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Dr. Kyle McKay is a research civil engineer with the U.S. Army Engineer Research and Development Center (ERDC) Environmental Laboratory (EL). He received a B.S. in Environmental Engineering from Colorado State University, an M.S. in Civil Engineering from University of Illinois Urbana-Champaign, and a Ph.D. at the University of Georgia's Odum School of Ecology. His research focuses broadly on examining ecological effects of water resources infrastructure with applications related to stream and watershed restoration, fish passage improvement, environmental flow management, and flood risk management. He is stationed in the USACE New York District to facilitate cooperative research between the ERDC, the District, and other local partners.

### Relevant Publications

- **McKay S.K.**, Martin E., McIntyre P., Milt A., Moody A., and Neeson T. 2020. A comparison of approaches for prioritizing removal and repair of barriers to stream connectivity. *River Research and Applications*. <https://onlinelibrary.wiley.com/doi/full/10.1002/rra.3684>.
- **McKay S.K.**, Theiling C.H., and Dougherty M.P. 2019. Comparing outcomes from competing models assessing environmental flows in the Minnesota River Basin. *Ecological Engineering X*, 100014. doi: 10.1016/j.ecoena.2019.100014.
- Chappell J., **McKay S.K.**, Freeman M.C., and Pringle C. 2019. Long-term (37 years) impacts of low-head dams on freshwater shrimp habitat connectivity in northeastern Puerto Rico. *River Research and Applications*, 35, 1034-1043, doi: 10.1002/rra.3499.
- Herman B., **McKay S.K.**, Altman S., Richards N.S., Reif M., Piery C.D., and Swannack T.M. 2019. Unpacking the black box: Demystifying ecological models through interactive workshops and hands-on learning. *Frontiers in Environmental Science*, 7, 122. doi: 10.3389/fenvs.2019.00122.
- **McKay S.K.** 2019. Visualization as a tool for ecological analysis. *Encyclopedia of Ecology*, 2<sup>nd</sup> edition, Vol. 2, pp. 213-220. Eds. S. Jorgensen and B. Fath. doi:10.1016/B978-0-12-409548-9.10566-4.
- **McKay S.K.**, Richards N., and Swannack T. 2019. Aligning ecological model development with restoration project planning. *ERDC EMRRP-SR-89*. U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- **McKay S.K.**, Pruitt B.A., Zettle B.A., Hallberg N., Moody V., Annaert A., Ladart M., Hayden M., and McDonald J. 2018. Proctor Creek Ecological Model (PCEM): Phase 2 benefits analysis. *ERDC/EL TR-18-11*. U.S. Army Engineer Research and Development Center.
- **McKay S.K.**, Pruitt B.A., Zettle B., Hallberg N., Hughes C., Annaert A., Ladart M., and McDonald J. 2018. Proctor Creek Ecological Model (PCEM): Phase 1 Site screening. *ERDC/EL TR-18-11*. U.S. Army Engineer Research and Development Center.
- **McKay S.K.**, Cooper, Diebel M., Elkins D., Oldford G., Roghair C., and Wieferich D. 2017. Informing watershed connectivity barrier prioritization decisions: A synthesis. *River Research and Applications*, 33 (6), 847-862.
- **McKay S.K.**, Reif M., Conyngham J.N., and Kohtio D. 2017. Barrier prioritization in the tributaries of the Hudson-Raritan Estuary. *ERDC TN-EMRRP-SR-82*. U.S. Army Engineer Research and Development Center.
- Crawford B.A., Katz R.A., and **McKay S.K.** 2017. Engaging stakeholders in natural resource decision-making. *ERDC TN-EMRRP-83*. U.S. Army Engineer Research and Development Center.