

JERSEY WATERWORKS CONFERENCE 2023

DECEMBER 13 | THE COLLEGE OF NEW JERSEY, EWING



Haw River Drawing by Lauren Rosenthal McManus

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JERSEY WATER WORKS

Smart infrastructure. Strong communities.

JERSEY WATER WORKS was formed as a collaborative effort among stakeholders from all perspectives—including consumers, community advocates, utility leaders, policymakers, environmentalists, and academics—to identify effective solutions to improve New Jersey’s water infrastructure and drive systemic change.

Together, we envision and work toward achieving clean, safe, and equitable water outcomes for all New Jerseyans.

The remarkable success of Jersey Water Works can be largely attributed to the invaluable contributions of its esteemed members. Through their efforts, the collaborative has been able to cultivate a culture of collaboration and knowledge-sharing, which has been instrumental in fostering an environment of growth and progress as we work together to transform New Jersey’s water infrastructure.

The art seen on the cover of this book and this page is by Lauren Rosenthal McManus and represents this year’s conference theme.

Lauren’s watershed maps reframe the boundaries that define community. Combining research-driven activism with material essentialism, her river-centric maps emphasize the innate beauty and universal importance of freshwater systems.



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WELCOME

Welcome to the Ninth Annual Jersey Water Works Conference!

We are called to continue fostering intergenerational responsibility regarding our water decisions today that will impact generations tomorrow. This is why Jersey Water Works (JWW) members are collectively charged with impressing upon the general public how their engagement affects decisions on our water resources and infrastructure.

Our collective impact work requires us to work on system level changes, which takes time and consistent effort. After 10 years of advocacy, new CSO permit drafts that reflect Long Term Control plans are finally being rolled out. Additionally this year, the Senate enacted recommendations from the JWW 2021 childcare facilities report and 2019 lead in drinking water report in their legislation. After years of advocacy by many member organizations, in 2023 we also saw changes to the NJ Stormwater Management Rule that requires the use of climate-informed data for all major developments to protect our water, people, and economy. And most recently, we saw EPA's new lead and copper rule reference the work happening in New Jersey as well as a resource created by our members.

Engaging with the different stakeholders is essential in ensuring that the goals of the collaborative are considered when the decision-makers are finalizing a rule/regulation or practice. JWW members gathered in 2023 to exchange ideas and take advantage of the public comment opportunities government agencies offer. JWW's members submitted comments for the following:

- **Draft Combined Sewer Overflow (CSO) Permits for Guttenberg/North Bergen Municipal Utility Authority, City of Elizabeth and Joint Meeting of Essex and Union Counties, North Hudson Sewerage Authority, Bergen County Utilities Authority, Borough of Fort Lee, City of Hackensack, Village of Ridgefield Park**
- **NJAC 5:30 Proposed Chapter Readoption**
- **Climate Resilience and Green Infrastructure Committees on NJDEP's Strategic Climate Action Plan**
- **SFY24 Drinking Water and Clean Water Intended Use Plans**
- **Climate Resilience and Green Infrastructure Committees on the New Jersey Protecting Against Climate Threats (NJ PACT) - Inland Flood Protection Rule**
- **Draft CSO Public Engagement Guidance Document**

JWW members continued to emphasize the benefits of green infrastructure, disseminate information about the Low Income Household Water Assistance Program (LIHWAP), provide resources about lead service line replacement, expand the affordability conversation, and advance water workforce initiatives via a pilot program at Hudson County Community College. Read more about the committees' accomplishments on page 19.

Let's face it, a lot of people working on water infrastructure solutions didn't start the problem that exists today. We're cleaning up prior generations' decisions, and that's not just contaminants, but also under-investment.

**Thank you for driving these efforts and for joining us today
at the Jersey Water Works Annual Conference!**

ANDY KRICUN

Moonshot Missions — Co-Chair, Jersey Water Works

NICOLE MILLER

MnM Consulting — Co-Chair, Jersey Water Works



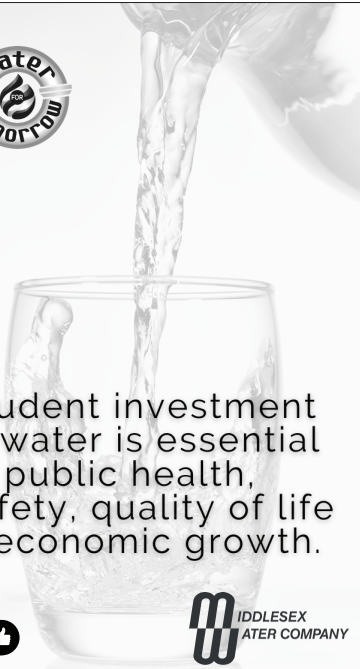
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ABOUT JERSEY WATER WORKS

Jersey Water Works (JWW) is a diverse cross-sector collaborative of individuals and organizations focused on transforming New Jersey's inadequate water infrastructure by investing in sustainable, cost-effective solutions that provide communities with clean water and waterways; healthier, safer neighborhoods; local jobs; flood and climate resilience; and economic growth.

Jersey Water Works is led by a steering committee. Its 600+ members advance the organization's shared goals through their own work, collaboration with each other, and through participation on various JWW committees. New Jersey Future supports Jersey Water Works as its "backbone" organization.

The Geraldine R. Dodge Foundation has provided funding to convene partners since JWW's inception. The support from the foundation helps keep the collaborative vital, agile, and responsive so that it can continue to convene partners to align our work and change a massive system like water infrastructure. Collaborative members advance solutions in lead service lines, water workforce, combined sewer overflows, and stormwater/green infrastructure within committees and with the support of governmental and private philanthropic organizations, including but not limited to The Fund for New Jersey, The Kresge Foundation, Bank of America, New Jersey Department of Environmental Protection, the Robert Wood Johnson Foundation, Spring Point Partners, and William Penn Foundation.

Jersey Water Works seeks equitable, just outcomes as it works collectively to transform water systems for everyone. Through the work of committees and individuals, members and their organizations convene to advance the following goals:



EFFECTIVE AND FINANCIALLY SUSTAINABLE SYSTEMS

Communities maintain and improve drinking water, wastewater, and stormwater infrastructure systems to deliver quality water services that meet community needs. Operating budgets and capital investment are adequate and affordable, resulting in systems that operate efficiently and in a state of good repair.



EMPOWERED STAKEHOLDERS

Well-informed decision makers, community partners, residents, and ratepayers participate actively and influence the planning and management of their water infrastructure. They fully understand the importance of taking care of water infrastructure, including the costs of inaction.



SUCCESSFUL AND BENEFICIAL GREEN INFRASTRUCTURE

Communities employ green infrastructure in a way that maximizes community benefits, including reduced flooding and improved water quality, local economies, community health, and long-term resilience.



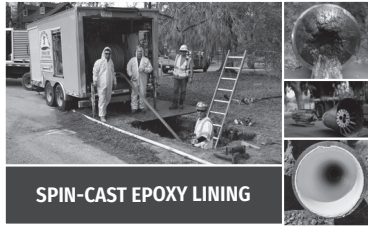
SMART COMBINED SEWER OVERFLOW CONTROL PLANS

Municipalities and utilities adopt innovative CSO Long Term Control Plans (LTCs) with cost-effective solutions that meet or exceed permit requirements and provide multiple community benefits.

To learn more about Jersey Water Works and its full set of goals, or to join the collaborative, visit jerseywaterworks.org.

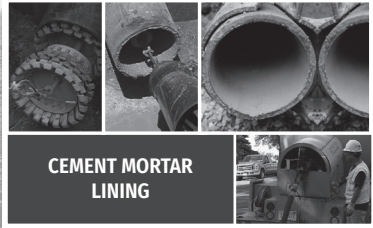


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AGENDA

WEDNESDAY, DECEMBER 13, 2023

TIME

EVENT

LOCATION

8:00 a.m. – 12:00 p.m.

Doors Open, Registration, Exhibitor Tables, & Networking

BSC 100

9:00 a.m. – 12:00 p.m.

UTILITY TRACK AND WORKSHOP BLOCKS

BSC 225 West

Drinking Water Utility Track: Beyond the Initial Inventories;

Identifying Unknowns, Complying with LCRI, LCRR, and NJ State Laws

Federal Lead and Copper Rule Revision/Improvement (LCRR/I) Requirements

- Kristin Epstein, *Project Manager, Northeastern U.S. LCR Compliance Coordinator, CDM Smith*

Latest Service Line Inventory Methods and Their Costs

- Sandra Kutzing, *Vice President/Lead and Copper Strategy Leader, CDM Smith*

Lead Service Line Replacement Compliance and

New Jersey Technical Assistance Program (NJTAP)

- Alaina Ungarini, *Planning and Program Coordination Section, Bureau of Water System Engineering, New Jersey Department of Environmental Protection*

Panel: Identifying Unknowns and Conducting Customer-Side Replacements

- Michael Furrey, *President, Agra Environmental and Laboratory Services (moderator)*
- Michael Cohrs, *Business Manager, Ridgewood Water*
- Jan Chwiedosiuk, *Director of Distribution, Middlesex Water Company*
- Kouao-Eric Ekoue, *Superintendent, New Brunswick Water Utility*
- Stephen Marks, *Town Administrator, Town of Kearny*
- Don Shields, *Vice President and Director of Engineering, New Jersey American Water*

9:00 a.m. – 10:30 a.m.

WORKSHOP BLOCK 1

Exploring Shared Services: Why, How, Examples

BSC 222

- Lee Clark, *Program Manager, Funding Navigator, New Jersey Future*
- Laurie Ann Doyle, *Grant Administrator for the Local Efficiency Achievement Program (LEAP), New Jersey Department of Community Affairs*
- Lauren Rosenthal McManus, *Artist*
- Rick Richardella, *Bureau Chief, Division of Local Government Services, New Jersey Department of Community Affairs*

Green & Gray: Solutions to Manage Stormwater and CSOs

BSC 224

- Christine Ash, *Acting Deputy Director, Water Division, US EPA Region 2 (moderator)*
- Jennifer Gonzales, *AICP, PP, CFM, Chief Sustainability Officer, City of Hoboken*
- Joseph Mannick, *Section Chief, Bureau of Surface Water & Pretreatment Permitting, New Jersey Department of Environmental Protection*
- Gabriella Pulsinelli, *Environmental Specialist, New Jersey Department of Environmental Protection*
- Elliott Ruga, *Policy & Communications Director, New Jersey Highlands Coalition*

AGENDA

WEDNESDAY, DECEMBER 13, 2023

TIME

EVENT

LOCATION

9:00 a.m. – 10:30 a.m.

WORKSHOP BLOCK 1

Pathways to Funding Climate Resilient Projects

BSC 100

- Yasmine Pessar, *Principal Environmental Planner, City of Hoboken (moderator)*
- Nick Angarone, *PP/AICP, Chief Resilience Officer and Manager of the Office of Climate Resilience, New Jersey Department of Environmental Protection*
- Charles Jenkins, *Assistant Director of the Municipal Finance & Construction Element, New Jersey Department of Environmental Protection*
- Samantha Thomas, *Environmental Program Planner, New Jersey Department of Environmental Protection*
- David Zimmer, *Executive Director, New Jersey Infrastructure Bank*

10:45 a.m. – 12:00 p.m.

WORKSHOP BLOCK 2

Communicating the Value of Water

BSC 222

- Michael Atkins, *Communications Director, New Jersey Future*
- Hailey Benson, *Co-Founder, North Bergen Earth Talks*
- Denise Venuti Free, *Senior Director of Communications & External Affairs, New Jersey American Water*

Partnering to Advance Water Workforce Initiatives in New Jersey

BSC 224

- Michael Assante, *Project Manager, Bayonne, Municipal Water Contract Operations, Veolia North America*
- Nicole Brown, *Client Development Manager, Suburban Consulting Engineers, Inc.; SISTEM (networks of women of color in water), Emerging Leaders Project*
- Jennifer Harris, *Project Manager/Engineer, Environmental Resolutions, Inc.*
- John Libitz, *Contract Compliance and Client Director, Veolia North America*
- Catherina Mirasol, *Director, Continuing Education & Workforce Development, Hudson County Community College*

Let's Talk About PFAS and Other Contaminants

BSC 100

- Christine Ballard, *Client Service Leader, CDM Smith (moderator)*
- Jim Cosgrove, *Principal, One Water Consulting LLC*
- Patricia Ingelido, *Director, Division of Water Supply and Geoscience, New Jersey Department of Environmental Protection*
- Susan Rosenwinkel, *Assistant Director, Division of Water Quality, New Jersey Department of Environmental Protection*
- Nicole Wiley, *Engineering Practice Lead, American Water*

12:00 p.m. – 12:50 p.m.

LUNCH

AGENDA

WEDNESDAY, DECEMBER 13, 2023

TIME

EVENT

LOCATION

1:00 p.m. – 3:00 p.m.

GENERAL SESSION: KEYNOTE & ROUNDTABLE DISCUSSION

BSC 100

Welcome

- Nicole Miller, *MnM Consulting, JWW Steering Committee co-chair*

The College of New Jersey Welcome

- Michael Bernstein PhD, *President, The College of New Jersey*

Title Sponsor

- Don Shields, *Vice President and Director of Engineering, New Jersey American Water*

KEYNOTE: Water 2050: Charting a Course for a Safe and Sustainable Water Future

- Joe Jacangelo, PhD, REHS, *Vice President, Director of Research, Stantec, and Immediate Past President of AWWA*

Return on Investment: Whose Investment and Whose Return?

- Daniel Van Abs, PhD, FAICP/PP, *School of Environmental and Biological Sciences, Rutgers University Rutgers University*

One Water, Many Perspectives: A Roundtable Discussion

- Rosana Pedra Nobre, *Water Quality Manager, Hudson River Foundation and New York-New Jersey Harbor & Estuary Program (moderator)*
- Helmin Caba, *Mayor, City of Perth Amboy*
- Senator Linda Greenstein (LD-14) *New Jersey Senate*
- Tenisha Malcolm, *Director of the Urban Mayors Policy Center at John S. Watson Institute for Urban Policy and Research at Kean University*

3:00 p.m.

ADJOURN

Drinking Water Utility Track

Accredited by the New Jersey Water Association:

- 2.5 TCH for NJ-Licensed Water Operators. TCH#: 04-122301-10
- 2.5 Credits for NJ-Certified Public Works Managers (1.0 Technical, 1.5 Technical)
- 2.5 PDH for NJ Professional Engineers

Four sessions have been approved for Certification Maintenance (CM) credits from the American Institute of Certified Planners (AICP):

- *Exploring Shared Services: Why, How, Examples (1.5 CM credits)*
- *Green & Gray: Solutions to Manage Stormwater and CSOs (1.5 CM credits)*
- *Pathways to Funding Climate Resilient Projects (1.5 CM credits)*
- *Keynote: The Value of Water, Now and in the Future (0.5 CM credits)*

5 CECs for CFMs by the Association of State Floodplain Managers have been approved for the Ninth Annual Jersey Water Works Conference. All sessions qualify for CEC credits.

SESSION DESCRIPTIONS

Wednesday, December 13, 2023

DRINKING WATER UTILITY TRACK

**Beyond the Initial Inventories; Identifying Unknowns,
Complying with LCRI, LCRR, and NJ State Laws**

9:00 a.m. – 12:00 p.m. // BSC 225 West

9:00 a.m. – 9:45 a.m.

Federal Lead and Copper Rule Revision/Improvement (LCRR/I) Requirements

Kristin Epstein, Project Manager, Northeastern U.S. LCR Compliance Coordinator, CDM Smith

Learn about the upcoming revisions to the Federal EPA's Lead and Copper Rule and draft Lead and Copper Rule Improvements. These changes will affect water systems in NJ starting in October 2024. The presentation will demonstrate the overlapping NJ and Federal requirements and new Federal requirements. It will also provide some best practices and tips for water systems to meet the new requirements.

9:45 a.m. – 10:30 a.m.

Latest Service Line Inventory Methods and Their Costs

Sandy Kutzing, Vice President/Lead and Copper Strategy Leader, CDM Smith

Get up to date with the current and emerging methods for evaluating unknown service lines to develop a water system's inventory further. The presentation will cover the accuracy, cost, advantages, and disadvantages of each method. Additionally, case studies using the EPA's stepwise method to evaluate service lines, starting with the lowest cost methods to reduce the total pool of unknowns, will be presented. Lastly, costs for lead service line replacements will be presented for systems that identify lead service lines in their system.

10:30 a.m. – 10:45 a.m.

Lead Service Line Replacement Compliance and New Jersey Technical Assistance Program (NJTAP)

*Alaina Ungarini, Planning and Program Coordination Section, Bureau of Water System Engineering,
New Jersey Department of Environmental Protection*

Get an overview of the New Jersey statute (P.L. 2021, c.183) and compliance requirements for New Jersey water systems. The presentation will also focus on the New Jersey Technical Assistance Program (NJ TAP) and the progress made through the program.

SESSION DESCRIPTIONS

Wednesday, December 13, 2023

10:45 a.m. – 11:45 a.m.

Panel: Identifying Unknowns and Conducting Customer-Side Replacements

MODERATOR Michael Furrey, *President, Agra Environmental and Laboratory Services*

PANELISTS Michael Cohrs, *Business Manager, Ridgewood Water*

Jan Chwiedosiuk, *Director of Distribution, Middlesex Water Company*

Kouao-Eric Ekoue, *Superintendent, New Brunswick Water Utility*

Stephen Marks, *Town Administrator, Town of Kearny*

Don Shields, *Vice President and Director of Engineering, New Jersey American Water*

Learn from water sector peers who will share their field experience, including but not limited to methods used for unknowns, unique approaches to customer-side replacement, and system approaches to cost efficiency. Peers will also share their progress as part of the New Jersey Technical Assistance Program (NJ TAP). Panelists will be available for a 30-minute Q&A with course participants.

ROUNDTABLE Q & A WITH ALL PRESENTERS

11:45 a.m. – 12:00 p.m

WORKSHOP BLOCK 1

9:00 a.m. – 10:30 a.m.

Exploring Shared Services: Why, How, Examples

BSC 222

For communities struggling to manage their water systems, shared services programs can help reduce costs and improve service delivery. This session will offer an overview of the Local Efficiency Achievement Program (LEAP) grants offered by the New Jersey Department of Community Affairs. The grant provides funding for local governments to advance shared services efforts. Join this conversation and learn more about how utilities can pull their resources together, share technical expertise, and leverage their shared capacities to increase efficiencies and lower costs. The session will begin with a short presentation by a local artist, who uses her art to engage others in thinking about water and environmental issues.

PRESENTERS Lee Clark, *Program Manager, Funding Navigator, New Jersey Future*

Rick Richardella, *Bureau Chief, Division of Local Government Services,
New Jersey Department of Community Affairs*

Laurie Ann Doyle, *Grant Administrator for the Local Efficiency Achievement
Program (LEAP), New Jersey Department of Community Affairs*

Lauren Rosenthal McManus, *Artist*

SESSION DESCRIPTIONS

Wednesday, December 13, 2023

WORKSHOP BLOCK 1 *(continued)*

Green & Gray: Solutions to Manage Stormwater and CSOs

BSC 224

Does your community experience flooding and impaired waterways? The updated Tier A MS4 and CSO Permits in NJ are regulatory drivers to manage stormwater and implement green infrastructure. Join expert panelists to learn more about policies, innovative projects, and approaches to managing stormwater from municipal, state, and regional perspectives.

MODERATOR **Christine Ash**, *Acting Deputy Director, Water Division, US EPA Region 2*

PRESENTERS **Jennifer Gonzales, AICP, PP, CFM**, *Chief Sustainability Officer, City of Hoboken*
Joseph Mannick, *Section Chief, Bureau of Surface Water & Pretreatment Permitting, New Jersey Department of Environmental Protection*

Gabryella Pulsinelli, *Environmental Specialist, New Jersey Department of Environmental Protection*

Elliott Ruga, *Policy & Communications Director, New Jersey Highlands Coalition*

Pathways to Funding Climate Resilient Projects

BSC 100

As the impacts of climate change get worse, New Jersey's communities need to prepare accordingly. The New Jersey Department of Environmental Protection (NJDEP) is implementing new laws and regulations to ensure municipalities are addressing the impacts of climate change. However, local governments often lack the capacity and resources to plan and implement climate resilience initiatives and projects effectively. How are the NJDEP's new laws and regulations going to impact local governments? How can communities better prepare for the effects of climate change? What types of funding sources are available for climate resilience planning and projects? How can these funding sources be best accessed? Learn from leaders in the field working on solutions to these challenges.

MODERATOR **Yasmine Pessar**, *Principal Environmental Planner, City of Hoboken*

PRESENTERS **Nick Angarone, PP/AICP**, *Chief Resilience Officer and Manager of the Office of Climate Resilience, New Jersey Department of Environmental Protection*

Charles Jenkins, *Assistant Director of the Municipal Finance & Construction Element, New Jersey Department of Environmental Protection*

Samantha Thomas, *Environmental Program Planner, New Jersey Department of Environmental Protection*

David Zimmer, *Executive Director, New Jersey Infrastructure Bank*

SESSION DESCRIPTIONS

Wednesday, December 13, 2023

WORKSHOP BLOCK 2

10:45 a.m. – 12:00 p.m.

Communicating the Value of Water

BSC 222

Not only do we share “one water,” we share the same water as the generations before us. Our current generation has a once-in-a-lifetime opportunity to improve our water systems, due to unprecedented federal funding, to positively impact the quality, management, and accessibility of water for generations to come. This session will explore the commonalities and differences in communicating issues facing watersheds, utilities, and municipalities as they manage water quality, water management, and flooding while increasing public engagement and awareness. This breakout session will function as an open dialogue between panelists and session participants to better share experiences and resources across platforms and audiences as we work together to share the responsibility of managing our “one water” in harmony.

PRESENTERS **Michael Atkins**, *Communications Director, New Jersey Future*
Hailey Benson, *Co-Founder, North Bergen Earth Talks*
Denise Venuti Free, *Senior Director of Communications & External Affairs, New Jersey American Water*

Partnering to Advance Water Workforce Initiatives in New Jersey

BSC 224

To develop and improve the water workforce, it's crucial to involve a wide range of organizations. This includes utility executives, educational institutions, career centers, and community-based organizations. Partnering with these groups is vital for gaining valuable information, knowledge, and insights. By seeking their input on existing resources, requirements, challenges, and opportunities, we can ensure that initiatives are well-informed. The session will feature information about the Water Workforce Utility Pilot Project at Hudson County Community College and the Emerging Water Leaders Leadership Circle. Jersey Water Works members are collaborating with partners to advance water workforce development. Learn more!

MODERATOR **Nicole Brown**, *Client Development Manager, Suburban Consulting Engineers, Inc.; SISTEM (networks of women of color in water), Emerging Leaders Project*

PRESENTERS **Michael Assante**, *Project Manager, Bayonne, Municipal Water Contract Operations, Veolia North America*
Jennifer Harris, PE, CME, *Project Manager/Engineer, Environmental Resolutions, Inc.*
John Libitz, *Contract Compliance and Client Director, Veolia North America*
Catherina Mirasol, *Director, Continuing Education & Workforce Development, Hudson County Community College*

SESSION DESCRIPTIONS

Wednesday, December 13, 2023

WORKSHOP BLOCK 2 *(continued)*

Let's Talk About PFAS and Other Contaminants

BSC 100

Per- and polyfluoroalkyl substances (PFAS) are a large class of human-made forever chemicals that have significant health impacts and contaminating water sources. New Jersey's water and sewer systems face multiple converging needs - legacy issues such as aging infrastructure, lead, and combined sewer overflows along with new threats such as PFAS and climate change. Although we may have more questions than solutions when it comes to PFAS, it's essential to start somewhere and find opportunities to collaborate where relevant. We invite you to learn more about PFAS, hear from state and utility sector representatives on the work already happening, and be part of a collaborative problem solving vision. This roundtable discussion provides an opportunity to get some high level perspectives on the issue of PFAS.

MODERATOR **Christine Ballard**, *Client Service Leader, CDM Smith*

PRESENTERS **Jim Cosgrove**, *Principal, One Water Consulting LLC*

Patricia Ingelido, *Director, Division of Water Supply and Geoscience,
New Jersey Department of Environmental Protection*

Susan Rosenwinkel, *Assistant Director, Division of Water Quality,
New Jersey Department of Environmental Protection*

Nicole Wiley, *Engineering Practice Lead, American Water*

GENERAL SESSION

Keynote and Roundtable Discussion

1:00 p.m. – 3:00 p.m.

BSC 100

Water 2050: Charting a Course for a Safe and Sustainable Water Future

In the next 30 years, the most salient environmental and social issues will involve water: who has it, who doesn't, is it safe, is it affordable, how it is managed and by whom. It is crucial to envision the future and analyze the forces that shape it to help the water community plan and be proactive. The American Water Works Association's Water 2050 initiative aims to create a long-term vision for the future of water. This collaborative initiative is charting a course for a secure and sustainable water sector by engaging in meaningful conversations, enlisting strategic partners, fostering intergenerational responsibility, and capturing collective knowledge, all leading to a strategy and implementation plan. Dr. Joe Jacangelo, Vice President, Director of Research at Stantec, Immediate Past President of AWWA (2023-2024), and faculty member at Johns Hopkins Bloomberg School of Public Health will share more about the AWWA's Water 2050 initiative and his thoughts about the future of water.

KEYNOTE SPEAKER **Joe Jacangelo, PhD, REHS**, *Vice President, Director of Research,
Stantec, and Immediate Past President of AWWA (2023-2024)*

SESSION DESCRIPTIONS

Wednesday, December 13, 2023

Return on Investment: Whose Investment and Whose Return?

Using capital project funds in a cost-effective manner with a good return on investment (ROI) is important, but are we counting the appropriate costs and benefits? Recent research shows the usefulness of accounting for more costs than utility cash outlays and more benefits than meeting permit requirements. Can a broader evaluation of ROI provide good arguments for increasing public support for and bringing non-traditional funding into water infrastructure projects?

SPEAKER **Daniel Van Abs, PhD, FAICP/PP**, *Professor of Professional Practice for Water, Society and Environment, Rutgers University*

One Water, Many Perspectives: A Roundtable Discussion

It's impossible to overstate the importance of water to New Jersey's health, economy, and quality of life. The water we drink, swim in, boat on, and use in manufacturing is essential to our state's very being. Jersey Water Works (JWW) members believe that smart infrastructure builds strong communities and share one overarching vision: to transform New Jersey's water infrastructure. We know that only through collaboration can this vision be achieved. Local and elected officials have a crucial role to play in managing water infrastructure and stormwater, and so do educators, researchers, utility staff, and community organizers. How can we help the public better understand the complexity of the value of water? How can we shift how we make these decisions? How can we get behind trying new approaches?

MODERATOR **Rosana Pedra Nobre**, *Water Quality Manager, Hudson River Foundation and New York-New Jersey Harbor & Estuary Program*

SPEAKERS **Helmin Caba**, *Mayor, Perth Amboy*

Linda Greenstein, *New Jersey Senator (LD-14)*

Joe Jacangelo, PhD, REHS, *Vice President, Director of Research, Stantec, and Immediate Past President of AWWA*

Tenisha Malcolm, *Director of the Urban Mayors Policy Center, John S. Watson Institute for Urban Policy and Research at Kean University*



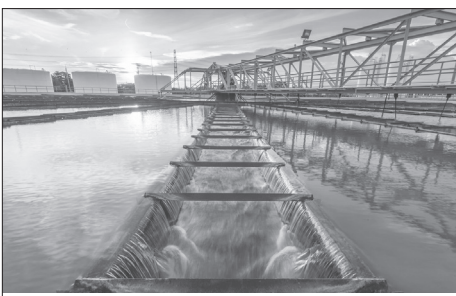
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Knowledge to Transform Water Infrastructure

Jersey WaterCheck is an online dashboard that combines data from public sources and information from utilities.

JWW Shared Goals



Learn about JWW shared goals

The dashboard includes every drinking water and wastewater system in the state.

Explore data about the state's drinking water, wastewater, and stormwater.

Benchmark Hub



Find data

Jersey WaterCheck is for You

- Utilities can demonstrate progress, showcase public health commitment to their communities, and facilitate learning best practices with peers.
- Consumers will better understand local water and sewer systems, the role they play in community public health, and ways to become a water advocate.
- All of us can better discuss our state's significant water infrastructure needs.
- Jersey WaterCheck's Lead Resources page is the one-stop shop for municipal officials, utility leaders, and water consumers looking to learn more about lead service line resources.

System Finder



Find water and wastewater systems

Lead Resources



Find lead service line resources

Collaboration

Jersey WaterCheck was created by a collaborative process that included input from a data advisory committee, a utility coalition, utility associations, consumer focus group, and Jersey Water Works committee members.

Award-Winning

Winner of the 2021 Water Data Prize Equity Awards.



Visit NJWaterCheck.com

Jersey WaterCheck is part of Jersey Water Works—a collaborative that works to strengthen our state's water infrastructure.

New Jersey Water Risk and Equity Map

Visit NJWaterEquity.Rutgers.edu

This tool shows the overlay of water risks and demographic factors in New Jersey, and can highlight inequities in water risk exposure.

Map Uses

- Identify risks and prioritize solutions
- Advance local advocacy work
- Engage community members in community planning
- Inform researchers and educators

Water Risk and Equity Data

- "Water Risk Data" shows areas at risk of flooding, lead service lines, impaired water quality, and other issues.
- "Demographic Information" shows the location of overburdened communities as defined by the New Jersey Department of Environmental Protection.
- "Areas of Interest" show additional information, such as watershed boundaries.

Environmental Justice Hotspots



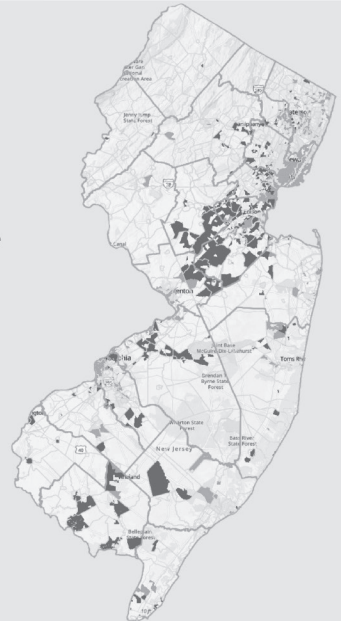
Flooding Environmental Justice Hotspots



Water Infrastructure Environmental Justice Hotspots



Both Flooding and Water Infrastructure Environmental Justice Hotspots



Learn more at NJWaterEquity.Rutgers.edu



The Water Risk and Equity Map was selected for the 2021 Water Data Prize in the Equity Category. The map is a collaboration between Rutgers, Jersey Water Works, and New Jersey Future.

2023 ACCOMPLISHMENTS

Within committees, Jersey Water Works members worked across sectors to adopt a 2023 Work Plan that would advance the collaborative's shared goals and improve social equity.

ASSET MANAGEMENT AND FINANCE COMMITTEE

- **Expanded information about available funding** via a technical assistance (TA) webinar, blog, social media, and newsletters.
- **Encouraged municipalities to consider creating stormwater utilities** by hosting five town-hall style *Stormwater Utility Information Forums*, attended by over 70 participants.
- **Raised awareness about water affordability** and assistance programs via presentation at the NJ Water Environment Association (NJWEA) conference and by creating social media content, publishing a blog, and sharing information via newsletter on the Low Income Household Water Assistance Program (LIHWAP).
- **Provided feedback via comments** on Proposed Clean Water SRF and Drinking Water SRF Intended Use Plans for SFY24.

CLIMATE RESILIENCE COMMITTEE

- **Submitted comments** on NJDEP Strategic Climate Action Plan with the GI committee.
- **Advanced on developing a roadmap** for drinking water and wastewater utilities that have yet to or are just beginning to build resilience against the impacts of climate change.
- **Promoted climate resilience funding availability** via emails, meetings, and newsletters.

COMBINED SEWER OVERFLOW (CSO) COMMITTEE

- **Reviewed and submitted comments** on the draft Combined Sewer Overflow Permits for Guttenberg/North Bergen Municipal Utility Authority, North Hudson Sewerage Authority, City of Elizabeth and Joint Meeting of Essex & Union Counties, Bergen County Utilities Authority, Borough of Fort Lee, City of Hackensack, and Village of Ridgely Park to ensure JWW recommendations for smart CSO permits are reflected in new permits.
- **Educated and engaged community members in the public comment process** for the draft CSO permits via two webinars, social media, and newsletters in collaboration with Sewage Free Streets and Rivers.

2023 ACCOMPLISHMENTS

GREEN INFRASTRUCTURE COMMITTEE

- **Developed and published** the Rain Garden Facilitator’s Guide and the Green Infrastructure & Climate Change Fact Sheets resources.
- **Raised awareness about green infrastructure statewide** via GI champions and exhibited at various events, including the JWW and LFNJ Membership Meeting, Sustainable Jersey Summit, and Rutgers EcoFair.
- **Hosted peer learning exchange sessions** during committee meetings, including an overview of the MS4 Permit, the New York-New Jersey Harbor & Estuary Program’s 2023 commitment updates, and an overview of the Water Supply Plan.
- **Collaborated** with the Rutgers Cooperative Extension Water Resources Program to promote and support the largest Green Infrastructure Champion program thus far, which graduated over 200 individuals in May.
- **Provided recommendations via comments** to NJDEP on the Inland Flood Protection Rule.

DATA ADVISORY COMMITTEE

(JERSEY WATERWORKS DATA DASHBOARD)

- **Promoted data transparency** via the Jersey WaterCheck website and highlighted information via the “New Jersey’s Capital Investment: A Jersey WaterCheck Data story” blog and accompanying infographic.
- **Released the fourth update** of JWC metrics, including adding a new data story page focused on lead.

LEAD IN DRINKING WATER TASK FORCE /

LEAD SERVICE LINE (LSL) IMPLEMENTATION WORKGROUP

- **Created and disseminated resources** to advance the lead service line implementation, including publishing the 2023 Primer for Mayors – Let’s Get the Lead Out of Our Drinking Water: Lead Service Line Efficiency Measures.
- **Provided training to over 50 participants** on Lead Service Line Replacement Financing and Implementation in collaboration with the New Jersey Water Association (NJWA) **attended by** over 50 participants.
- **Submitted** comments to the New Jersey Department of Community Affairs on policies affecting administrative fees for road work projects like LSL replacement.

2023 ACCOMPLISHMENTS

- **Engaged communities and impacted populations** via a “Listen & Learn” session held in English and Spanish on lead in drinking water policy through the collaboration of Lead-Free NJ and Jersey WaterCheck.
- **Saw recommendations** from the 2021 Childcare Facilities Report and 2019 Lead in Drinking Water Report reflected in senate legislation.

WATER WORKFORCE TASK FORCE

- **Developed Water Workforce Utility Pilot Program** with Hudson County Community College and partnered with Veolia, NJ Water Association Apprenticeship Program, and NJ Utility Association. New Jersey Future received funding from Bank of America for the project (15 participants enrolled, 14 completed, five new internships created).
- **Explored water workforce initiatives** with various partners to support both entry-level and existing staff in the water sector.
- **Launched** the Emerging Water Leaders of Color Leadership Circle with funding from Spring Point Partners and in partnership with AGN Consulting, enrolled 10 leaders.

JERSEY WATER WORKS MEMBERS AND BACKBONE ORGANIZATION

- **JWW members attended the “Get the Lead Out Partnership”** event at the White House in January, where New Jersey was named one of EPA’s initial four lead service line replacement accelerators.
- **Held a successful first-ever JWW and Lead-Free NJ (LFNJ) joint membership meeting** and brought together 130 leaders from community, government, non-profit, private, philanthropic, consulting, and academic groups.
- **Participated in events around the state**, sharing information about the collaborative’s goals and efforts.
- **Coordinated a 10-member** New Jersey delegation to the One Water Summit and facilitated a peer exchange session.

STAY TUNED FOR JERSEY WATER WORKS’ 2024 WORK PLAN
(Or join the collaborative and be a part of establishing it!)

THE HANDS THAT BUILD AND MAINTAIN OUR WATER INFRASTRUCTURE.

The Union that Supports them.

LIUNA!

Laborers' International Union of North America
Michael E. Hellstrom, Vice President & Eastern Regional Manager

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Robert A. Briant, Jr.
CEO

David P. Ribble
Executive Director

KEYNOTE SPEAKER:

JOSEPH JACANGELO, PHD

Vice President, Director of Research, Stantec, and Immediate Past President of American Water Works Association (AWWA) (2023-2024)

Dr. Jacangelo has over 30 years of experience in environmental health engineering and public health. He was a past Chair of both the AWWA Technical and Education Council and the International Council. Dr. Jacangelo is also a past Chair of the Board of Directors of the WaterReuse Research Foundation. Dr. Jacangelo has published over 200 peer-reviewed and proceedings papers and is a faculty member at Johns Hopkins Bloomberg School of Public Health. He is a recipient of many AWWA awards, including the Volunteer of the Year Award and the Fuller Award (distinguished service). Dr. Jacangelo served in the Peace Corps in the Republic of the Congo.

NICK ANGARONE, PP/AICP

New Jersey Chief Resilience Officer and Manager of the Office of Climate Resilience, New Jersey Department of Environmental Protection

As Chief Resilience Officer, Nick Angarone coordinates statewide resilience policy as Vice-Chair of the Interagency Council on Climate Resilience, leads the implementation of the Statewide Climate Change Resilience Strategy, and provides guidance and support to local governments in their efforts to plan for and address climate change. As manager of the Office of Climate Resilience, he oversees the Bureau of Climate Resilience Planning and the Blue Acres program and administers New Jersey's Coastal Management Program. Nick also represents the NJDEP Commissioner on the NJ State Planning Commission.

CHRISTINE ASH

Acting Deputy Director, Water Division, US EPA Region 2

Christine Ash is currently serving as the acting Deputy Director for the Water Division in EPA

Region 2, where she assists with leading a team of dedicated professionals focused on various water programs, including but not limited to wetlands and estuaries, combined-sewer overflows and water quality standards, drinking water and wastewater management, and several grant programs related to water quality and water infrastructure improvements.

MICHAEL ASSANTE

Operations Project Manager, Veolia North America

Michael Assante is an Operations Project Manager for Veolia North America and currently manages the Operations Contract for the City of Bayonne, which involves management of the City's wastewater distribution system and wastewater collections system. Mr. Assante has 15 years of experience in the water and wastewater space, including Operations Management, Engineering Design and Consulting, and Capital Project Management. His specialty and passions within the industry involve hydraulic modeling of water and wastewater systems and operations, clear and easy-to-understand technical communications, cultivating forward-thinking team cultures, and materially improving the customer and community experience.

MICHAEL ATKINS

Communications Director, New Jersey Future

Michael Atkins oversees external and internal communications as Communications Director for New Jersey Future and coordinates a collaborative approach across the team to raise awareness for the organization's mission, goals, and successes. Before joining New Jersey Future, Michael advocated for a holistic watershed approach to address environmental inequities in the Los Angeles River watershed as Communications Director with the nonprofit Friends of the Los Angeles River. In addition to being an environmental justice advocate, he is an accomplished multimedia producer who has interviewed a broad array of subjects including academics, historians, active military, elected officials and Indigenous tribal representatives. Michael studied Politics and History at New York University.

SPEAKER BIOGRAPHIES

CHRISTINE BALLARD, PE

Client Service Leader, CDM Smith

Christine Ballard is a Client Service Leader for CDM Smith and serves as a co-chair for Jersey Water Work's Asset Management and Finance Committee. She holds a Mechanical Engineering degree from Clemson University and a Master of Science Degree in Engineering Management and Systems Engineering from Stevens Institute of Technology. As a professional, she has been guiding New Jersey water and wastewater agencies with project planning, delivery, and implementation and has acted as the principal-in-charge and Engineer of Record (EOR) for various projects. She is known for her ability to guide utilities through challenging circumstances so that they may achieve their objectives within a desired timeframe.

HAILEY BENSON

Co-Founder, North Bergen Earth Talks

Hailey Benson is an Intersectional ecofeminist, sustainable designer, and dedicated activist. As a Hudson County native, Hailey is committed to helping their local community thrive through sustainable initiatives and eco-minded education. They co-founded North Bergen Earth Talks and Union City Community Garden to encourage the local green movement. They're a fierce advocate for a clean water future with New Jersey Future's Sewage-Free Streets and Rivers campaign and the membership leader for Wild Ones NJ Gateway, a native plant restoration organization. They enjoy creating video-based content online to spread the word on how to get involved in protecting the environment. In their career, they craft and curate costumes for film and theater, where they fabricate from thrifted, upcycled, and dumpster-dove materials.

NICOLE BROWN

Client Development Manager, Suburban Consulting Engineers, Inc.; SISTEM (network of women of color in water), Emerging Leaders Project

Nicole Brown leverages over 25 years of water and wastewater expertise, focusing on enhancing system sustainability and efficacy. As the Client Development Manager at Suburban Consulting Engineers, she spearheads water and wastewater projects in NJ and PA, driving notable cost savings and operational enhancements. Nicole is renowned for her compelling public speaking and community outreach, effectively advocating for sustainable water management practices. Her commitment to fostering diversity, equity, and inclusion in the water industry is evidenced through impactful programs and initiatives aimed at nurturing the next generation of diverse water professionals.

HELMIN CABA

Mayor, City of Perth Amboy

On January 8, 2021, Mayor Caba made history as the first elected mayor of Dominican Republic descent in the City of Perth Amboy. Mayor Caba has been addressing the challenges facing the city's financial conditions, budget deficits, and the public health emergency of COVID-19. He has "rolled up his sleeves" with a tenacious effort to balance the city's budget while keeping in mind the highest priorities of our community's needs that make up a sizable Hispanic majority population. Mayor Caba looks to re-establish Perth Amboy as one of the leading cities in Middlesex County through effective management practices, economic development, and the need to brand the city's significant physical, financial, and historical assets. Mayor Caba's priorities include creating a more fair and prosperous city for all residents through collaborations. His vision is to transform the workforce for capacity development and growth.

JAN CHWIEDOSIUK, PE

Director of Distribution, Middlesex Water Company

Jan Chwiedosiuk is the Director of Distribution for Middlesex Water Company, a publicly traded investor-owned water and wastewater utility company primarily serving New Jersey and Delaware, where he oversees over 700 miles of transmission and distribution pipelines ranging in diameter from six inches through 60 inches. Mr. Chwiedosiuk has both a B.S. and M.S. in Civil Engineering from the New Jersey Institute of Technology. Additionally, he is a New Jersey licensed Professional Engineer and a W-4/C-2 Licensed Operator.

LEE CLARK

Program Manager, Funding Navigator, New Jersey Future

Lee Clark is responsible for managing the New Jersey Future Funding Navigator program, a statewide effort to help under-resourced localities access funding for drinking water, wastewater, and stormwater needs. His main focuses are engaging with municipal officials and stakeholders and designing solutions for water utilities serving overburdened communities. Lee's work experience includes working in the Green Acres program at New Jersey Department of Environmental Protection and New Jersey League of Conservation Voters. A local elected official, Lee holds a bachelor's degree in Political Science, concentrating in Political Communication, and a Master's degree in Business Communication from Rider University. Lee also holds a Certificate in Board Leadership & Governance through the DiverseForce Program from the University of Pennsylvania.

MICHAEL COHRS

Business Manager, Ridgewood Water

Michael Cohrs is the Business Manager for Ridgewood Water, a 100-year-old, complex, community water system serving 61,000 residents within a four town service area. His background includes experience in HAB remediation, managing a Technical Assistance

Program, as well as operator training and education programs. Michael holds a B.S. in Physics from Montclair State University and a B.A. in Secondary Education from Canisius University.

JAMES COSGROVE, JR., PE

Principal, One Water Consulting LLC

Jim Cosgrove recently founded One Water Consulting LLC to provide water resource services guided by the fact that ALL water (rainwater to wastewater) must be managed in an integrated manner. He is a registered professional engineer in New Jersey with over 35 years consulting experience in water resources management. He has specific expertise in NJPDES permit support, water quality modeling, watershed and stormwater management, environmental impact assessment, and resiliency planning. He received a B.S. degree in Civil Engineering from Lafayette College and an M.Eng. degree in Water Resource Systems Engineering from Cornell University. Jim has been actively addressing PFAS monitoring issues for wastewater treatment plants.

LAURIE ANN DOYLE

Grant Administrator for the Local Efficiency Achievement Program (LEAP), NJ Department of Community Affairs

Laurie Ann Doyle has experience working with various government programs. She is currently the Grant Administrator for the Local Efficiency Achievement Program (LEAP) at NJ DCA, managing program processes from guidelines to close-outs. Prior to LEAP, she worked as a Program Manager with NJ DCA's Sandy Recovery, as a Business Development Coordinator, and as a Director of Economic Development. She holds a Master's Degree in Public Administration from New York University, a Bachelor's Degree from Rutgers University, a Certification in Main Street Program from NJ DCA, a Certification in Commercial Real Estate from Monmouth University, and a Certification in Business Retention and Expansion from the Center for Economic Development Services.

SPEAKER BIOGRAPHIES

KRISTIN EPSTEIN, PE

***Project Manager, Northeastern U.S. LCR
Compliance Coordinator, CDM Smith***

Kristin Epstein has 10 years of experience in environmental engineering plus four years of experience in the drinking water industry as assistant director of Trenton Water Works (TWW). She brings a unique perspective through her 10 years serving in board and executive positions for non-profit organizations. She led TWW's Lead Service Line Inventory and Replacement Program. She has presented at several water industry conferences on topics related to the Environmental Protection Agency and state-specific lead and copper rule compliance and implementing lead service line replacement programs. Ms. Epstein received her undergraduate and master's degrees in Environmental Engineering from Princeton University and Johns Hopkins University.

KOUAO-ERIC EKOUE

Superintendent, New Brunswick Water Utility

Eric Ekoue is a Certified Public Manager and holds a Public Water Treatment System T4 and Public Water Distribution System W4 License. He serves on the Examination Board for the Water and Wastewater Licensing Operator. Eric has 17 years of experience in treatment, distribution, compliance, and project management. His utility thrives on providing the best water quality to the residents of New Brunswick and surrounding communities. Eric manages a diverse workforce and champions the licensing of everyone. He enjoys presenting at various schools and facilitates tours of his plant by students and community members. Eric's motto, FLOW (For the Love Of Water), vibrates through his workplace.

MICHAEL FURREY

***President, Agra Environmental and
Laboratory Services***

Michael Furrey is the President of Agra Environmental and Laboratory Services, a company specializing in laboratory services and consultation

to the water and wastewater industry. He holds a T-4 License, W-3 License, and aquatic pesticide applicator license for NJ and is the former chair for NJAWWA. He holds a B.S. in Chemistry from Cook College, Rutgers University. He is also an adjunct Professor at Rutgers University.

LINDA GREENSTEIN

New Jersey Senator (LD-14)

Linda Greenstein has served in the New Jersey Senate since November 2010. Previously, she served for six terms in the New Jersey General Assembly, a tenure that began in January 2000. Senator Greenstein is the first woman to represent the current 14th Legislative District in the Senate, which includes Cranbury, Jamesburg, Monroe, Plainsboro and Spotswood in Middlesex County and East Windsor, Hamilton, Hightstown and Robbinsville in Mercer County. A full time legislator, Senator Greenstein serves as Assistant Majority Leader of the State Senate as well as Chair of the Law and Public Safety Committee, Vice Chair of the Environment and Energy Committee and a member of the Budget and Appropriations Committee and the Labor Committee. She is also Chair of the bi-partisan Manufacturing Caucus.

JENNIFER HARRIS, P.E., CME

***Project Manager/Engineer, Environmental
Resolutions, Inc.***

Jennifer Harris has over 15 years of experience in Civil Engineering, with a primary focus on water and wastewater. She works as a Project Manager at Environmental Resolutions, Inc. in Mount Laurel, NJ. There she helps her clients with their water and wastewater treatment and distribution needs. She is currently working on more wastewater focused projects, but has years of experience with water treatment and distribution. She attended the University of Delaware, where she earned a degree in Civil Engineering, with minors in Environmental Engineering and Women's Studies. While at UD, she was involved in many groups, including being a Resident Assistant and being a member of Alpha Omega Epsilon, a professional and social sorority for

women in engineering and technical sciences. When not working, she enjoys reading and volunteering for Alpha Omega Epsilon and the Society of Women Engineers.

PATRICIA INGELIDO

Director of Division of Water Supply and Geoscience, New Jersey Department of Environmental Protection

Trish Ingelido is the director of the Division of Water Supply and Geoscience. She has over 20 years of experience in water resources management at the New Jersey Department of Environmental Protection. She previously served as the Assistant Director of the Water System Operations Element in the Division of Water Supply and Geoscience. She earned a B.S. in Environmental Science from Rutgers University, an M.S. in Environmental Policy from New Jersey Institute of Technology, and is a Certified Public Manager.

JENNIFER GONZALEZ, AICP, CFM, LEED-GA, ENV SP

Director of Environmental Services and Chief Sustainability Officer, City of Hoboken

Jennifer Gonzalez oversees public works including parks, public property, waste management, and green stormwater infrastructure in Hoboken, NJ. She advances asset management, sustainability in municipal operations, and resiliency projects such as ResilienCity Park. She supports emergency management, the Hoboken drinking water utility, and energy and sewer utilities. Ms. Gonzalez was a Principal Planner with Louis Berger and Environmental Planner with the County of Passaic, New Jersey. She holds certifications from the American Planning Association, National Association of Floodplain Managers, U.S. Green Building Certification Institute, and New Jersey Board of Professional Planners. She earned her M.A. in Environmental Policy from Lehigh University.

CHARLES JENKINS

Assistant Director of the Municipal Finance and Construction Element for the Division of Water Quality, New Jersey Department of Environmental Protection

Charles Jenkins has over 35 years of experience with the New Jersey Water Bank. The Municipal Finance and Construction Element (MF&CE) is responsible for the administration of several state and federally funded programs for the planning, design, and/or construction of wastewater, drinking water, and stormwater/nonpoint source management programs. Its mission is to assist communities to construct and fund sustainable infrastructure that protects water quality and public health. In addition to the funding programs, the Element administers the Treatment Works Approval construction permit program and is responsible for the implementation of State and Federal water infrastructure policies, initiatives, and requirements. Charles has a degree from Lehigh University.

SANDRA KUTZING

Vice President/Lead and Copper Strategy Leader, CDM Smith

Sandra Kutzing is a professional engineer and Vice President at CDM Smith in New Jersey with 20 years of experience in drinking water. She has a B.S. from the University of Illinois and an M.S. from the University of Washington. Ms. Kutzing is CDM Smith's Lead and Copper Strategy leader, assisting utilities with meeting the Lead and Copper Rule and developing lead service line replacement programs.

JOHN LIBITZ

Contract Compliance and Client Director, Veolia North America

John Libitz is the Contract Compliance & Client Director at Veolia North America. With 31 years of experience in operations and maintenance, Libitz has a demonstrated history of working in the water utility industry. Libitz is skilled in budgeting, business planning, environmental health and safety (EHS), GIS – Global Positioning

SPEAKER BIOGRAPHIES

System (GPS), environmental awareness, labor relations, dispute resolution, network management, and asset management for both vertical and linear maintenance. As a strong information technology professional, Libitz has HR, client, and labor relations experience. He participated in the Water Workforce Utility Program at Hudson County Community College as an instructor in the fall of 2023.

JOSEPH MANNICK

Section Chief, Bureau of Surface Water and Pretreatment Permitting, New Jersey Department of Environmental Protection

Joe Mannick is a Section Chief in the NJDEP Bureau of Surface Water and Pretreatment Permitting. He earned a Bachelor of Science in Industrial Engineering with minors in Mathematics and Philosophy from Penn State University. He has over 30 years of experience in surface water discharge permitting at the New Jersey Department of Environmental Protection, with over 10 years of experience in the Combined Sewer Overflow Program. Over the last 10 years the CSO Program has grown and changed from general to individual permits that are beginning to include facility-specific CSO abatement projects. Joe has dedicated his career to improving water quality and looks forward to further enhancing the waters of New Jersey.

TENISHA MALCOLM

Director of the Urban Mayors Policy Center, John S. Watson Institute for Urban Policy and Research at Kean University

Tenisha Malcolm is the Director of the Urban Mayors Policy Center at John S. Watson Institute for Urban Policy and Research at Kean University. In this role, Malcolm supports the Institute's work to support New Jersey Urban Mayors Association (NJUMA) member mayors in guiding communities as they seek solutions to various issues facing urban municipalities. She also provides technical support to the members of the NJUMA, focusing on policy analysis and research. Before joining the Watson Institute, Malcolm worked for several national and community-based nonprofits,

directing large-scale innovative programs, fundraising, and strategic development.

STEPHEN MARKS

Town Administrator, Town of Kearny

Stephen Marks was appointed as the Town Administrator for the Town of Kearny in February 2020. Stephen reports to the mayor and council and manages the daily operations of the Town. He also oversees the Town's \$9 million water utility and lead service line replacement program, as well as the Town's Affordable Housing Program which is responsible for rehabilitating 186 dwelling units. Before his current position, Stephen spent eight years working for the City of Hoboken and 18 years working for Hudson County. Stephen is a state licensed professional planner and member of the American Institute of Certified Planners (AICP). He graduated from The College of New Jersey with a degree in political science and from Rutgers University with a Master's in Public Administration (MPA).

LAUREN ROSENTHAL MCMANUS

Artist

Lauren Rosenthal McManus's watershed maps reframe the boundaries that define community. Combining research-driven activism with material essentialism, her river-centric maps emphasize the innate beauty and universal importance of freshwater systems. McManus's work is held in several institutional collections, including the Nurture Nature Center, the Charlotte Museum of History, and the Bank of America Collection. She holds a BFA from Washington University in St. Louis and an MFA from the University of North Carolina in Chapel Hill, where she was an urban livability fellow. She currently lives and works in Lambertville, New Jersey and serves on the City's Resilience Team.

NICOLE MILLER

Principal of MnM Consulting

Nicole Miller is a communications professional with experience creating targeted publicity and marketing campaigns. MnM Consulting specializes

in media development, digital and print publishing, brand strategy, content creation, and clean energy/sustainability education. MnM Consulting works with business, government, and non-profit clients on brand development, project management, event coordination, and product deployment. Ms. Miller is a Newark, NJ resident, a Newark Environmental Commission member advising the Mayor and City Council on sustainability issues, Chair of the Newark Green Team, and Co-Chair of NewarkDIG (Doing Infrastructure Green). She serves as co-chair for the Jersey Water Works Steering Committee.

CATHERINA MIRASOL

Director, Continuing Education & Workforce Development, Hudson County Community College (HCCC)

Catherina Mirasol came to Hudson with years of accounting experience and a varied work background. She was Coordinator for the Center for Business and Industry, then promoted to Director, creating and sustaining workforce development programs. Currently, Catherina oversees HCCC's 20+ cost centers, the Workforce Development's business client training programs, and the Center for Adult Transition. She has been a medical biller, central registration supervisor for a hospital, finance assistant for a computer storage and backup manufacturer, purchasing manager at a private school, and had a brief career as a nurse. Catherina holds a BA in Communications and an Associate Degree in Nursing.

ROSANA PEDRA NOBRE

Water Quality Manager, Hudson River Foundation and New York-New Jersey Harbor & Estuary Program

Rosana Pedra Nobre is the Water Quality Manager at the Hudson River Foundation and the New York-New Jersey Harbor & Estuary Program, where she works with partner organizations and agencies to manage water resources and improve water quality in the Harbor Estuary. She dedicates her time towards incorporating science, data collection, and community engagement into addressing water quality challenges and uses an educational lens to communicate science.

Rosana has an Ed.M. in science education and a B.S. in environmental sciences from Rutgers, the State University of New Jersey.

YASMINE PESSAR

Principal Environmental Planner, Department of Environmental Services, City of Hoboken

As the Principal Environmental Planner, Yasmine Pessar works with the Director on the planning and implementation of a wide range of sustainability and resiliency projects to maintain, improve, and expand city parks, open spaces, and buildings, with a specialized focus on the environmental impacts of these investments. Yasmine contributes nearly a decade of environmental planning experience within the industry. Prior to joining Hoboken, she worked as consultant at Insight Civil Engineers, Dewberry Engineers and the MTA New York City Transit, CPM Environmental Engineering Division. Yasmine holds a BA in Urban Planning & Geography from SUNY Albany and an MA in City and Regional Planning from Hunter College.

GABRYELLA PULSINELLI

Environmental Specialist, New Jersey Department of Environmental Protection

Gabryella Pulsinelli received her Bachelor's from the University of Rochester in Environmental Studies in 2016 and her Master of Arts in Sustainability from Wake Forest in 2019. She is pursuing her Ph.D. at Rutgers in Planning and Public Policy with a focus on Environmental Policy. She has been with NJDEP for five years in the Municipal Stormwater Unit and currently serves as a case manager for Essex, Sussex, and Union.

RICK RICHARDELLA

Bureau Chief, Division of Local Government Services, NJ Department of Community Affairs

Rick Richardella was appointed Bureau Chief for the State of New Jersey, Division of Local Government Services, in 2019. Rick was a former Chief of Police of the Township of Maplewood and was also a Public Safety Consultant-Subject Matter Expert for the

SPEAKER BIOGRAPHIES

International City/County Management Association in Washington, DC. As Bureau Chief, Rick oversees the Local Assistance Bureau. Rick also assisted the Governor's Office with the takeover of Atlantic City, the implementation of the County of Camden Metro Police Department, the Borough of Lake Como-Belmar, the City of Woodbury, and the Borough of Woodbury Heights Police Shared Services.

SUSAN ROSENWINKEL

Assistant Director of the Water Pollution Management Element for the Division of Water Quality at the New Jersey Department of Environmental Protection

Susan Rosenwinkel is the Assistant Director of the Water Pollution Management Element for the Division of Water Quality at the New Jersey Department of Environmental Protection. This Element includes the Bureau of Surface Water and Pretreatment Permitting and the Bureau of Ground Water Residuals and Permit Administration. Both programs manage New Jersey Pollutant Discharge Elimination System permits, including discharges to surface water, groundwater, residuals, and combined sewer overflows. She has been with the Department for 34 years. Susan has a degree from the College of Engineering at Rutgers University.

ELLIOTT RUGA

Policy & Communications Director, New Jersey Highlands Council

Elliott Ruga has over 25 years of environmental and historic preservation advocacy experience. Working with the Coalition since November 2007, he leads the creation and implementation of media and educational campaigns. As the Coalition's senior policy advocate, Elliott participates at Highlands Council meetings, works with the State Legislature, county commissions, municipal officials, the NJ Congressional Delegation, regulators and agency officials, advocating for legislation and regulations that protect Highlands natural and cultural resources. He also provides guidance to grassroots groups and promotes Highlands municipal conformance. He has a

professional background in communications, film, and multi-media production (awarded 2 Emmys), including 17 years in television production and operations at NBC.

DON SHIELDS

Vice President and Director of Engineering, New Jersey American Water

Don Shields oversees over 50 professionals including construction managers, engineers, planners and geographic information systems (GIS) specialists. He is responsible for delivering New Jersey American Water's capital investment program of more than \$350 million per year. In his role, he provides oversight to engineering activities in the other Eastern Division states, which includes New York, Virginia and Maryland. Prior to his current role, he served as Engineering Director of New Business Development for American Water's Corporate Engineering Group. He also spent ten years at American Water's former subsidiary, Applied Water Management. He has experience with designing, building and commissioning membrane bioreactors, a key technology used in water reclamation and reuse. Prior to joining American Water, Shields spent ten years working for Bergen County Utilities Authority in Northern New Jersey. Shields is a licensed Professional Engineer in New Jersey, and earned a Bachelor of Science degree in Mechanical Engineering from Villanova University.

SAMANTHA THOMAS

Municipal Finance and Construction Element, New Jersey Department of Environmental Protection

Samantha Thomas graduated from Rutgers University School of Bloustein in 2023 with a Master's in City and Regional Planning, with a concentration in Environmental Planning. She has worked within the NJDEP Municipal Finance and Construction Element since 2022 to develop and implement the Building Resilient Water Infrastructure Climate Change Resilience Guidance for the New Jersey Water Bank Program. This guidance ensures that future, publicly funded water infrastructure considers climate change impacts consistent with the most up-to-date New Jersey climate science and State policy.

ALAINA UNGARINI

***Planning and Program Coordination Section,
Bureau of Water System Engineering, New Jersey
Department of Environmental Protection***

Alaina Ungarini is an Environmental Specialist in the Bureau of Water System Engineering. She started her career at the New Jersey Department of Environmental Protection (NJDEP) in 2017, after graduating from Lafayette College in Easton, PA, with a degree in Environmental Studies and Government and Law.

DANIEL VAN ABS, PHD, PP/FAICP

***School of Environmental and Biological Sciences,
Rutgers University***

Dr. Daniel Van Abs is a Professor of Professional Practice at Rutgers University, where he focuses on planning and management policy for water infrastructure, water supply, wastewater and watershed protection. He has 42 years of experience in water resources and environmental management with Rutgers, the Highlands Council, NJ Water Supply Authority, NJ Department of Environmental Protection, and Passaic River Coalition. A Rutgers graduate, he holds a Ph.D. in Environmental Science from SUNY-College of Environmental Science and Forestry. He is a Professional Planner and a College of Fellows, American Institute of Certified Planners member. See www.danvanabs.com for more details.

DENISE VENUTI FREE

***Senior Director of Communications & External
Affairs, New Jersey American Water***

Denise Venuti Free is responsible for overseeing communications and external affairs for New Jersey American Water, including customer education, media relations, issues management, and community outreach, as well as municipal engagement and workforce development programs. Free is the chairperson of the Communications Committee for the New Jersey Utilities Association and is a current member and past chairperson of the Communications

Committee for the National Association of Water Companies. She serves on the NJ PBS Board of Trustees, the Advisory Board for the Salvation Army Kroc Center in Camden, and the Advisory Board for New Jersey SHARES. Free also participates in the US Water Alliance's Camden Water Equity Task Force. She is a member of the Water Workforce Taskforce of Jersey Water Works, and she was a Fellow in Lead New Jersey's Class of 2018. A lifelong resident of New Jersey, Free earned a bachelor's degree in communications from Rutgers University in New Brunswick.

NICOLE WILEY

Engineering Practice Lead, American Water

Nicole Wiley graduated from Stevens Institute of Technology with a Bachelor's Degree in Environmental Engineering and received a Master's Degree in Civil/Environmental Engineering from Rutgers University. She has 27 years of experience in the water/wastewater industry, with 12 years in consulting and the rest at American Water, with several of those years in operations. Nicole's current role is Engineering Practice Lead for water treatment. Nicole is an active member of the American Water Works Association, serving as member and chair of various national and local committees, and was the former chair of the NJ Section.

DAVID ZIMMER

***Executive Director, New Jersey Infrastructure Bank
(NJ I-Bank)***

David Zimmer serves as the Executive Director of the NJ I-Bank, the State's construction financing Authority, which provides low-interest loans for environmental and local transportation infrastructure projects. Mr. Zimmer introduced successful loan programs to broaden financing options and bring transparency to borrowers. He improved the efficiency of I-Bank with the development of modern, web-based loan management systems that minimize time and administrative costs for project sponsors. Mr. Zimmer holds a Master's degree in Business Administration from the University of Notre Dame and a Bachelor's in Civil Engineering from the University of Dayton. For more information on NJ I-Bank, visit www.njib.gov.

COMMITMENTS 2024

Jersey Water Works (JWW) members are proud to announce their commitments for 2024 — new projects, initiatives, and actions that will be utilized to transform New Jersey’s water infrastructure. These commitments demonstrate JWW members’ dedication to advancing continued investment in water infrastructure, as well as the need to support strong, reliable water systems.

ATLANTIC COUNTY UTILITIES AUTHORITY (ACUA)

Removing Microplastics from Wastewater

The ACUA is partnering with PolyGone, a startup created by Princeton University graduates, to remove microplastics from treated wastewater at its wastewater treatment facility in Atlantic City, New Jersey. A microplastic filtration system, known as the “Artificial Root,” will be installed to capture particles before the treated wastewater is released into the ocean. The pilot project will be the first of its kind and, if successful, can be replicated at other treatment facilities.

LEAD-FREE NJ

Holistic Lead Remediation, Water Advocacy & Accelerated LSL replacements

Lead-Free NJ will add a community hub in Essex County and work with the hubs, partners, and members to educate the public about lead hazards and work to secure funding for holistic lead remediation. The recently launched Water Advocacy Committee will continue to convene an open space to investigate lead in drinking water issues and supplement the policy work of the Jersey Water Works Lead in Drinking Water Taskforce. Lead-Free NJ will strengthen its partnership with EPA Accelerator City Trenton and Trenton Water Works in collaboration with the Trenton Hub to support the replacement of lead service lines.

COMMITMENTS 2024

MOONSHOT MISSIONS

Moonshot Missions' goal for 2024 is to assist at least 100 underserved, environmental justice communities with drinking water and clean water challenges.

RIDGEWOOD WATER

In 2024, Ridgewood Water will continue to support the JWW Lead Service Line Implementation Workgroup and share experiences on our path towards completing the following:

1. Replace another 150 Main to Curb service lines.
2. Complete a comprehensive inventory by identifying remaining unknowns through Hydro-Excavation, In-home Inspections, or Customer Surveys.
3. Achieving final approval on ordinances and shared service agreements with all four towns serviced by the utility.
4. Completing a comprehensive Lead Service Line Replacement Plan and new public facing Website Landing Page.

SUSTAINABLE JERSEY, NEW JERSEY FUTURE, AND THE WATERSHED INSTITUTE

The Watershed Institute and New Jersey Future's Mainstreaming Green Infrastructure (MGI) program will be updating their enhanced model Stormwater Control Ordinances (SCOs) and providing municipalities with supporting guidance to update their own local SCOs. This will help communities meet the requirements of NJDEP's newly effective Inland Flood Protection Rule while simultaneously gaining Sustainable Jersey action points.

**To add your 2024 commitment to our website list,
contact info@jerseywaterworks.org**

SPECIAL THANKS TO OUR 2023 Jersey Water Works Promotional Partners

Association of New Jersey Environmental Commissions

Lead-Free NJ

New Jersey Department of Environmental Protection

New Jersey Future

New Jersey Infrastructure Bank

NY-NJ Harbor & Estuary Program

Princeton Hydro

Rutgers Cooperative Extension Water Resources Program

U.S. Environmental Protection Agency Region 2

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**New Jersey Future Tools
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New Jersey Developers
Green Infrastructure Guide 2.0
[DEVELOPERSGUIDE.NJFUTURE.ORG](https://developersguide.njfuture.org)



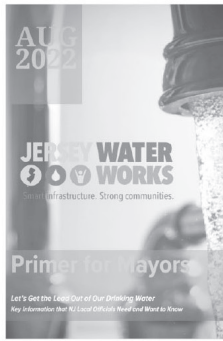
New Jersey Green Infrastructure
Municipal Toolkit
[GITOOKIT.NJFUTURE.ORG](https://gitoolkit.njfuture.org)



New Jersey Stormwater Utility
Resource Center
[STORMWATERUTILITIES.NJFUTURE.ORG](https://stormwaterutilities.njfuture.org)

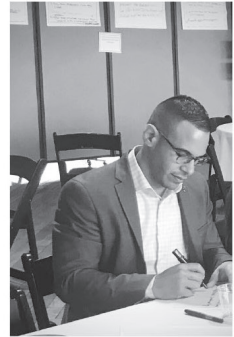


David Zim
Executive Director
Infrastructure

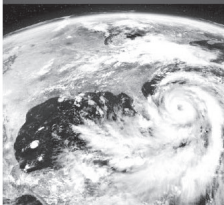


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Smart infrastructure. Strong communities.



Planning for Our Future:
Effects of Climate Change on CSC



Jersey Water Works
CSC's Legislative Committee
February 2022
JERSEY WATER WORKS

BECOME A MEMBER



Lead in Drinking Water:
A Permanent Solution for New Jersey
Report of the Jersey Water Works Lead in Drinking Water Task Force

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ROSANA PEDRA NOBRE

NY-NJ Harbor & Estuary Program

JERSEY WATER WORKS

COMMITTEE LEADERSHIP

ASSET MANAGEMENT AND FINANCE COMMITTEE

Co-chairs: *Christine Ballard, CDM Smith; Zach Green, Raftelis*

COMBINED SEWER OVERFLOW COMMITTEE

Co-chairs: *Kareem Adeem, City of Newark; Andy Kricun, Moonshot Missions; Michele Langa, Hackensack Riverkeeper and NY-NJ Baykeeper*

CLIMATE RESILIENCE COMMITTEE

Co-chairs: *Russ Dudley, Arcadis; Patricia Lindsay-Harvey, Willingboro Municipal Utility Authority and Willingboro Green Team*

DATA ADVISORY COMMITTEE

Chair: *Dan Van Abs, Ph.D., PP/FAICP, Rutgers University, School of Environmental and Biological Sciences*

GREEN INFRASTRUCTURE COMMITTEE

Co-chairs: *Bill Cesanek, AICP, CDM Smith; Christopher Obropta, Ph.D., P.E., Rutgers Water Resources Program; Rosana Pedra Nobre, New York-New Jersey Harbor & Estuary Program*

LEAD IN DRINKING WATER TASK FORCE

Co-chairs: *Tiffany Stewart, City of Newark; Dawn Zimmer, Schneider Electric & Former Mayor of Hoboken, NJ*

LEAD SERVICE LINE IMPLEMENTATION WORKGROUP

Co-chairs: *Rich Calbi, Ridgewood Water; Mike Furrey, Agra Environmental and Laboratory Services*

WATER WORKFORCE TASK FORCE

Co-chairs: *Kendra Morris, Veolia; Andy Kricun, Moonshot Missions*

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