

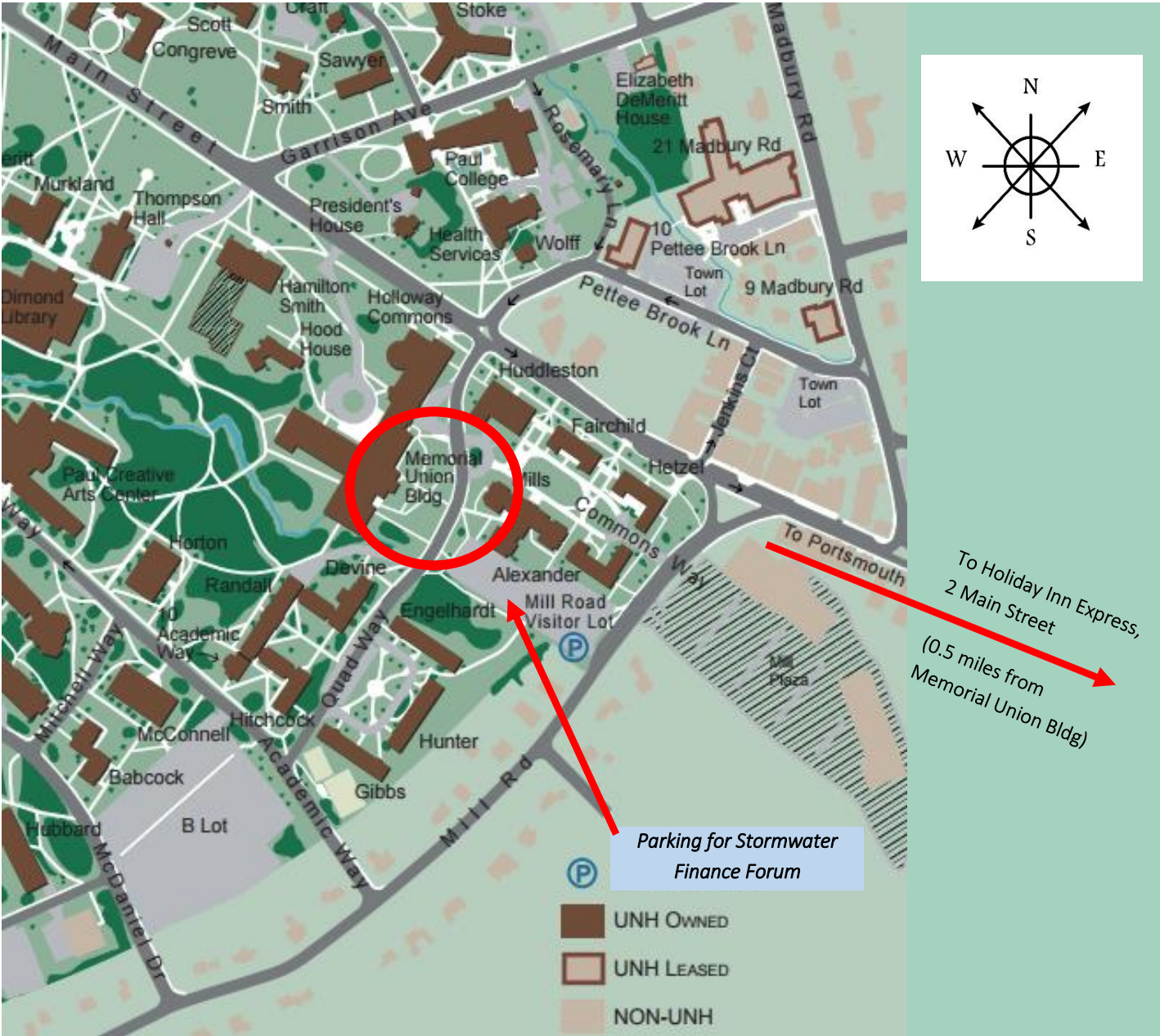


Water as a Resource:
Financing Opportunities and Challenges for
Municipal Stormwater Management

November 15 – 16, 2016

Hosted by: New England Environmental Finance Center
Sponsored by: United States Environmental Protection Agency

UNH Campus Map



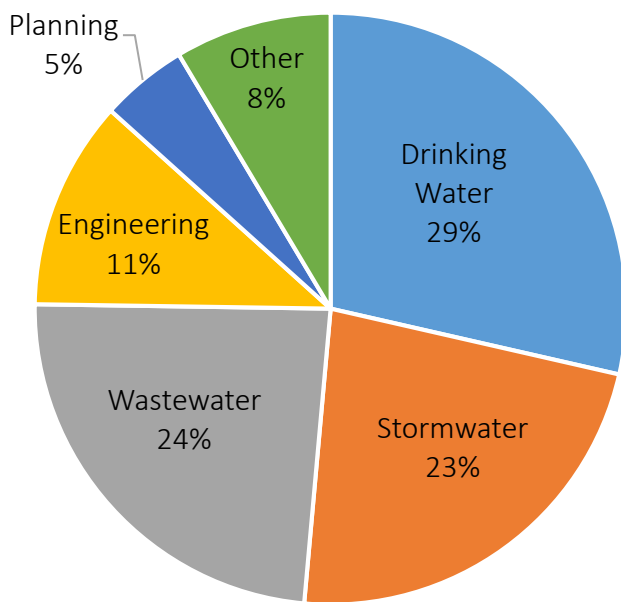
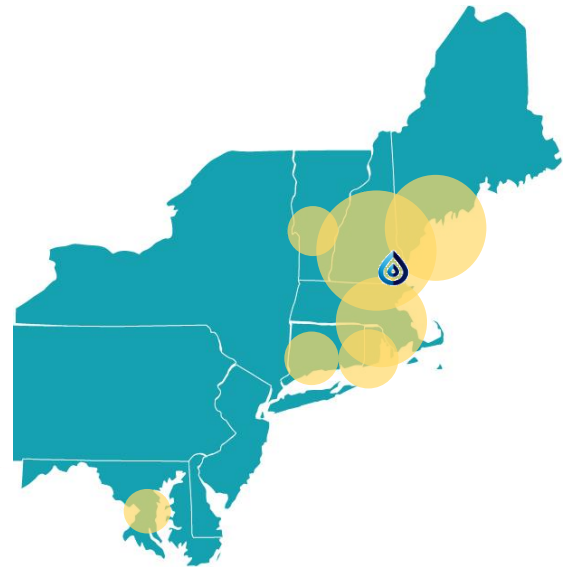
Conference Location:
University of New Hampshire
Strafford Room, Memorial Union Building
83 Main Street
Durham, NH 03824



Together we represent...

over **61 municipalities**

from **7 states**



...over 6 different sectors including **Stormwater, Drinking Water** and **Engineering**

...and serve **populations** between **3,000** to

Nationwide

...say hello!



Welcome

We are thrilled to convene this gathering of municipalities, regional organizations, experts, policymakers and champions to move forward on the national and regional goal to manage non-point source pollution that is threatening our water quality.

A new approach is needed to shift our thinking about stormwater as a waste to stormwater as a resource and an opportunity that can provide numerous community, environmental, and financial benefits. We have an opportunity at this Forum to challenge each other with new ideas, to tell our stories and relate our experiences, and to motivate each other to take action on small and large changes in the way we manage this valuable resource.

It is our intent to extract and synthesize action items from this Forum, and to keep in contact with you. We hope to create a format to allow a regional dialogue, a peer-to-peer connection, and to be a source of assistance to you. Thank you for being a part of the conversation on how integrated stormwater management can yield sustainable benefits to communities, the environment, and to our economies.

Sincerely,

Martha Sheils, Director, New England EFC

A special thank you to my colleagues Jack Kartez, Brent McCloskey, Nany Martin, Phaeng Southisombath, Pat Puschock and Kassandra Girard.

Acknowledgments

Thank you to the following individuals and groups for their help and input on both the substance and logistics of the Forum:

UNH Stormwater Center: Jamie Houle,

EPA Region 1: Anne Lieby, Josh Secunda, Erik Beck, and Margherita Pryor

EPA Water Infrastructure Resiliency Finance Center: Jim Gebhardt, Kristyn Abhol and David McKay



Agenda: Tuesday, November 15

Registration and Breakfast

8:30 – 9:00 am

Welcome & Introduction

9:00 – 9:15 am

Martha Sheils, Director, New England Environmental Finance Center

Curt Spalding, Regional Administrator, EPA Region 1

Jim Gebhardt, U.S. EPA, Director of the Water Infrastructure and Resiliency Finance Center

Session 1: Water as a Resource—Opportunities and Challenges

9:15 – 9:45 am

While stormwater is often seen as a burden, it can also be a valuable resource that provides numerous opportunities and benefits to communities. This session will explore the fundamental change in our approach to managing rainfall as a problem to be collected, treated and disposed of, to an opportunity that can provide numerous community, environmental, and financial benefits. An integrated range of approaches that infiltrate, filter, and capture rainfall before it can create water quality and flooding problems can transform the look and function of towns, cities and regions into more sustainable, resilient, and beautiful places to live.

This session will explore those opportunities, while acknowledging the tremendous challenges and barriers that New England communities face as they try to manage their aging existing water infrastructure in the face of more extreme weather events, tight budgets, and seemingly endless stormwater responsibilities.

Introduction: **James Houle**, Program Director, University of New Hampshire Stormwater Center

Paul Niedzwiecki, Executive Director, Cape Cod Commission

Scott Horsley, Principal, Horsley Witten Group

Session 2: Understanding Your Costs

9:45 – 10:45 am

This session opens the discussion on how establishing current and future stormwater expenditures and the baseline level of service shapes conversations and planning about stormwater program objectives, levels of service, and costs. Session highlights include understanding municipal costs including opportunities for using existing resources as well as new revenue before planning and budgeting for a stormwater program, and general principles and approaches to tackle this task. A case example of the City of South Burlington, VT shows how an early New England municipal program is organized and how the City is now assisting neighboring towns in beginning this budget planning task.

Rich Claytor, President, Horsley Witten

David Wheeler, Assistant Stormwater Superintendent, City of South Burlington

Moderator: **Jack Kartez**, New England EFC



Agenda: Tuesday, November 15

Networking Coffee Break

10:45 – 11 am

Session 3: Harnessing Technical Assistance and Tools to Access and Plan for Stormwater Funding

11:00 am – 12:00 pm

This session will feature a discussion with financial and technical assistance providers on how they help communities consider upcoming needs, identify various sources of revenues and funding, and maximize available dollars to fund long-term stormwater needs. This session will also highlight tools and resources available to municipalities for planning and budgeting their stormwater management programs.

Brent McCloskey, Research Associate, University of Maryland EFC

Rich Niles, Water Resources Project Manager, Amec Foster Wheeler Environment and Infrastructure, Inc.

Bill Boulanger, Utilities Superintendent, Dover, NH

James Houle, Program Director, University of New Hampshire Stormwater Center

Moderator: **Nancy Martin**, Program Associate, New England Environmental Finance Center

Network Lunch (Provided)

12:00 – 12:50 pm

Session 4: State Sources of Funding

1:00 – 2:00 pm

This session will feature a panel of experts representing public funding and financing agencies and organizations. Topics will include types of funding available to communities, eligibility requirements, application processes, and how these funds can be used together to successfully complete projects. Highlights include the use State Revolving Funds for stormwater management, 319 funds, and the Rhode Island Infrastructure Bank.

Jeffery R. Diehl, Executive Director and CEO, Rhode Island Infrastructure Bank

Terisa Thomas, CWSRF Project Manager, Vermont Department of Environmental Conservation

John True, CWSRF Program Manager, Maine Department of Environmental Protection

Barbara McMillan and **Steve Landry**, New Hampshire Department of Environmental Services

Moderator: **Erik H. Beck**, Environmental Protection Specialist, EPA Region 1



Agenda: Tuesday, November 15

Session 5: Innovative Public Funding Approaches

2:00 – 3:00 pm

This session will feature panelists who will highlight innovations and opportunities for municipal stormwater planning activities and infrastructure investments using public funding sources. Highlights include innovative uses of bonds, fees and taxes, and case studies of methods and approaches that have been successfully (and unsuccessfully) used to fund stormwater programs.

David Hyder, Principal, Hawksley Consulting

Chris French, Director, Stormwater Programs, Water Environment Federation

Moderator: **Brent McCloskey**, Research Associate, University of Maryland EFC

Networking Coffee Break

3:00 – 3:15 pm

Session 6: Integrating Public-Private Investment

3:15 – 4:15 pm

This session will highlight examples of how integrating both private sector and public sector investment in stormwater management can create multiple community benefits. This session will feature examples of the variety and range of public-private partnerships and how private sector engagement can benefit the bottom line of a stormwater program. Highlights include 1) case studies of the use of Public-Private-Partnerships (P3s) in other parts of the country, and how they can be relevant to New England communities, 2) businesses banding together to lower their overall stormwater management costs, and 3) how zoning changes in redevelopment areas that include LID requirements can have the power to lower the shared cost of stormwater management.

Rob Roseen, Principal Owner, Waterstone Engineering

Tamara Lee Pinard, Community Initiatives Manager, The Nature Conservancy, Maine

John DiBari, CFO, Site Specific, NextPath Finance

Moderator: **Jim Gebhardt**, EPA, Director of the Water Infrastructure and Resiliency Finance Center

Day 1 Wrap—Up

4:15 – 4:30 pm

Martha Sheils, New England Environmental Finance Center

Walking tour of UNH Stormwater Center Installations (Optional)

4:30 – 5:30 pm



Agenda: Wednesday, November 16

Registration and Breakfast

8:30 – 9:00 am

Morning Keynote

9:00 – 9:30 am

Working collaboratively with local municipalities can accelerate adoption of better stormwater control measures and will lead the implementation wave cheaper, more effectively and with a lower maintenance burden than anyone ever imagined.

James Houle, Program Director, University of New Hampshire Stormwater Center

Workshop: Setting a Financially Healthy Stormwater Fee for a Resilient Future

9:30 – 10:30 am

This workshop will focus on how to set appropriate stormwater fees that incorporate future asset management needs in a changing climate. In-class exercise will focus on homework assignment assigned ahead of time.

Session Leader: **Jim Riordan**, Principal Scientist, ESS Group

Networking Coffee Break

10:30 – 10:45 am

Panel: Public Consensus-Building

10:45 – 11:45 am

Stakeholder support that results from an effective public outreach strategy is critical for the adoption and implementation of a stormwater funding mechanism. This session will feature a panel discussion of New England communities' experiences and lessons learned on how a public outreach and stakeholder engagement process can contribute to the development and implementation of an effective program.

Josh Secunda, US Environmental Protection Agency, Region 1

Ed Suslovic, City Councilor, Portland Maine

Jeff Edelstein, Principal, Edelstein Associates

Moderator: **Jack Kartz**, New England EFC

Forum Wrap-Up and Evaluation

11:45am – 12:15 pm

This session will highlight key themes from the forum, discuss the formation of a network of peers and professionals to focus on needs for technical assistance, and identify ways to support a community of practice that will maintain the forum's momentum

Martha Sheils and **Jack Kartz**, New England Environmental Finance Center



Speaker Bios

Erik H. Beck, beck.erik@epa.gov

Environmental Protection Specialist, EPA Region 1

Erik Beck is the Nonpoint Source Coordinator for EPA's 319 program in New Hampshire, the project officer for the Region One Environmental Finance Center work, and is involved with many other issues, often involving stormwater. He has Bachelor's and Master's Degrees in Economics.

Bill Boulanger, b.boulanger@dover.nh.gov

Superintendent of Public Works and Utilities, City of Dover, New Hampshire

Bill Boulanger has worked for the City of Dover for 42 years. He is a long-serving member of the New Hampshire Water Works Association (NHWWA), where he has been on the Board of Directors for the past seven years. Boulanger has taught and continues to teach many classes for NHWWA and has mentored many municipal employees in water-related management. Mr. Boulanger holds many certifications, including grade IV water distribution, grade II water treatment, grade III in wastewater treatment, and grade IV in wastewater collection. During his career with Dover, Mr. Boulanger also developed and implemented a regionally acclaimed directional flushing program and his expertise in this area is recognized throughout the state. Mr. Boulanger and his staff have also installed supervisory control and data acquisition (SCADA) systems in well stations and pump stations for both water and sewer, installed automated billing meters and implemented asset management inventory systems for water distribution, hydrants, wells, pump stations, leak detection and more. In May 2016, Mr. Boulanger received the EPA's Region 1 Environmental Merit Award, which honors those who have made outstanding contributions to protect New England's environment.

Richard Claytor, rclaytor@horsleywitten.com

President, Horsley Witten Group

Rich has more than 30 years of experience in the field of water resource assessment, watershed planning, stormwater management design, and land use management. He is currently the President with the consulting firm of Horsley Witten Group located in their Sandwich, MA office. Prior to joining HW, Rich was the Principal Engineer for the Maryland based, Center for Watershed Protection. Rich has a BS in Civil Engineering from Union College, in Schenectady, NY; he is a Registered Professional Engineer, a LEED Accredited Professional and a Massachusetts Approved Soil Evaluator.

John DiBari, john.dibari@nextpathfinance.com

CFO, Site Specific, NextPath Finance

John DiBari has extensive experience in structuring complicated financial transactions including solar, public-private partnerships and real estate transactions. He has raised over \$2 billion to support projects benefiting municipal, state and federal governmental organizations. Previously, Mr. DiBari lead transaction finance and FP&A for Corvias Group which partners with governmental organizations to create innovative public-private partnerships. DiBari holds an MBA from the Franklin W. Olin Graduate School of Business at Babson College, as well as a Bachelor of Arts in Psychology from Hobart and William Smith Colleges. DiBari serves as a board member and Treasurer for the Aquidneck Island Planning Commission.



Speaker Bios

Jeffrey R. Diehl, JDiehl@riinfrastructurebank.com

Executive Director and CEO, Rhode Island Infrastructure Bank

Jeffrey R. Diehl is the Executive Director and CEO of Rhode Island Infrastructure Bank, a quasi-state agency whose mission is to invest in key infrastructure in the State of Rhode Island including programs focused on clean water, drinking water, energy efficiency and renewable energy projects for municipalities, quasi-state agencies, commercial and residential property owners. Mr. Diehl has over 35 years of experience in public finance and prior to this role was the Managing Partner of Strategic Sovereign Advisors LLC, a consulting firm advising governments and financial institutions. Previously, he held various senior positions at HSBC, a global financial institution, including Vice Chairman – US Public Sector and Global Head of Public Sector Banking. He holds BA and MBA degrees from the University of Michigan.

Jeff Edelstein, jledelstein@gmail.com

Principal, Edelstein Associates

Jeff Edelstein has been a public policy mediator since 1995, and now focuses his efforts towards political transformation and civic innovation. His recent book, *From Oath to Action: Simple Acts of Courage to Rebuild American Democracy*, presents a new approach to political leadership that can be applied at all levels of government—from local communities to Congress. He is the founder of the Maine Civic Innovation Initiative and the Greater Portland Sustainability Council and is convening a process to create a New England Civic Innovation Network. For more information, see www.jeffedelstein.com.

Chris French, cfrench@wef.org

Director, Stormwater Programs, Water Environment Federation

Chris French is the Director of Stormwater Programs for the Water Environment Federation (WEF). In his position at WEF, Chris is responsible for managing the stormwater program and overseeing the recently launched WEF Stormwater Institute, a center of excellence and innovation that provides leadership focused on national sustainable stormwater management. Mr. French has a diverse background in watershed and water quality management having worked in government, non-profit and private sectors over the past 20 years. In these various capacities, he has both implemented and interpreted the Clean Water Act and state water quality statutes in a variety of capacities. Mr. French holds a Bachelor of Science in Environmental Management and Biology from South Dakota State University.



Speaker Bios

Jim Gebhardt, Gebhardt.Jim@epa.gov

Director of EPA's Water Infrastructure and Resiliency Finance Center

Mr. Gebhardt was appointed Director on September 30. Jim has over 30 years of experience in the public finance, bond insurance and investment management businesses including over 20 years as Chief Financial Officer of the New York State Environmental Facilities Corporation ("EFC"). He was responsible for overseeing EFC's financing and investment activities, including those related to the multi-billion dollar local government focused New York State Clean Water and Drinking Water Revolving Funds (the "SRFs"). Critical management responsibilities included setting strategic direction for these programs, particularly in the areas of financing, investment, policy development and management. From 2007 through 2013, Jim served as a member of USEPA's Financial Advisory Board ("EFAB"). Investment and funding strategies that he implemented while at EFC were the focal point of two EFAB reports that he was lead author on: "The SRF Investment Function: Current Status and Prospects for Enhancing SRF Sustainability," 2011 and "Utilizing SRF Funding for Green Infrastructure Projects," 2014. Jim also consulted internationally working with the World Bank in the Philippines and the US Government in India on matters related to local government infrastructure finance. Prior to joining EFC, Jim served as Assistant Vice-President of Continental Insurance Co. Asset Management, where he served as a tax-exempt portfolio manager, and as Vice-President of Financial Guaranty Insurance Co. where he served as a lead underwriter in the Utilities and Structured Finance Groups. He has also served as a financial analyst with Bankers Trust Co., now a division of Deutsche Bank, and with Oppenheimer & Company. Prior to joining EPA, he served as Chief Risk Officer for BondFactor Co. LLC, an insurance and structured products development company. Jim earned a B.A. in Anthropology from the State University of New York ("SUNY"), Albany and a M.S. in Resource Management and Policy from the SUNY College of Environmental Science, Syracuse. He is a Chartered Financial Analyst.

Scott Horsley, shorsley@horsleywitten.com

Principal, Horsley Witten Group

Scott has 30 years of professional experience in the fields of watershed planning and water resources management. He has worked as a consultant to federal, state, and local jurisdictions, and private industry throughout the United States, Central America, the Caribbean, the Pacific Islands, and China. Scott has been an innovator in the environmental profession, and thrives on bringing new and fresh approaches to challenging projects. Scott has a strong understanding of the full range of technical, planning, and policy issues associated with land use and environmental science. Scott has served as an instructor for a nationwide series of EPA workshops on groundwater protection and coastal resources management. He has also served on numerous advisory boards to the EPA, the National Academy of Public Administration, Massachusetts Department of Environmental Protection (DEP), Massachusetts Executive Office of Energy and Environmental Affairs (EEA), National Groundwater Association, and Massachusetts Audubon Society. Scott has received national (EPA) and local awards (Mashpee Conservation Commission) for his work in the wetlands and stormwater management fields. He has taught numerous seminars in water resource protection, and is an Adjunct Professor at Tufts University where he teaches courses in water resources policy and low impact development (LID).



Speaker Bios

James Houle, james.houle@unh.edu

Program Director, UNH Stormwater Center

James Houle is the Program Director for the Stormwater Center at the University of New Hampshire. His responsibilities include directing and managing the Stormwater Center's growing body of research projects. Areas of expertise include diffusion of innovative stormwater management solutions, the design and implementation of innovative stormwater control measures including green infrastructure (GI), and low impact development (LID) strategies, planning and implementation, operation and maintenance, and water resource monitoring. Dr. Houle holds a Ph.D in Natural Resources and Environmental Science and has over fifteen years of experience with water quality related issues in New England and is a certified professional in storm water quality (CPSWQ) and a certified professional in erosion and sediment control (CPESC).

David Hyder, David.Hyder@hawksley.com

Principal, Hawksley Consulting

Mr. Hyder is a Principal with Hawksley Consulting assisting public sector clients with the financial and managerial aspects of environmental infrastructure. He has 18 years of professional consulting experience working with clients all over the United States. He specializes in cost of service and the pricing of municipal services including stormwater, water, sewer and sanitation services. He has a Bachelor's in Civil Environmental Engineering and an MBA.

Jack Kartez, jackk@maine.edu

Professor Emeritus of Community Planning and Development, Muskie School of Public Service

Professor Emeritus of Community Planning and Development in the Muskie School of Public Service Jack Kartez came to USM as implementing director of the new undergraduate Environmental Science and Policy program in 1995 and was a founding faculty of Texas A&M's Hazard Center from 1990-1994. He's served as the University of Southern Maine's first associate vice-president for research, scholarship and creative activity. Dr. Kartez is Senior Advisor in the New England Environmental Finance Center at the Muskie School and has served as its associate director and director. An experienced dispute resolution professional, he has trained over 1,000 New England public officials, staff and community leaders in consensus building skills and helped local and state agencies and non-profit groups with many forums and charrettes. He earned degrees at Middlebury College, the University of Oregon, and the University of North Carolina at Chapel Hill.

Steve Landry, Stephen.Landry@des.nh.gov

Nonpoint Source Program Coordinator, New Hampshire Department of Environmental Services, Watershed Assistance Section

Steve Landry is the New Hampshire Nonpoint Source Program Coordinator with the New Hampshire Department of Environmental Services Watershed Assistance Section. Steve works with the best nonpoint source professionals on the planet to protect and/or restore surface waters in New Hampshire by utilizing funding provided by Section 319 of the U.S. EPA Clean Water Act. When not at work, Steve can be found managing all of the nonpoint source pollution generated by his four cats.



Speaker Bios

Tamara Lee Pinard, tamara.pinard@tnc.org

Community Initiatives Manager, The Nature Conservancy, Maine Chapter

Tamara Lee Pinard is the Community Initiatives Manager for the Maine Chapter of The Nature Conservancy where she helps to design and lead projects that blend the needs of local communities with natural resource conservation. Tamara has 18 years of professional experience with watershed management, clean water education, and collaborative decision making. As the Stormwater Program Manager at the Cumberland County Soil and Water Conservation District, Tamara served as the facilitator of 14 municipalities with stormwater permitting requirements and the Executive Director of the Long Creek Watershed Management District, a public private partnership that she developed.

Nancy L. Martin, nancy.martin@maine.edu

Program Associate, New England Environmental Finance Center (NEEFC)

Nancy has been working with the NEEFC since July 2016, and is also an independent consultant focused on local capacity building and urban sustainability. Previously, Nancy spent nine years working with the US Agency for International Development (USAID) in Washington, DC, overseeing a portfolio that focused on urban adaptation to climate change, including a city partnership program. While there, she coordinated trainings for USAID and for international events like the World Urban Forum. Nancy received a B.A. from Tufts University, an M.S from Georgetown University, and a certificate in urban sustainability from the George Washington University.

Brenton McCloskey, brentmc@umd.edu

Research Associate, Environmental Finance Center at University of Maryland

Mr. McCloskey is a Research Associate with the Environmental Finance Center (EFC) at the University of Maryland. Over the past 11 years, he has strengthened and built upon experiences by working with local governments in the mid-Atlantic region, and throughout the U.S., to build and advance innovative financing programs to help offset the financial burden of implementing watershed-wide initiatives. Mr. McCloskey coordinates and implements the Center's Environmental Financing Boot Camps – trainings and workshops specifically designed for local governments and non-profits to advance their knowledge of environmental finance and sustainability issues. In addition, he co-leads the Center's Municipal Online Stormwater Training (MOST) Center - an online source for stormwater management training.

Barbara McMillan, Barbara.McMillan@des.nh.gov

Watershed Outreach Coordinator, New Hampshire Department of Environmental Services, Watershed Assistance Section

Barbara manages stormwater related outreach programs for the Watershed Assistance Section and provides outreach planning and technical assistance to Watershed Assistance grantees and NH Municipal Separate Storm Sewer System (MS4) municipalities. Barbara also promotes and manages NHDES Clean Water State Revolving Loan Fund stormwater projects and stormwater asset management projects.



Speaker Bios

Paul Niedzwiecki, pniedzwiecki@capecodcommission.org

Executive Director, Cape Cod Commission

Paul Niedzwiecki is Executive Director of the Cape Cod Commission, the region's land use planning and regulatory agency. Paul leads a staff of 40 talented professionals in a high performance driven organization whose mission is to "Keep a Special Place Special."

Rich Niles, Rich.Niles@amecfw.com

Water Resources Project Manager, Amec Foster Wheeler Environment and Infrastructure, Inc.

Rich Niles is a Water Resources Project Manager at Amec Foster Wheeler with over 16 years of experience providing consulting services to municipalities. He has worked with over thirty municipalities across New England to develop and implement stormwater management programs since the inception of the Small MS4 Permit. He specializes in stormwater financing and has been involved in numerous stormwater finance programs with over two dozen municipalities, including past and ongoing regional funding studies.

Jim Riordan, jriordan@essgroup.com

Principal Scientist, ESS Group

Jim Riordan, AICP, LEED AP is an environmental specialist with ESS Group, Inc. He coordinates the East Providence Office stormwater programs. Previously, Jim worked as project manager for nine years at Fuss & O'Neill and at the Rhode Island Department of Environmental Management (RIDEM) as an environmental planner and scientist. During his 12-year tenure at RIDEM, he coordinated the Rhode Island Nonpoint Source Pollution Management and Financial Assistance Programs, focusing on municipal onsite wastewater and stormwater management issues. In 2005, he received the EPA Environmental Merit Award for his work on smart growth and stormwater programs. In 2011 and 2014, he received the Rhode Island Chapter American Planning Association President's (APA) Award. He is currently the President-Elect of the APA Rhode Island Chapter and a member of the Rhode Island State Planning Council.

Robert Roseen, rroseen@waterstone-eng.com

Principal Owner, Waterstone Engineering

Dr. Robert Roseen has 20+ years of experience in the investigation, design, testing, and implementation of innovative approaches to stormwater management. Most recently, Rob led a project team which received an Environmental Merit Award for the development of an Integrated Plan focused on an economical approach for nutrient management for stormwater and wastewater in coastal NH which received provisional approval by EPA and would be one of the first in the nation. Rob directed the UNHSC for 10 years and is deeply versed in the practice, policy, and planning of stormwater management.



Speaker Bios

Josh Secunda, secunda.josh@epa.gov

Innovations and Sustainability Unit, Environmental Protection Agency, Region 1

Joshua Secunda currently works in EPA-New England's Innovations & Sustainability Unit. Previously, he was a Senior Enforcement Counsel with EPA Regions 1 and 3. He has also worked as a facilitator, mediator and instructor in multi-party environmental dispute resolution with EPA, the Harvard Program on Negotiation and the Consensus Building Institute. His published work includes "An Experiment in 21st Century Enforcement" in the National Environmental Enforcement Journal, and articles published in the UCLA Journal of Environmental Law & Policy. He also coauthored (with MIT's Professor Lawrence Susskind) "Environmental Dispute Resolution: The American Experience" (Clifford Chance, London). Joshua is a graduate of Boston College Law School, the Environmental Law Center at Vermont Law School, and Harvard University's John F. Kennedy School of Government.

Martha Sheils, martha.sheils@maine.edu

Director of the New England Environmental Finance Center (NEEFC)

Martha manages the development and implementation of all NEEFC program areas, and executes the long term vision of the Center. Martha's work focuses on training and technical assistance to communities on financing options related to stormwater and climate adaptation, resiliency planning, and food recovery and materials management. Prior to the NEEFC, she was a Project Manager at the Harvard Institute for International Development at the Harvard Kennedy School of Government for a USAID project to implement resource economics programs in drinking water, sustainable forestry, and carbon trading in Russia and Kazakhstan. She holds a BA in Economics from Rutgers University, and a Master of Environmental Management from Duke University's Nicholas School of the Environment.

Curt Spalding, spalding.curt@epa.gov

Administrator for EPA's New England Region (Region 1)

H. Curtis "Curt" Spalding has extensive experience in the environmental protection field as an advocate, policy analyst and administrator. For almost 20 years, he served as Executive Director of Save the Bay in Rhode Island, a nationally recognized, 20,000-member environmental advocacy and education organization. There, he helped build an advocacy and education program that helped restore the Bay and educates 15,000 children year. He also oversaw the construction of the Save the Bay Center at Fields Point in Providence, Rhode Island. Winning the Phoenix Award for development of the Save the Bay Center is a highlight of Curt's leadership tenure. But according to Curt, getting a Green Infrastructure project permitted on a brownfield back in 2003, may well be his greatest achievement. Since joining the EPA leadership team in February 2010, Spalding has been leading a holistic approach to finding environmental solutions in New England. He's emphasized efforts in community engagement, sustainability, environmental justice and green economy. Spalding has focused EPA's efforts in the region on three cross-cutting initiatives: climate change, stormwater and community prosperity. Spalding has been heavily engaged in resilience planning efforts for Climate Change in New England. He has also been involved in a number of pilot projects working on sustainability in communities around the region. Urban revitalization is a priority for Spalding, and you can see it coming to fruition in places like Holyoke, MA and Bridgeport, CT. Spalding received his bachelor's degree from Hobart College and an M.P.A. from SUNY at Albany in Albany, NY.



Speaker Bios

Ed Suslovic, edsuslovic@portlandmaine.gov

City Councilor, Portland Maine

Ed Suslovic is a Portland City Councilor who chaired the Stormwater Task Force that developed a financing plan for Stormwater and CSO infrastructure. Ed also served as Mayor and as a member of the state legislature. He is the President of the Greater Portland Transit District (METRO) and serves on the Executive Committees of both ecomaine and the Greater Portland Council of Governments (GPCOG).

Terisa Thomas, Terisa.Thomas@vermont.gov

CWSRF Project Manager, Vermont Department of Environmental Conservation

Terisa Thomas is the project manager for the Vermont CWSRF program. Prior to taking over the program in January of 2016, she managed other environmental programs in her native state of Iowa including NEPA for the Dept. of Transportation. She holds a Masters degree in public health from Des Moines University and an undergraduate in Environmental Health and Biology from Iowa Wesleyan College.

John True, John.N.TRUE@maine.gov

Environmental Engineering Services Manager, Maine Department of Environmental Protection

Mr. True is a licensed Maine Professional Engineer with a thirty-plus year career in wastewater at the Department of Environmental Protection. He is currently the Engineering Services Manager directing staff in the Combined Sewer Overflow Abatement Program, and the administration of federal and state grants and loans for wastewater infrastructure projects and non-point source projects; such as stormwater, landfill closures, sand/salt storage facilities, and agricultural and forestry best management practices.

David Wheeler, dwheeler@sburl.com

President, Horsley Witten Group

David Wheeler is the Assistant Stormwater Superintendent for the City of South Burlington, Vermont. Prior to working for Public Works, David worked for four years as an environmental engineer for Hoyle, Tanner & Associates' Burlington branch office. He graduated from the University of Vermont with a BS in Civil and Environmental Engineering in 2011.



About the Hosts

New England Environmental Finance Center

Founded in 2001, the New England Environmental Finance Center (NEEFC) seeks to advance the shared goal of US EPA and the Edmund S. Muskie School of Public Service at the University of Southern Maine to research, publish, and extend creative approaches to environmental policy, protection and management, especially the associated questions of how to pay for needed environmental improvements. NE/EFC strives to build capacity of public and private clients throughout New England to pay for the growing costs of protecting the environment and to be better prepared to manage both chronic acute problems of environmental protection and finance.



The Environmental Finance Center (EFC) at the University of Maryland

The Environmental Finance Center (EFC) at the University of Maryland is one of ten University-based centers across the country providing communities with the tools and information necessary to manage change for a healthy environment and an enhanced quality of life. EFC believes that environmental finance can be used to develop a shared community vision. Our focus is protecting natural resources and watersheds by strengthening the capacity of local decision-makers to analyze environmental problems, develop innovative and effective methods of financing environmental efforts and educate communities about the role of finance and economic development in the protection of the environment.



The Environmental Finance Center Network (EFCN)

The Environmental Finance Center Network (EFCN) is a university-based organization creating innovative solutions to the difficult how-to-pay issues of environmental protection and improvement. The EFCN works with the public and private sectors to promote sustainable environmental solutions while bolstering efforts to manage costs.



About the Hosts

The United States Environmental Protection Agency: Water Infrastructure and Resiliency Finance Center (WIRFC)

Mission of the Center: The Water Infrastructure and Resiliency Finance Center identifies financing approaches to help communities make better informed decisions for drinking water, wastewater, and stormwater infrastructure that are consistent with local needs.

Vision: Leader in financial expertise that provides guidance on financing the planning, design, and construction of sustainable and resilient water sector infrastructure.

Goals:

- The center seeks to accelerate and improve the quality of water infrastructure by promoting:
- Effective use of federal funding programs
- Leading edge financing solutions
- Innovative procurement and partnership strategies
- Collaborative financial guidance and technical assistance efforts
- Data and learning clearinghouses that support effective decision-making

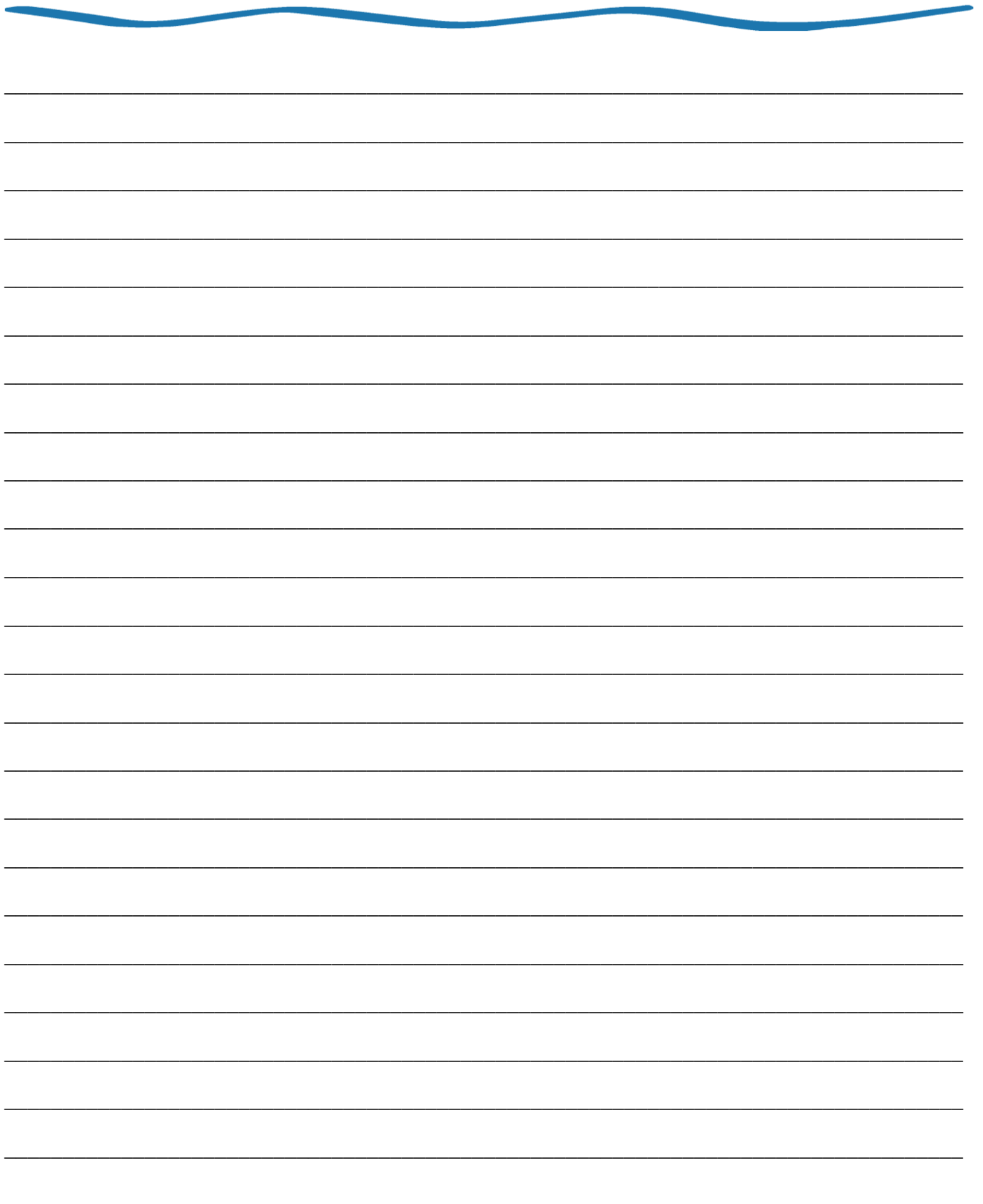


UNH Stormwater Center

The UNH Stormwater Center is a dynamic research, testing and educational facility which serves as a technical resource for water managers, planners, and design engineers in New England and throughout the United States. The UNH Stormwater Center is dedicated to the protection of water resources through effective stormwater management. The primary functions of the center are twofold: (i) Research and development of stormwater treatment systems, (ii) To provide resources to the stormwater management community currently challenged by the effective design and implementation of required stormwater management.



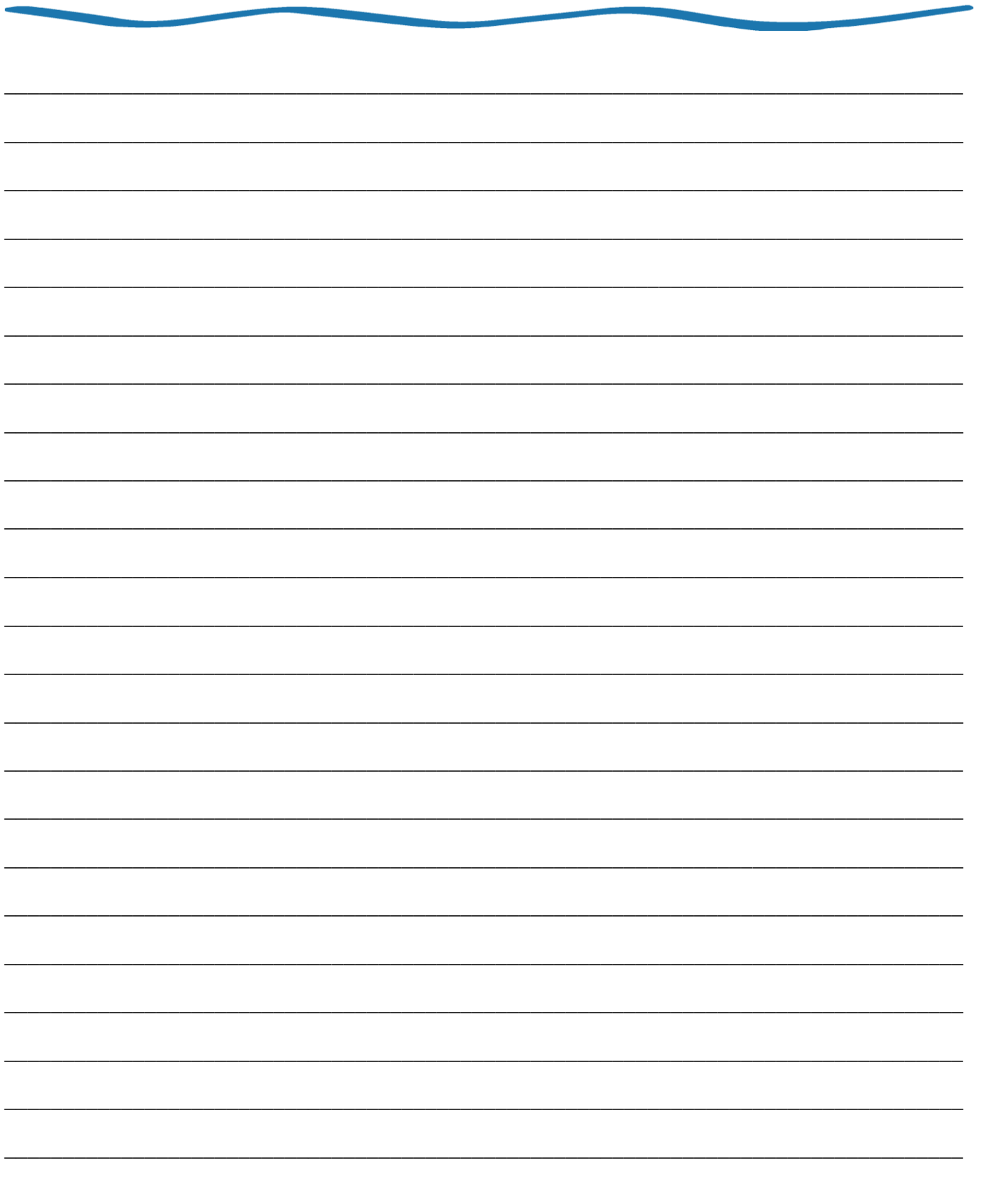
Notes



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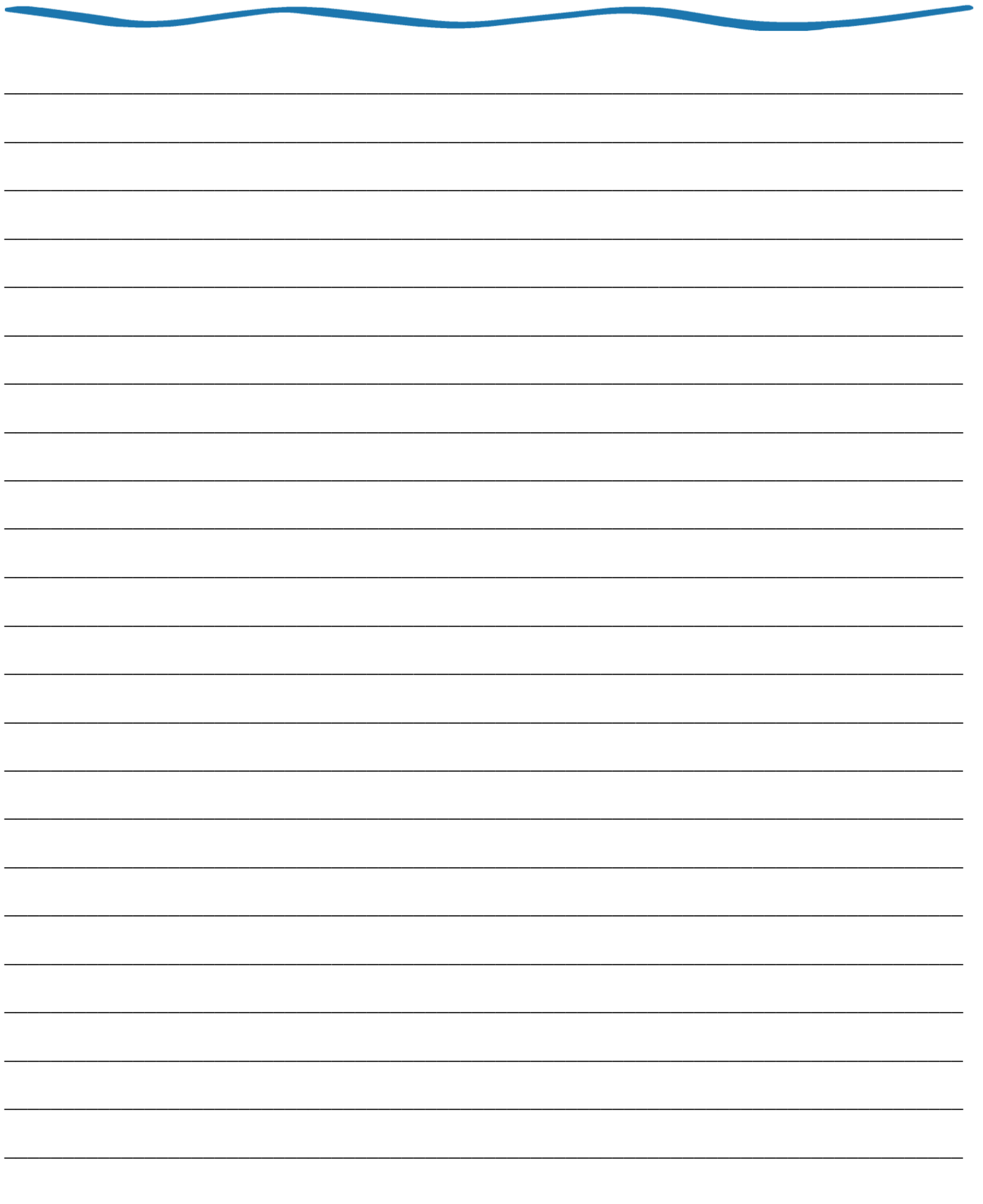
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