

Kelly Addy Lowder

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EDUCATION

M.S., 1997, Department of Natural Resources Science, University of Rhode Island.
B.S., 1995, Departments of Biology and Environmental Studies, Tufts University.

EXPERIENCE

Research Associate IV, Dept. of Natural Resources Science, Univ. of Rhode Island:
2002 - Present, Web Content Coordinator, USDA-CSREES National and New England Water Quality Program: <http://www.usawaterquality.org/>
2002 - 2005, Publications Specialist, URI Watershed Watch and the USDA-CSREES Volunteer Water Quality Monitoring National Facilitation Project
1998 - Present, Watershed Nitrogen Dynamics, URI Watershed Hydrology Lab
Water Quality Specialist, 1997 - 1998, Groundwater Biogeochemistry, Dept. of Natural Resources Science, Univ. of Rhode Island.
Graduate Research Assistant, 1995 - 1997, Dept. of Natural Res. Sci., Univ. of Rhode Island.

PROFESSIONAL ACTIVITIES

- Core Leadership Team Member for the proposed Drinking Water and Human Health eXtension Community of Practice
- Planning Committee, AWRA 2008 Summer Specialty Conference: Riparian Ecosystems and Buffers
- Communications Subcommittee Chairperson, CSL, NIWQP, 2002 - present
- American Water Resources Association Member, 2004 - present
- Conservation Commission Chairperson, Town of Coventry, RI; 2004-2005
- Conservation Commission Member, Town of Coventry, RI; 2001 – 2005
- URI Undergraduate Coastal Fellowship Program Mentor, 1996 – present
- Soil Science Society of America Member, 2000 – 2003

JOURNAL ARTICLE REVIEWER FOR:

- Journal of Environmental Quality, 2004
- Environmental Science and Technology, 2003
- Journal of the North American Benthological Society, 2000
- Wetlands, 2000
- Guest Associate Editor, Journal of Environmental Quality, 12/2002 - 2/2003

PROPOSAL REVIEWER FOR:

- Binational Agricultural Research and Development (BARD) Fund, 2004

GRANTS

Helped prepare and named formally in budget:

- The Northeast States and Caribbean Islands Regional Water Program. 2008-2012. USDA-CSREES NIWQP. \$1,080,000.
- Advancing watershed N management at the local level: Incorporating stream reach ecosystem N sinks into a spatial decision support system. 2007-2010. USDA-CSREES NIWQP. \$600,000.
- Controlling nitrate pollution from agriculture and rural sources in Rhode Island to protect groundwater and coastal waters. 2007-2010. USDA-NRCS. \$137,500.
- Targeting riparian management to enhance in-stream nitrogen removal. 2006-2009. RI Agricultural Experiment Station McIntire-Stennis. \$73,500.
- Enhanced infiltration for animal waste treatment. 2006-2009. USDA-NRCS. \$75,000.
- Evaluating in-stream denitrification: Pilot studies and site characterization. 2005-2007. USDA-NRI. \$95,000.
- Enhancing the Extension Volunteer Monitoring Network: Renewal Proposal for the National Facilitation of CSREES Volunteer Monitoring Efforts. 2004-2008. USDA-CSREES. \$399,000.
- New England Regional Water Quality Program. 2004-2007. USDA-CSREES. \$606,867.
- Riparian sinks for mitigating septic system contamination in urbanizing coastal watersheds. 3/2004 – 2/2006. \$249,806. Rhode Island Sea Grant.

PEER-REVIEWED PUBLICATIONS (2004 - Present)

Kellogg, D.Q., A.J. Gold, P.M. Groffman, M.H. Stolt, and K. Addy. 2008. Riparian ground-water flow patterns using flownet analysis: Evapotranspiration-induced upwelling and implications for N removal. *Journal of the American Water Resources Association*. 44(4):1024-1034.

Clough T.J., K. Addy, D.Q. Kellogg, B.L. Nowicki, A.J. Gold, and P.M. Groffman. 2007. Dynamics of nitrous oxide in groundwater at the aquatic-terrestrial interface. *Global Change Biology* 13:1528–1537.

Addy, K., A. Gold, B. Nowicki, J. McKenna, M. Stolt, and P. Groffman. 2005. Denitrification capacity in a subterranean estuary below a Rhode Island (USA) fringing salt marsh. *Estuaries*. 28(6):896–908.

Kellogg, D.Q., A.J. Gold., P.M. Groffman, K. Addy, M.H. Stolt. and G. Blazejewski. 2005. In situ ground water denitrification in stratified, permeable soils underlying riparian wetlands. *Journal of Environmental Quality* 34:524-533.

Rotkin-Ellman, M., K. Addy, A.J. Gold and P.M Groffman. 2004. Tree species, root decomposition and subsurface denitrification potential in riparian wetlands. *Plant and Soil* 263:335-344.

PUBLISHED ABSTRACTS (2004 - Present)

Milliman, A.J., K. Addy, A.J. Gold, and D.Q. Kellogg. 2008. In-Stream Denitrification: Pilot Studies and Site Characteristics on a Headwater Stream. USDA CSREES National Water Conference, Sparks, NV.

Addy, K., A. Gold, M. Stolt, and P. Groffman. 2007. Groundwater Denitrification Below Filled Salt Marshes. *Proceedings of the Estuarine Research Federation*, page 1. Providence, RI.

- Gold, A., D.Q. Kellogg, K. Addy, P. Groffman, and L. Joubert. 2007. Managing Watershed Nitrogen Export at the Local Level: Accounting for Nitrogen Sinks. Proceedings of the Estuarine Research Federation, page 73. Providence, RI.
- Milliman, A.J., A.J. Gold, K. Addy, D.Q. Kellogg, and B. Nowicki. 2007. In-stream Denitrification: Pilot Studies and Site Characteristics. 2007 National Water Program Conference. USDA-CSREES
- Clough, T., K. Addy, D. Kellogg, B. Nowicki, A. Gold, P. Groffman. 2006. Dynamics of N₂O in groundwater at the aquatic-terrestrial interface. SSSA Abstracts. Indianapolis, IN.
- Addy, K., A.J. Gold, M.H. Stolt, and P.M. Groffman. 2006. Groundwater Nitrate Removal Capacity of Filled Salt Marshes, Eos Trans. AGU. 87(36), Jt. Assem. Suppl., Abstract B23A-05.
- Watson, T.K., A. Gold, K. Addy, M. Stolt, P. Groffman, and Q. Kellogg. 2006. Groundwater Nitrate Removal Capacity of Riparian Zones in Urbanizing Watersheds, Eos Trans. AGU. 87(36), Jt. Assem. Suppl., Abstract B23A-04.
- Watson, T.K., A. Gold, K. Addy, M. Stolt, P.M. Groffman, and D.Q. Kellogg. 2005. Groundwater nitrate removal capacity of riparian zones in urbanizing watersheds. SSSA Abstracts. Salt Lake City, UT.
- Kellogg, Q., K. Addy, A. Gold, P. Groffman, M. Stolt. 2005. Ecohydrology of riparian zones in Rhode Island and areas of the glaciated northeastern United States. IX INTECOL International Congress of Ecology. Montreal, Canada.
- Addy, K., A.J. Gold, B.L. Nowicki, M.H. Stolt, and P.M. Groffman. 2005. Groundwater denitrification capacity of Rhode Island estuarine riparian zones. Proceedings of the USDA-CSREES National Water Quality Conference, La Jolla, CA.
- Addy, K., A.J. Gold, B.L. Nowicki, M.H. Stolt, and P.M. Groffman. 2004. Groundwater denitrification capacity of Rhode Island estuarine riparian zones. SSSA Abstracts. Seattle, WA.
- Addy, K., A.J. Gold, B.L. Nowicki, M.H. Stolt, and P.M. Groffman. 2004. Groundwater denitrification capacity of Rhode Island estuarine riparian zones. Proceedings of the American Water Resources Association 2004 Summer Specialty Conference: Riparian Ecosystems and Buffers. Olympic Valley, CA.
- Kellogg, D.Q., A.J. Gold., P.M. Groffman, K. Addy, M.H. Stolt, and G. Blazejewski. 2004. Assessing riparian zones as sinks for catchment nitrogen flux. Proceedings of the American Water Resources Association. 2004 Summer Specialty Conference: Riparian Ecosystems and Buffers, Olympic Valley, CA.
- Gold, A., Q. Kellogg, P. Groffman, K. Addy, and M. Stolt. 2004 Site factors affecting riparian groundwater nitrate removal. Proceedings of the USDA-CSREES National Water Quality Conference, Clearwater, FL.

OTHER EXTENSION PAPERS, POSTERS, OR ABSTRACTS (2004-Present)

- Addy, K., A. Mandeville, A. Gold, P. August, A. McCann, and J. Peterson. 2008. Assessing the Value and Scope of National and Regional Water Websites. USDA CSREES National Water Conference, Sparks, NV.
- Addy, K. 2008. Chair of the Water Website Coordinator's Meeting. USDA CSREES National Water Conference, Sparks, NV.
- Addy, K. 2007. Chair of the Water Website Coordinator's Meeting. USDA CSREES National Water Conference, Savannah, GA.
- Addy, K. 2006. Chair of the Water Website Coordinator's Meeting. USDA CSREES National Water Conference, San Antonio, TX.
- Addy, K., C. Chaffee, A. McCann, and A. Gold. 2005. Successes and Challenges in the 406 Web Network. Water Quality Website Workshop. USDA-CSREES National Water Quality Conference, La Jolla, CA.
- Green, L., K. Addy, E. Herron, and J. Schloss. 2005. Volunteer Water Quality Monitoring: New England Extension Programs. Proceedings of the USDA-CSREES National Water Quality Conference, La Jolla, CA.
- Green, L., E. Herron, K. Stepenuck, K. Addy, A. Gold, and R. Shepard. 2005. Successes and Challenges of Volunteer Monitoring. Proceedings of the USDA-CSREES National Water Quality Conference, La Jolla, CA.
- Green, L., E. Herron, K. Stepenuck, K. Addy, A. Gold, and R. Shepard. 2005. Volunteer Monitoring Workshop. USDA-CSREES National Water Quality Conference, La Jolla, CA.
- Herron, E., L. Green, K. Stepenuck, K. Addy, A. Gold, and R. Shepard. 2005. The Role of Volunteer Monitoring in Meeting Watershed Assessment and Restoration Goals. Proceedings of the USDA-CSREES National Water Quality Conference, La Jolla, CA.
- Herron, E., L. Green, K. Stepenuck, K. Addy, A. Gold, and R. Shepard. 2005. Expanding the Guide to Growing CSREES Volunteer Monitoring Programs. Proceedings of the USDA-CSREES National Water Quality Conference, La Jolla, CA.
- Green, L., E. Herron, K. Stepenuck, K. Addy, A. Gold, and R. Shepard. 2004. Enhancing collaboration and increasing capability in extension volunteer monitoring programs. Poster. National Water Quality Monitoring Council National Conference.
- Addy, K., G. Bonyng, A. McCann, and A. Gold. 2004. Content development for CSREES Water Quality Web Network. Workshop. USDA-CSREES National Water Quality Conference: Integrating Research, Extension and Education. Clearwater, FL.
- Green, L., A. Gold, R. Shepard, E. Herron, K. Stepenuck, and K. Addy. 2004. Effectively Working with Volunteer Monitors. Poster. USDA-CSREES National Water Quality Conference: Integrating Research, Extension and Education. Clearwater, FL.