Michael Schramm

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Employment

Texas Water Resources Institute, Texas A&M AgriLife Research and Extension Service

Research Specialist III 2019-current
Research Associate 2016-2019

Oak Ridge National Laboratory, Oak Ridge, TN

Research Associate 2014-2016

Center for Energy and Environmental Policy, University of Delaware

Research Assistant 2012-2013

Education

University of Delaware, Master of Energy and Environmental Policy, 2013

University of North Carolina - Wilmington, B.A. Environmetal Studies, 2011

University of North Carolina - Wilmington, B.S. Biology, 2004

Research Areas

Water quality - policy analysis, stakeholder engagement, statistical modeling, and watershed planning

Hydroinformatics - statistical modeling and visualization for decision-making

Skills

Data Analysis, Environmental Policy, GIS, Grant Writing, Policy Analysis, `Python`, `R`, Reproducible Research, Stakeholder Facilitation, Technical Writing, Water Quality Modeling and Assessment, Watershed Planning

Publications

Journal Articles

Schramm, M.P., Bevelhimer, M.S., Scherelis, C. 2017. Effects of hydrokinetic turbine sound on the behavior of four species of fish within an experimental mesocosm. *Fisheries Research* 190:1-14. doi:10.1016/j.fishres.2017.01.012

DeRolph, C.R., **Schramm, M.P.**, Bevelhimer, M.S. 2016. Predicting environmental mitigation requirements for hydropower projects through the integration of biophysical and socio-political geographies. *Science of The Total Environment* 566:888-918. doi:10.1016/j.scitotenv.2016.05.099

Schramm, M.P., Bevelhimer, M.P., DeRolph, C.R. 2016. A synthesis of environmental and recreational mitigation requirements at hydropower projects in the United States. *Environmental Science & Policy* 61:87-96. doi:10.1016/j.envsci.2016.03.019

Pracheil, B.M., DeRolph C.R., **Schramm, M.P.**, Bevelhimer, M.S. 2016. A fish-eye view of riverine hydropower systems: the current understanding of the biological response to turbine passage. *Reviews in Fish Biology and Fisheries* 26(2):153-167. doi:10.1007/s11160-015-9416-8

Cutting, R.H., Cahoon, L.B., Flood, J.F., Horton, L., **Schramm, M.P.** 2010. Spill the beans: GoodGuide, Walmart and EPA use information as efficient, market-based environmental regulation. *Tul. Envtl. LJ* 24:291.

Technical Reports

Schramm, M., Jha, A. (2020). Technical Support Document for Two Total Maximum Daily Loads for Indicator Bacteria in Sandy Creek and Wolf Creek. Prepared by the Texas Water Resources Institute for the Total Maximum Daily Load Program, Texas Commission on Environmental Quality. Austin, TX. URL: https://www.tceq.texas.gov/assets/public/waterquality/tmdl/118sandywolfcreeks/118-sandywolf-tsd-2020jan.pdf

Schramm, M., Jha, A. 2019. Technical Support Document for One Total Maximum Daily Load for Indicator Bacteria in Hillebrandt Bayou. Prepared by the Texas Water Resources Institute for the Total Maximum Daily Load Program, Texas Commission on Environmental Quality. Austin, TX. URL: https://www.tceq.texas.gov/assets/public/waterquality/tmdl/118hillebrandt/118-hillebrandtbayou-tsd-2019.pdf

Jain, S., Ruff, S., **Schramm, M.** 2018. Technical Support Document for One Total Maximum Daily Load for Indicator Bacteria in Arenosa Creek. Prepared by the Texas Water Resources Institute for the Total Maximum Daily Load Program, Texas Commission on Environmental Quality. Austin, TX. URL: https://www.tceq.texas.gov/assets/public/waterquality/tmdl/108arenosa/108-arenosa-tsd-final.pdf

Schramm, M.P., Broad, T., Arsuffi, R. 2018. *Escherichia coli* and Dissolved Oxygen Trends in the Upper Llano River Watershed, Texas (2001-2016). Technical Report, Texas Water Resources Institute TR-511. Prepared by the Texas Water Resources Institute and Llano River Field Station for the Texas State Soil and Water Conservation Board. Temple, TX. URL: http://twri.tamu.edu/publications/reports/2018/tr-511/

Schramm, M.P., Entwistle, C., Berthold, T. 2018. Lavaca River Watershed Protection Plan. Technical report, Texas Water Resources Institute TR-507. College Station, TX. URL: http://twri.tamu.edu/publications/reports/2018/tr-507/

Schramm, M.P., Entwistle, C., Berthold, T. 2017. Tres Palacios Watershed Protection Plan. Technical report, Texas Water Resources Institute TR-500. College Station, TX. URL: http://twri.tamu.edu/publications/reports/2017/tr-500/

Schramm, M.P., Entwistle, C., Berthold, T. 2017. Implementation Plan for One Total Maximum Daily Load for Indicator Bacteria in Tres Palacios Creek Tidal. Prepared by the Texas Water Resources Institute for the Total Maximum Daily Load Program, Texas Commission on Environmental Quality. Austin, TX. URL: https://www.tceq.texas.gov/assets/public/waterquality/tmdl/108trespalacios/108-TresPalaciosBacteria_TMDLIPlan_Comment_July05-2017.pdf

Schramm, M.P. 2017. Technical Support Document for Total Maximum Daily Loads for Indicator Bacteria in Aransas River Above Tidal and Poesta Creek. Prepared by the Texas Water Resources Institute for the Total Maximum Daily Load Program, Texas Commission on Environmental Quality. Austin, TX. URL: https://www.tceq.texas.gov/assets/public/waterquality/tmdl/76copano/76-aransas-poesta-tsd.pdf

McManamay, R.A., Troia, M.J., DeRolph, C.R., Bevelhimer, M.S., **Schramm, M.P.**, Larson, K.B., Tagestad, J.D., Johnson, G.E., Jager, H.I. 2015. Identifying Environmental Opportunities outside the Hydropower Project Boundary : An Updated Methodology of the Basin Scale Opportunity Assessment. doi:10.13140/RG.2.1.3000.0482

Kramer, C., Dsouza, C., **Schramm, M.P.**, Griffin, M., Teron, L. 2014. Brownfields: From Redevelopment to Revitalization. Technical Report, Center for Energy and Environmental Policy, Newark, DE. doi:10.13140/RG.2.1.5006.0565

Caldwell, J., Cruz-Ortiz, C., Dsouza, C., Johnson, T., Schorse, M., **Schramm, M.P.**, and Zhang, X. 2012. Supporting Urban Green Infrastructure. Technical report, Center for Energy and Environmental Policy, Newark. doi:10.13140/RG.2.1.1204.9687

Software

Schramm, M.P. 2018. `echor`: Access EPA ECHO Data. *R package version 0.1.3 (CRAN).* https://CRAN.R-project.org/package=echor

Schramm, M.P. 2018. `tbrf`: Time-Based Rolling Functions. *R package version 0.1.3 (CRAN)* https://CRAN.R-project.org/package=tbrf

Schramm, M.P. 2019. `dartx`: Drainage Area Ratio with Correction Factors. *R package version 0.1 (github)* https://github.com/mps9506/dartx

Schramm, M.P. 2019. `wd4tx`: R Interface for Texas Water Development Board water data. *R package version 0.0.9999 (github)* https://github.com/mps9506/wd4tx

Datasets

Bevelhimer, M.S., **Schramm, M.P.** , DeRolph, C.R. 2015. Non-Federal Hydropower Mitigation Database, Oak Ridge National Laboratory, available at: http://nhaap.ornl.gov/environmental-mitigation

Bevelhimer, M.S., **Schramm M.P.**, DeRolph, C.R. 2015. US Maps of Non-Federal Hydropower Mitigation Data, Oak Ridge National Laboratory, available at: http://nhaap.ornl.gov/environmental-mitigation

Bevelhimer, M.S., **Schramm M.P.**, DeRolph, C.R. 2015. US Maps of Non-Federal Hydropower Water Quality Requirements, Oak Ridge National Laboratory, available at: http://nhaap.ornl.gov/environmental-mitigation

Forthcoming

Schramm, M., Jha, A. (forthcoming). Technical Support Document for Four Total Maximum Daily Loads for Indicator Bacteria in Neches River Tidal . Prepared by the Texas Water Resources Institute for the Total Maximum Daily Load Program, Texas Commission on Environmental Quality. Austin, TX.

Conference Presentations

Presenting author *italicized*, if other.

Schramm, M. 2019. Automating Retrieval of Wastewater Discharge Monitoring Reports with R. National Water Quality Monitoring Conference. Denver, Colorado.

Schramm, M. 2019. Automating Retrieval of Wastewater Discharge Monitoring Reports with R. Southern Region Water Conference. College Station, TX.

DeRolph, C.R., Bevelhimer, M.S., Schramm, M.P. 2015. Development of an Environmental Mitigation Database and Statistical Models for Predicting Likely FERC License Mitigation Requirements at Hydropower Projects. American Fisheries Society. Portland, Oregon.

Schramm, M., Bevelhimer, M.S., DeRolph, C.R. 2015. Analysis of Required Environmental Mitigation at Licensed Hydropower Projects Across the US. Southern Division American Fisheries Society. Savannah, Georgia.

Grants

Texas Commision on Environmental Quality: Basins approach to address bacterial impairments in the Lower Neches Basin (FY20); PI: Lucas Gregory. Project Lead: Michael Schramm. September 2018-August 2019. Total: $135,790. Amount to Schramm: $135,790.

Texas Commision on Environmental Quality: Basins approach to address bacterial impairments in basins 15, 16, 17 (FY20); PI: Allen Berthold. Project Lead: Michael Schramm. September 2018-August 2019. Total: $51,888. Amount to Schramm: $51,888.

Texas Commision on Environmental Quality: Basins approach to address bacterial impairments in the Lower Neches Basin (FY19); PI: Lucas Gregory. Project Lead: Michael Schramm. September 2018-August 2019. Total: $139,343. Amount to Schramm: $139,343.

Texas Commision on Environmental Quality: Basins approach to address bacterial impairments in basins 15, 16, 17 (FY19); PI: Allen Berthold. Project Lead: Michael Schramm. September 2018-August 2019. Total: $97,399. Amount to Schramm: $97,399.

Texas Commision on Environmental Quality: Lavaca River Watershed Protection Plan (WPP) - Coordination, implementation and routine water quality; PI: Allen Berthold. Project Lead: Michael Schramm. September 2018 - August 2021. Total: $150,000. Amount to Schramm: $124,910.

Texas Commision on Environmental Quality: Tres Palacios on-site sewage facilities remediation; PI: Allen Berthold. Project Lead: Michael Schramm. May 2018 - December 2020. Total: $327,361. Amount to Schramm: $327,361.

Texas Commision on Environmental Quality: Tres Palacios WPP implementation (TCEQ FY17); PI: Allen Berthold. Project Lead: Michael Schramm. May 2018 - December 2020. Total: $355,800. Amount to Schramm: $235,866.

Texas General Land Office: Mission and Aransas Rivers TMDL I-Plan implementation; PI: Allen Berthold. Project Lead: Michael Schramm. October 2017-March 2019. Total: $83,979. Amount to Schramm: $83,979.

Texas General Land Office: Coordinating implementation of the Tres Palacios Watershed Protection Plan; PI: Allen Berthold. Project Lead: Michael Schramm. October 2017-March 2019. Total: $95,816. Amount to Schramm: $95,816.

Texas Commision on Environmental Quality: Basins approach to address bacterial impairments in basins 15, 16, 17 (FY18); PI: Allen Berthold. Project Lead: Michael Schramm. September 2017-August 2018. Total: $220,166. Amount to Schramm: $179,996.

Texas Commision on Environmental Quality: Basins approach to address bacterial impairments in basins 15, 16, 17 (FY17); PI: Allen Berthold. Project Lead: Michael Schramm. September 2016-August 2017. Total: $292,699. Amount to Schramm: $229,649.

Texas State Soil and Water Conservation Board: Coordinating Implementation of the Upper Llano Watershed Protection Plan. Co-PIs: Tom Arsuffi, Kevin Wagner. December 2015-November2017. Total: $347,493. Amount to Schramm: $51,235.

Media Coverage

Water Quality Projects

"Team's work to improve water quality at region's watersheds paying off": The Lufkin Daily News. Link here

"Experts gather to discuss Arenosa Creek's water quality": Victoria Advocate. Link here

"Texas Water Resources Institute protection plan for Lavaca River accepted by EPA": The Eagle. Link here

"Group finalizes watershed protection plan": Victoria Advocate. Link here

"Residents look to improve Lavaca River quality": Victoria Advocate. Link here

Awards and Honors

2013 - Center for Energy and Environmental Policy Leadership Award

2011 - NCDOT Environmental Science Scholarship

Service

Review committees:

Texas A&M AgriLife , Texas A&M AgriLife Extension, and Texas A&M Engineering Station Water Seed Grant Initiative (2019)

TWRI Mills Scholarship Program (2017 - ongoing)

USGS Graduate Research Program (2017 - ongoing)

Texas Hill Country Headwaters Conservation Initiative Regional Conservation Partnership Program (2018 - ongoing)

Journal peer review:

Water, *Sustainbility*

Professional Affiliations

American Water Resources Assocation (AWRA)

Universities Council on Water Resources (UCOWR)