

## Welcome

10:00 a.m. - 10:15 a.m.

Jim Waltman, Executive Director, The Watershed Institute

## Keynote

10:15 a.m. - 10:55 a.m.

Kandyce Perry, Director of the Office of Environmental Justice, New Jersey Department of Environmental Protection

## Session 1

11:00 a.m. - 12:15 p.m.

IMPLEMENTERS

### Understanding Municipal Separate Storm Sewer (MS4) for Public Officials and Implementers

- Gabriel Mahon P.E., Bureau Chief of the Bureau of NJDPES Stormwater Permitting and Water Quality Management, New Jersey Department of Environmental Protection

POLICYMAKERS

COMMUNITY  
STAKEHOLDERS

### Understanding Water Quality in New Jersey

- Erin Stretz, Assistant Director of Science & Stewardship, The Watershed Institute
- Jian Smith M.S., StreamWatch Program Coordinator, The Watershed Institute

## Networking Lunch

12:30 p.m. - 1:30 p.m.

## Session 2

1:45 p.m. - 3:00 p.m.

IMPLEMENTERS

### Translating Waste Load Allocations & Load Allocations into Watershed Improvement Plans

- Fred Lubnow Ph.D., Senior Technical Director of Ecological Services, Princeton Hydro
- Jim Cosgrove P.E., Principal, One Water Consulting LLC.

POLICYMAKERS

### Ordinances

- Michael Pisauro Esq., Policy Director, The Watershed Institute

**Session 2 cont.**

1:45 p.m. - 3:00 p.m.

COMMUNITY  
STAKEHOLDERS

**Understanding Municipal Separate Storm Sewer (MS4) for Community Stakeholders**

- Lucia Middleton, Community Water Advocate, The Watershed Institute

**Session 3**

3:15 p.m. - 4:30 p.m.

IMPLEMENTERS

**Engineering and Designing Projects**

- Brian Friedlich P.E., Managing Engineer

POLICYMAKERS

**Regional Approaches to Stormwater Management**

- Katrina Angarone, Assistant Commissioner for Watershed and Land Management, New Jersey Department of Environmental Protection
- Daniel J. Van Abs Ph.D., FACIP/PP, Professor of Professional Practice for Water, Society, and Environment, Rutgers - The State University of New Jersey

COMMUNITY  
STAKEHOLDERS

**Stormwater Utilities for Community Members**

- Jennifer Coffey, Executive Director, Association of New Jersey Environmental Commissions

**Poster Session & Networking**

4:30 p.m. - 5:15 p.m.

Thank you to our sponsors for supporting this conference:

**Pond Protector**



**Creek Captains**



**Rain Garden Guardian**



**Non-Profit Exhibitors & Partners**



## SESSION 1 DESCRIPTIONS (11:00 a.m. - 12:15 p.m.)

### Understanding Municipal Separate Storm Sewer (MS4) for Public Officials and Implementers

Implementers & Policymakers

- Gabriel Mahon P.E., Bureau Chief of the Bureau of NJDPES Stormwater Permitting and Water Quality Management, New Jersey Department of Environmental Protection

Proper stormwater management is a great way to address watershed issues like flooding and water quality impairments. NJDEP substantially improved the new Municipal Separate Storm Sewer System (MS4) permit last year. The new permit went into effect January 1, 2023, and towns will now have five years to implement requirements. Gabriel Mahon will give an overview of the new permit and discuss the new requirements.

### Understanding Water Quality in New Jersey

Community Stakeholders

- Erin Stretz, Assistant Director of Science & Stewardship, The Watershed Institute
- Jian Smith M.S., StreamWatch Program Coordinator, The Watershed Institute

The Clean Water Act requires that our streams, rivers, and lakes should be swimmable, fishable, and drinkable – and it is our collective responsibility to find out if they meet these goals. Watershed Institute scientists Erin Stretz and Jian Smith will discuss how we measure water quality, how we assess the results, and how water quality determines how a waterbody is managed. We'll review current water quality conditions across New Jersey and how they've changed over the past decade to see how well we are meeting the goals of the Clean Water Act.

## SESSION 2 DESCRIPTIONS (1:45 p.m. - 3:00 p.m.)

### Translating Waste Load Allocations & Load Allocations into Watershed Improvement Plans

Implementers

- Fred Lubnow Ph.D., Senior Technical Director of Ecological Services, Princeton Hydro
- Jim Cosgrove P.E., Principal, One Water Consulting LLC.

Total Maximum Daily Loads (TMDLs) are the pollution budgets for waterways which are created to reduce the amount of pollution entering a waterway with the goal of improving water quality. TMDLs set Waste Load Allocations (WLAs) for point source discharges of pollutants and Load Allocations (LAs) for non-point sources of pollutants. MS4 permittees must complete a Watershed Improvement Plan (WIP) that incorporate the reductions required by TMDLs. How can towns best utilize the WLA/LAs, which may cover multiple municipalities, in the development of a WIP? This session will provide the basic understanding of TMDLs and how they are connected to the new WIP requirements.

### Ordinances

Policymakers

- Michael Pisauro Esq., Policy Director, The Watershed Institute

The MS4 permit requires municipalities to adopt several ordinances to address water pollution. The new permit added two additional ordinances to the list. Tier B towns, who are now Tier A, will also have to look at and adopt several ordinances that were not previously required. Mike Pisauro will review the ordinance requirements for municipalities. Come learn what dog poop, litter, trees and salt all have in common. Learn how ordinances can help reduce flooding.

## SESSION 2 DESCRIPTIONS CONT. (1:45 p.m. - 3:00 p.m.)

### Understanding Municipal Separate Storm Sewer (MS4) for Community Stakeholders

Community Stakeholders

- Lucia Middleton, Community Water Advocate, The Watershed Institute

With the recent 2023 MS4 permit update, it is more important than ever that NJ residents understand what the MS4 is and how it affects them. A well implemented MS4 permit could mean the difference between minor flooding and the destruction of homes and property. In this session, Lucia Middleton will be discussing the MS4 permit, its history, and its relevance in New Jersey's fight against climate change. Much of the session will be spent on the Watershed Improvement Plan (WIP), one of the new requirements of the 2023 permit, and how community members can take part in its development and implementation. Community participation will better equip municipalities to meet deadlines and implement the infrastructure that the New Jersey public deserves.

## SESSION 3 DESCRIPTIONS (3:15 p.m. - 4:30 p.m.)

### Engineering and Designing Projects

Implementers

- Brian Friedlich P.E., Managing Engineer

The MS4 permit requires municipalities to develop projects to improve water quality. Brian Friedlich, an experienced water resources engineer, will discuss engineering and design requirements in the MS4 permit as well as make recommendations of how to best incorporate green infrastructure and watershed-level design.

### Regional Approaches to Stormwater Management

Policymakers

- Katrina Angarone, Assistant Commissioner for Watershed and Land Management, New Jersey Department of Environmental Protection
- Daniel J. Van Abs Ph.D., FACIP/PP, Professor of Professional Practice for Water, Society, and Environment, Rutgers - The State University of New Jersey

New Jersey's waterways flow through many municipalities. Flooding and water pollution do not stop at municipal boundaries, but head downstream to impact all of us. In developing Watershed Improvement Plans, permittees may want to consider working with their neighbors in studying the problem and devising solutions. The permit and NJ's regulatory requirements allow for regional approaches. The speakers will address the ability to work regionally.

### Stormwater Utilities for Community Members

Community Stakeholders

- Jennifer Coffey, Executive Director, Association of New Jersey Environmental Commissions

With the passage of the Clean Stormwater and Flood Reduction Act in 2019, New Jersey joined 40 other states in empowering communities to create stormwater utilities. Our speaker will give an overview of the purpose of stormwater utilities, how they work, and resources available to assist communities with determining if a utility is right for them. Learn how stormwater utilities can be used to reduce nuisance flooding, reduce combined sewer overflows, and enhance quality of life.