

**Thomas P. O'Connor, Environmental Engineer in EPA's National Risk Management Research Laboratory**

Water Systems Division

[Mailing Address](#)

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**Areas of Expertise:**

Wet-weather flow (WWF) research, including combined sewer overflows, sanitary sewer overflows, storm runoff and stormwater discharges. Specific research includes:

- WWF control/treatment technologies and collection system design
- best management practices (BMPs), low impact development (LID) and green infrastructure (GI) including rain gardens, permeable pavement, green roofs and cisterns
- receiving water impacts and characterization of pollutants in runoff and receiving water
- cross connection identification of sanitary discharge in stormwater collection system
- stream corridor restoration
- water recycling and reuse
- graywater treatment
- retrofitting existing treatment works
- total water management

**Select Publications:**

Selvakumar, A. and T. P. O'Connor "[Organism Detection in Infiltrates from Permeable Pavement Parking Lots at the Edison Environmental Center, New Jersey](#)" Water Environment Research, Volume 90, Issue 1, January, 2018, pp. 21-29.

O'Connor, T. P. "[Detection of semi-volatile organic compounds in permeable pavement infiltrate](#)" submitted to ASCE's Journal of Sustainable Water in the Built Environment (JSWBE), Volume 3, Issue 2, May, 2017.

Brown, R., T. P. O'Connor and M. Borst, "[Divergent Vegetation Growth Patterns Relative to Bioinfiltration Unit Size and Plant Placement](#)" ASCE's JSWBE, Vol. 1, No. 3, August, 2015.

O'Connor, T. P. and M. Amin, "[Rainwater collection and management from roofs at the Edison Environmental Center](#)" ASCE's JSWBE, Vol. 1 No. 1, February, 2015.

Huertas, E., E. Colon, and T. O'Connor. [Demonstration of a Graywater Management Project at a Community Level on the Island of Puerto Rico](#). U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-15/268, 2015.

Stander, E., A. A. Rowe, M. Borst and T. P. O'Connor "[Novel Use of Time Domain Reflectometry in Infiltration-Based Low Impact Development Practices](#)" ASCE's Journal of Irrigation and Drainage Engineering (JIDE), Vol. 139, No. 8, pp. 625–634, August, 2013.

View more research publications by [Thomas O'Connor](#)

**Education:**

- M.S., Manhattan College, Riverdale, NY; Environmental Engineering, 1993.
- B.S., Manhattan College, Riverdale, NY; Physics, 1986.

**Professional Experience:**

- Professional Engineer: New York, New Jersey
- American Academy of Environmental Engineers and Scientist: Board Certified Environmental Engineer (BCEE)

**Committees and Workgroups:**

- Regulatory Oversight Team for Bayonne Municipal Utilities Authority, Hudson County, NJ, Wet Weather Flow Treatment and Disinfection Demonstration Project, (Demo Project) funded by NJ Department of Environmental Protection and EPA Region 2
- EPA Region 2, Edison Environmental Center, Environmental Management Systems (EMS) Committee member and Water Lead (2011-present)
- ORD Advisor for EPA Effluent Guidelines as pertains to construction and development (1997-present)
- ASCE Management Practice for Control of Erosion and Sediment Standards Committee (2003-present)
  - Standard published 2017: ANSI/ASCE/EWRI 66-2017 Management Practices for Control of Erosion and Sediment from Construction Activities.

**Honors and Awards:**

- EPA Region 2 Award for Outstanding Scientific Support, 2018
- EPA STAA Award Level III, 2016
- Outstanding Reviewer for ASCE Journal of Sustainable Water in the Built Environment, 2016
- Outstanding Reviewer for ASCE Journal of Hydrologic Engineering, 2015
- EPA Region 2 Regional Administrator's Team Award, 2014
- Outstanding Reviewer for ASCE Journal of Sustainable Water in the Built Environment, 2014
- EPA STAA Award Honorable Mention, 2011
- EPA Region 2 Award for Outstanding Scientific Support, 2011
- EPA-ORD Bronze Medal, Pervious Pavement Team, 2009
- EPA Bronze Medal Award for Excellence, 2005 Katrina and Rita Response, 2006
- Special Recognition Award: Exceptional/Outstanding ORD Technical Assistance to the Regions or Program Offices Award - ORD Regulatory Support Program, 2002
- EPA Bronze Medal for the development of the peer-reviewed "Risk Management Research Plan for Wet Weather Flows," 1999

[Fact Sheet – Green Infrastructure Research: Permeable Pavement at EPA'S Edison Environmental Center](#)

[Fact Sheet – Green Infrastructure Research: Rain Gardens at EPA'S Edison Environmental Center](#)