Professor and Chair
Department of Environmental Sciences
Huxley College of the Environment
Western Washington University
Bellingham, Washington 98225-9181
360 650-7375
Leo.Bodensteiner@wwu.edu

Education

Ph.D., Zoology with minor in Physiology, Southern Illinois University at Carbondale, 1991
M.A., Zoology, Southern Illinois University, 1986
B.A., Biology with minor in Chemistry, Moorhead State University (Minnesota State University at Moorhead), 1979.

Academic History at Western

Chair, Dept. of Environmental Science, 2008-present
Graduate Program Advisor, Dept. of Environmental Science, 2003- 2007
Associate Professor, Dept. of Environmental Science, 2000- present
Assistant Professor, Center for Environmental Sciences, 1995- 2000
Visiting Assistant Professor, Center for Environmental Sciences, 1994-1995

Teaching (1994-2011) Limnology (18 qtrs); Limnology Laboratory (18 qtrs); Stream Ecology (2 qtrs and lab 3 qtrs); Environmental Impact Assessment (7 qtrs); Wetlands Ecology (3 qtrs); Water Quality (3 qtrs); Water Quality Laboratory (3 qtrs); Environmental Biology of Fishes (13 qtrs); Forest and Fish Assessment (previously Investigations in Fish Ecology Lab) (10 qtrs); Fisheries Management Laboratory (9 qtrs); Environmental Disturbances (Pollution) (9 qtrs); Environmental Systems (2 qtrs); Fundamentals of Ecology (8 qtrs); Explorations in Environmental Studies (2 qtrs); Topics in Environmental Studies (3 qtrs); Art, Science and Ethics of Flyfishing (7 qtrs – summer)

Other — *Home Port Learning Center*, Bellingham, 2006: taught a two-week/half-day stream ecology and flyfishing module in alternative high school program for adjudicated youth; various other offerings to high schools in Whatcom County

Advising — *Western's Summerstart*: advisor for five years; faculty welcome to students and parents two years; introduction to university classes three years
Environmental Science: faculty advisor to 20-25% of undergraduate majors prior to assuming chair position

Awards — *2007 – Excellence in Teaching award* (one of two per year at Western)
2006 – My summer course Environmental Science 315: Art, Science, and Ethics of Flyfishing (3 qtrs) was selected by the North American Association of Summer Sessions as one of three finalists in the innovative and creative programs category based on creativity; uniqueness; benefit to students; university, and/or

community; and adaptability to other institutions

Research (1995-2011) Supervised 21 M.S. graduate students with topic areas including heterogenous distribution of fishes in eelgrass meadows; age determination in six-gill sharks; decompression syndrome in copper rockfish; trophic competition among redside shiners and native trout; environmental factors affecting freshwater mussel populations; assessment of stream habitat based on autopsy based assessment of fishes; role of habitat diversity in rivers in fish community structure; impacts of natural sources of metals on fish populations; relation of stream restoration to fish communities; barriers to fish distribution in streams; hydrological management to facilitate fish restoration; hyporheic chemistry as a cue to site selection by spawning coho salmon; factors associated with landslide hazards in small stream basins; development of age determination techniques for six-gill sharks

Selected Publications

Bodensteiner, L.R., and A. O. Gabriel. In Press. Ecosystem functions of mid-water stands of common reed in the Winnebago Pool Lakes, Wisconsin. Journal of Freshwater Ecology.

Watkins, J. (BS student) and L. Bodensteiner. 2010. Chromium in rainbow trout from an exposed dunite formation, Twin Sisters Mountain, Washington. Journal of Freshwater Ecology 25:495-498.

Kallis, J. (MS student), L. Bodensteiner, and A. Gabriel. 2010. Hydrological controls and freshening in meromictic Soap Lake, Washington, 1939-2002. Journal of the American Water Resources Association.

Gabriel, A.O., and L.R. Bodensteiner. 2009. Cumulative effects of gravel mining and barging operations, Jackson/Lafarge Beach, Washington, 1960-2003. Shore & Beach 77:9-18.

K.W. Mueller (MS student) and L.R. Bodensteiner. 2009. Shelter occupancy by mixed-species pairs of native signal crayfish and non-native red swamp crayfish held in enclosures. Journal of Freshwater Ecology 24:66-76.

Bodensteiner, L.R., and A. Gabriel. 2003. Response of mid-water common reed stands to water level variations and winter conditions in Lake Poygan, Wisconsin, USA. Aquatic Botany 76:49-64.

Hu, Shunfu, A.O. Gabriel, and L.R. Bodensteiner. 2003. Inventory and characterization of wetland habitat on the Winnebago Upper Pool Lakes, Wisconsin, USA: an integrated multimedia-GIS approach. Wetlands 23:82-94.

Gabriel, A., and L.R. Bodensteiner. 2002. Historical changes in mid-water stands of common reeds in the Winnebago Pool Lakes, Wisconsin. Journal of Freshwater Ecology 17:563-573

Thomas, J.F., L.R. Bodensteiner, T.J. Hall, A.M. Obery, and W.G. Landis. In review. Confirmation of a relative risk model ecological risk assessment of multiple stressors using multivariate statistics. Environmental Toxicology and Chemistry.

Bodensteiner, L.R., R.J. Sheehan, W.M. Lewis, A.M. Brandenburg, and P.S. Wills. 2000. Flowing water: An effective treatment for ichthyophthiriasis. Journal of Aquatic Animal Health 12:209-219.

Landis, W.G., M. Luxon, and L.R. Bodensteiner. 1999. Design of a relative risk model regional-scale risk assessment with confirmational sampling for the Willamette and McKenzie Rivers, Oregon. Ninth Symposium on Environmental Toxicology and Risk Assessment: Recent Achievements in Environmental Fate Transport, ASTM STP1381 F.T. Price, K.V. Brix, and N.K. Lane, editors, American Society for Testing and Materials, West

Conshohocken, Pennsylvania, 2000.

Bodensteiner, L.R., W.G. Landis, and A.J. Markiewicz. 1998. A regional comparative multiple-stressor ecological risk assessment. Proceedings of the Annual Meeting of the Society for Environmental Toxicology and Chemistry, Denver, Colorado.

Landis, W.G., L.R. Bodensteiner, and J.F. McLaughlin. 1998. The relative rank risk model for regional-scale risk assessment and potential applications in freshwater and terrestrial systems. Proceedings of the Risk Assessment of Environmental End Points Workshop, Auckland, New Zealand.

Bodensteiner, L.R., and W.M. Lewis. Effects of length of exposure on minimum lethal temperatures for the gizzard shad. Accepted by Transactions of the American Fisheries Society.

Bodensteiner, L.R., and W.M. Lewis. 1994. Downstream drift of fishes in the upper Mississippi River during winter. Journal of Freshwater Ecology 9:45-56.

Bodensteiner, L.R., R.J. Sheehan, W.M. Lewis, P.S. Wills, and R.W. Herman. 1993. Effects of repetitive formalin treatments on channel catfish juveniles. Journal of Aquatic Animal Health 5:59-63.

Bodensteiner, L.R., and W.M. Lewis. 1992. Role of temperature, dissolved oxygen, and backwaters in the winter survival of freshwater drum (Aplodinotus grunniens) in the Mississippi River. Canadian Journal of Fisheries and Aquatic Sciences 49:59-70.

Bodensteiner, L.R., R.J. Sheehan, and W.M. Lewis. 1990. Differences in the physical environment of the Upper Mississippi River as a factor in overwinter survival of fish. Restoration of Midwestern Stream Habitat, a symposium held at the 52nd Midwest Fish and Wildlife Conference, December, 1990, Minneapolis, Minnesota.

Sheehan, R.J., L.R. Bodensteiner, W.M. Lewis, D. E. Logsdon, and S.D. Scherck. 1990. Long-term survival and swimming performance of young-of-the-year river fishes at low temperatures: links between physiological capacity and winter habitat requirements. Restoration of Midwestern Stream Habitat, a symposium held at the 52nd Midwest Fish and Wildlife Conference, December, 1990, Minneapolis, Minnesota.

Bodensteiner, L.R., and R.J. Sheehan. 1988. Implications of backwater habitat management strategies to fish populations. Invited Paper. Proceedings of the Upper Mississippi River Conservation Committee 44:60-65.

Publication work in progress

Bodensteiner, L.R., and A.O. Gabriel. Nearshore effects of offshore protection structures on aquatic habitat, Winnebago Pool Lakes, Wisconsin. To be submitted to Wetlands.

Diehlman, T. and L.R. Bodensteiner. Riverine backwaters as refuges for non-native warmwater fishes in the Willamette River, Oregon. To be submitted to North American Journal of Fisheries Management.

Gabriel, A.O., and L. R. Bodensteiner. Ecological effects of shore protection structures, Winnebago Pool Lakes, Wisconsin. To be submitted to Wetlands.

Professional presentations and posters as author or co-author

Current and Historical Limnological Conditions of Soap Lake, Washington. Washington Lake Protection Association, Annual Conference, August, 2004.

Current and Historical Limnological Conditions of Soap Lake, Washington. Northwest Science, Annual Conference, March 2004.

Sensitive shoreline assessment for the Winnebago Pool Lakes, Wisconsin: a multimedia database. Canadian Association of Geographers 53rd Annual Meeting, May 27- 31, 2003, University of Victoria, Victoria, B.C.

Nearshore effects of shore protection on aquatic habitat in the Winnebago Pool Lakes, Wisconsin. Washington Lake Protection Association 16th Annual Conference on Lakes, Reservoirs and Watersheds, Chelan, Washington, April 2-4, 2003.

Sensitive shoreline assessment: a multimedia decision support tool. Georgia Basin/Puget Sound Research Conference, March 31- April 3, 2003, Westin Bayshore, Vancouver, B.C.

Dilution and concentration of saline lakes: limnology of Soap Lake. Saline Lakes Science Conference 2002, Soap Lake, Washington, August 26-27, 2002.

Management effects on Soap Lake limnology. Washington Lake Protection Association 15th Annual Conference on Lakes, Reservoirs and Watersheds, Olympia, Washington, April 4-7, 2002.

The effects of wetland restoration breakwaters on water quality and fish communities in two Wisconsin lakes. Washington Lake Protection Association 15th Annual Conference on Lakes, Reservoirs and Watersheds, Olympia, Washington, April 4-7, 2002.

Resource management issues in a hyper-eutrophic midwestern lake system. Washington Lake Protection Association 14th Annual Conference on Lakes, Reservoirs and Watersheds, Spokane, Washington, April 4-7, 2001.

Design of a relative risk model regional-scale risk assessment with confirmational sampling for the Willamette and McKenzie Rivers, Oregon, Ninth Symposium on Environmental Toxicology and Risk Assessment: Recent Achievements in Environmental Fate Transport, 1999, West Conshohocken, Pennsylvania.

Assessment of Stress-Response to Water Level Fluctuations in Common Reed Stands, Lake Poygan, Wisconsin. Poster presented at the Annual Meeting of the Canadian Association of Geographers, June 2-6, 1998, University of Ottawa, Ottawa, Ontario.

A regional comparative multiple-stressor ecological risk assessment, Society for Environmental Toxicology and Chemistry Annual Meeting, 1998, Denver, Colorado.

The relative rank risk model for regional-scale risk assessment and potential applications in freshwater and terrestrial systems Risk Assessment of Environmental End Points workshop, October 28-30, 1998, Auckland, New Zealand.

A Conceptual Framework for Ecosystem Management of Rural-Urban Watersheds, Annual Meeting of the Canadian Association of Geographers, August 18-22, 1997, St. John's, Newfoundland.

Assessment of biocriteria as a regulatory standard, Illinois Association of Wastewater Agencies Conference, March, 1994, Springfield, Illinois.

The potential for coordination for fisheries and wildlife uses in moist-soil waterfowl management units, 32nd Illinois American Fisheries Society Meeting, March, 1994, Marion, Illinois.

Winter fish composition and structure in backwaters of the Upper Mississippi River, 53rd Midwest Fish and Wildlife Conference, December, 1991, Des Moines, Iowa.

Sampling for determining fish habitat guilds in large rivers during the winter, 27th Illinois Chapter American Fisheries Society Meeting, March, 1989, LaSalle, Illinois.

Implications of backwater habitat management strategies to fish populations, Invited Paper, 44th Annual Meeting of the Upper Mississippi River Conservation Committee, March, 1988, Peoria, Illinois.

Importance of riverine backwaters to winter survival of fishes,48th Midwest Fish and Wildlife Conference, December, Omaha, Nebraska.

Winter survival strategy of small freshwater drum (Aplodinotus grunniens R.) in the Mississippi River, Joint Meeting of the Illinois, Indiana, and Michigan American Fisheries Society Chapters, March, 1986, Chicago, Illinois.

Other presentations

Ecosystem function and restoration of common reed stands in Lake Poygan, Wisconsin, July, 2000, public presentation to Wisconsin Department of Natural Resources and Lake Poygan Sportsman's Club, Butte des Morts, Wisconsin.

A proposed sampling protocol for fish in small and large rivers for long-term biological assessment, presentation to NCASI National Science Advisory Panel, November, 1999, Hattiesburg, Mississippi.

Responses of midlake common reed stands to cumulative stresses, Lake Poygan, Wisconsin, University of Wisconsin-Oshkosh Sigma Xi Lecture Series, March, 1999, University of Wisconsin-Oshkosh, Wisconsin.

Wetland, sensitive shoreline, and hazard research on the Winnebago Pool lakes, Fox-Wolf Basin Surface Water and Shoreland Habitat Monitoring and Research Workshop, April, 1999, Lawrence University, Appleton, Wisconsin.

Cane bed research progress report: findings and potential for restoration, Key presentation at public meeting hosted by the Lake Poygan Sportsman's Club and Wisconsin Department of Natural Resources, May, 1998, Duck Inn, Lake Poygan, Wisconsin.

Research on the Winnebago Pool Lakes. Included a poster presentation entitled: Cane bed research, Winnebago Lakes' Fair '98. Sponsored by Fox Wolf Basin 2000 and Wisconsin Department of Natural Resources, June, 1998, Oshkosh Convention Center, Oshkosh, Wisconsin.

Reports

Bodensteiner, L.R., and A.O. Gabriel. 2005. Limnology of Soap Lake, Washington. National Science Foundation Grant Report.

Bodensteiner, L. R., and B. Bingham. 2004. Macroinvertebrate population abundance and distribution in the Nooksack River estuary, Whatcom County, Washington.

Gabriel, A. O., and L. R. Bodensteiner. 2000. Restoration and ecosystem functions of common reed stands in Lake Poygan, Wisconsin. Wisconsin Department of Natural Resources Lake Protection Grant Final Report.

Bodensteiner, L.R., and W.G. Landis. 2000. NCASI Year 2 report: June 15, 1999-June 14, 2000. Prepared for National Council for Air and Stream Improvement, Anacortes, Washington.

Bodensteiner, L.R., and W.G. Landis. 1999. NCASI Year 1 report: June 15, 1998-June 14, 1999. Prepared for National Council for Air and Stream Improvement, Anacortes, Washington.

Bodensteiner et al. for EVS Consultants. 1999. Cherry Point screening level risk assessment. Prepared for Washington Department of Natural Resources.

Gabriel, A.O., and L. Bodensteiner. 1998. Assessment of Stress-Response to Water Level Fluctuations in Common Reed Stands, Lake Poygan, Wisconsin. Wisconsin Department of Natural Resources Lake Planning Grant Report.

Bodensteiner, L., and B. Webber. 1997. Terrestrial and aquatic resources at Squires Lake. Report to Squires Lake Advisory Committee.

Sheehan, R.J., and L.R. Bodensteiner. 1995. Evaluation of proposed modification of Illinois water quality regulations: biological criteria, criteria for compounds that accumulate, bioaccumulative chemicals of concern, and requirements for whole-effluent toxicity testing. Metropolitan Water Reclamation District of Greater Chicago Research and Development Report No. 95-16.

Current and recently funded research projects

Bodensteiner. North Cascades National Park. Aquatic Resource Management. Support to conduct monitoring of alpine lake aquatic ecosytems; $75,000 ($43K to WWU & $32K in kind).

Bodensteiner and Nooksack Salmon Enhancement Association. Liam Wood Flyfishing and River Guardian School. Continued funding and in-kind support received from Patagonia, 4th Corner Fly Fishers, Sage, SAROC, and Bracken for stream ecology/flyfishing courses; ongoing; $20,000

Bodensteiner. Ecology of BP-Cherry Point. Funding provided for student research activities associated with British Petroleum Cherry Point Refinery; 1/06-12/08; $30,000

Bodensteiner. Limnology of Soap Lake. Senior Investigator on National Science Foundation project Microbial Observatory at Soap Lake: Biochemistry, Microbial Diversity, and Productivity of Anaerobic Haloalkaliphilic Communities (submitted with Pinkart, H.C., M.R. Mormille, B.M. Peyton, A.O. Gabriel, M.C. Storrie-Lombardi, and D.R. Hosford), 07/02-07/05; $825,000 (Western sub-contract for $100,000)

Bodensteiner and Gabriel. Evaluation of a large-scale shoreline protection and restoration project, Lake Poygan, Wisconsin. U.S. Corps of Engineers; 6/01-12/01; $43,000.

Bodensteiner and Landis. Application of a multiple stressor framework to discriminating between anthropogenic impacts to aquatic biological communities. National Council for Air and Stream Improvement of the Paper and Pulp Mill Industry; 1998-2001; $240,000

Gabriel, Bodensteiner, and Hu. The Application of the ABC Resource Survey Method, GIS, and and Integrated Multimedia Approach to Sensitive Shoreline Designation on the Winnebago Pool Lakes, Wisconsin. DNR Shallow Lakes Funding Program Grant; 7/99- 7/01; $58,000

Gabriel and Bodensteiner. Effects of Offshore Protection on Aquatic Habitat in the Winnebago Pool Lakes. DNR Shallow Lakes Funding Program Grant; 7/99 - 9/01; $30,000

Gabriel and Bodensteiner. Nearshore Effects of Shoreline Protection on Aquatic Habitat in the Winnebago Pool Lakes. DNR Shallow Lakes Funding Program Grant; 7/99 - 9/01; $15,000

Bodensteiner and Gabriel. Restoration and Ecosystem Function of Common Reed Stands in Lake Poygan, Wisconsin. DNR Lake Protection Grant (co-authored for Lake Poygan Sportsman's Club); 5/99-9/00; $22,000

Gabriel and Bodensteiner. Assessment of Stress-Response to Water Level Fluctuations in Common Reed Stands, Lake Poygan, Wisconsin. DNR Lake Planning Grant (co-authored for Lake Poygan Sportsman's Club); 5/97-3/98; $13,000

Summers and Bodensteiner. Large Fishes of Whatcom Waterway, Bellingham Bay. Georgia Pacific, Inc., 7/96-6/97, $3,500.

Memberships and Certifications

American Fisheries Society, Life member

Sigma Xi Scientific Research Society, past president of local chapter

Washington State Lake Protection Association, past board member
Liam Wood Flyfishing and River Guardian School, board member
Soap Lake Science Advisory Board – 5 years
Phi Kappa Phi National Honor Society
PADI and NAUI Certified Open Water Diver

Skagit Environmental Endowment Commission

Eight US members: Per *"High Ross Treaty"*, not subject to City Council confirmation, *four*-year terms. Seattle Ordinance # 111530 accepted the Treaty and Agreement.

- *0* Appointed by City Council
- *8* Appointed by Mayor
- *8* Appointed by BC Premier, not shown here

D*	G	Position No.	Name	Appointed	Term Ends	Term #	Position	Appointed By
6	M	1	Leo Bodensteiner	8/10/12	8/9/16	1	Alternate Commissioner	Mayor
4	M	2	Larry Campbell	11/4/2009	7/1/2013	1	Commissioner	Mayor
6	F	3	Michelle Connor	8/10/12	8/9/16	2	Commissioner	Mayor
6	M	4	Gerry Cook	8/10/12	8/9/16	1	Alternate Commissioner	Mayor
6	M	5	James Davis	11/4/11	9/19/15	1	Alternate Commissioner	Mayor
1	M	6	James Hattori	11/4/11	9/19/15	2	Commissioner	Mayor
6	F	7	Alison Studley	11/12/09	7/1/13	2	Alternate Commissioner	Mayor
6	F	8	Jennifer Watkins	8/10/12	8/9/16	2	Alternate Commissioner	Mayor

***Diversity**

	Men	Women	Vacant	Minority	(1) Asian-American	(2) African-American	(3) Hispanic Latin@	(4) Native-American	(5) Other**	(6) Caucasian
Mayor	5	3		2	1			1		6
Council										
Other Bodies										
Total	5	3		2	1			1		6

***Other includes diversity in any of the following: race, gender and/or ability*