# Moving Towards Regional Consistency

EPA BMP Performance Curves

*Presented by*
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January 23, 2024

# Acknowledgements

The SNEP Network is a **collaborative network of partners** that provide **FREE technical assistance** to communities to address their stormwater management, financing, water quality and habitat restoration, green infrastructure, low impact development, and watershed-scale conservation and restoration needs.



The SNEP Network is a project of the New England Environmental Finance Center and is funded by the U.S. Environmental Protection Agency's Southeast New England Program.
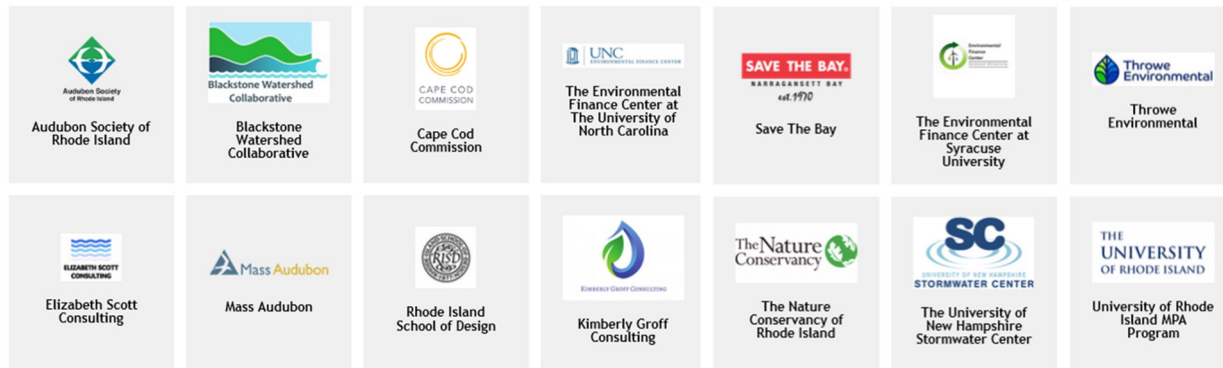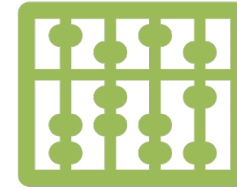
# Moving Towards Regional Consistency Context

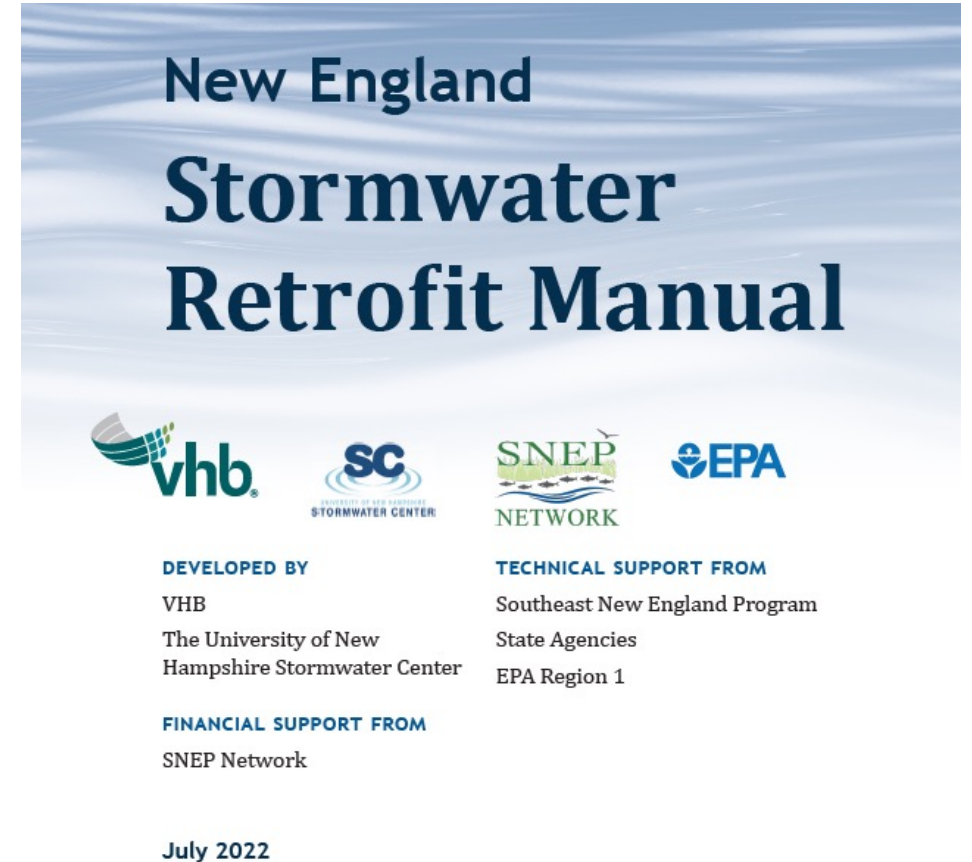Stormwater          Water Quality          Accounting

# Why do we need Regional Consistency?
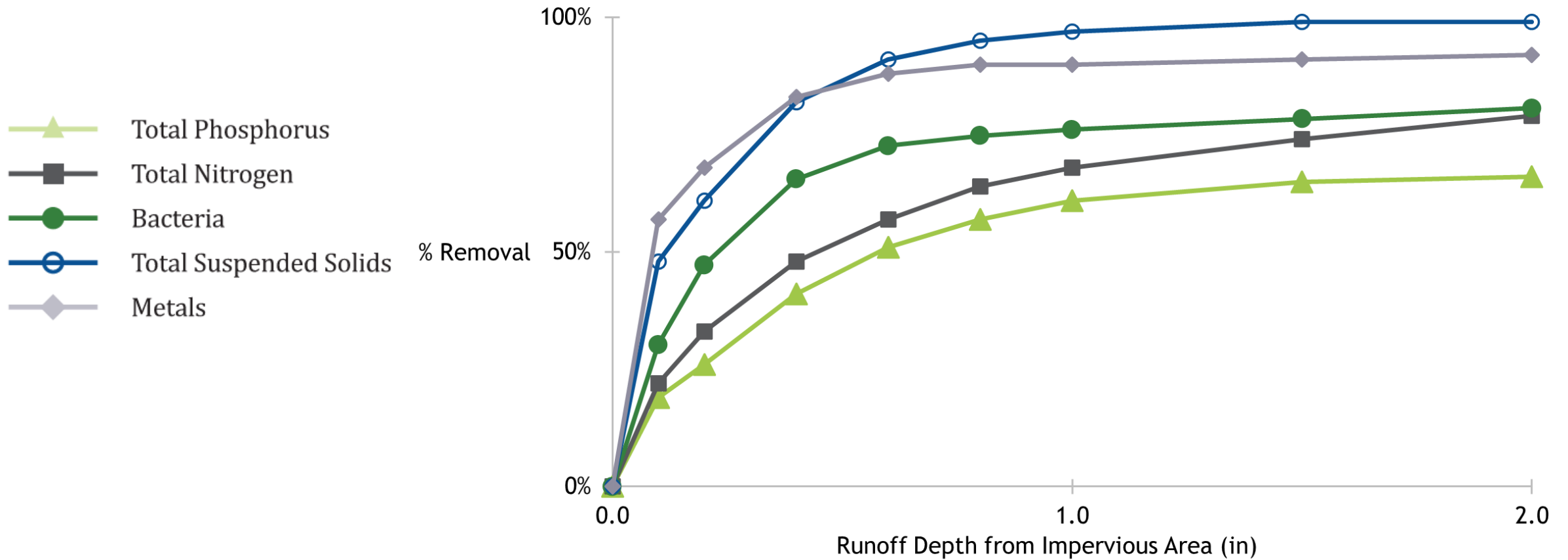
**Credits**: the quantification of benefits

## Credits via the Performance Curves can be used by:

≈ Planners to compare and prioritize

≈ Designers for evaluation, sizing, and optimization

≈ Project funders to confirm their investment is worthwhile

≈ Permittees to demonstrate progress and determine when they have met their regulatory (e.g., total maximum daily load (TMDL)) obligations

≈ Regulators to measure whether requirements are being met

## New England
# Stormwater Retrofit Manual

vhb. SC STORMWATER CENTER SNEP NETWORK EPA

**DEVELOPED BY**
VHB
The University of New Hampshire Stormwater Center

**TECHNICAL SUPPORT FROM**
Southeast New England Program
State Agencies
EPA Region 1

**FINANCIAL SUPPORT FROM**
SNEP Network

July 2022

# SCM Performance Curves



Gravel Wetland

Total Phosphorus
Total Nitrogen
Bacteria
Total Suspended Solids
Metals

% Removal

100%

50%

0%

0.0          1.0          2.0

Runoff Depth from Impervious Area (in)

New England Stormwater Retrofit Manual

ME DEP Ch 500 Update

VT MS4/TS4 and Municipal Roads

MassDEP's Stormwater Handbook (draft)

CT DEEP Stormwater Quality Manual

MA and NH

NH Stormwater Manual

NH Great Bay Nitrogen GP

MassDOT's Impaired Wa...

RIDEM MS4 update

RIDOT's Stormwater Control Plans

ME

VT

NH

MA

CT

RI

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# Tools

| Tool | Description | Source |
|------|-------------|--------|
| **Stormwater Management Optimization Tool (Opti-Tool)** | Provides output information to be used in cost-benefit analysis for constructing stormwater management plans at both the watershed and site-specific level | Environmental Protection Agency (EPA), 2016 www.epa.gov/tmdl/opti-tool-epa-region-1s-stormwater-management-optimization-tool |
| **Best Management Practice Accounting and Tracking Tool (BATT)** | Provides accounting, tracking, and reporting for pollutant load reduction from stormwater best management practices (BMPs) and non-point source controls | EPA, 2021 www.epa.gov/npdes-permits/stormwater-tools-new-england |
| **New Hampshire Department of Environmental Services (NHDES) Pollutant Tracking and Accounting Project (PTAP)** | Provides a general database of tracking and accounting systems for pollutant load reduction in the Great Bay estuary region (NH) to be used to encourage regional consistency | University of New Hampshire (UNH) https://www.unh.edu/unhsc/ptapp |
| **Rhode Island Department of Transportation (RIDOT) Stormwater Control Plan Calculator** | Provides pollutant load reduction estimates for various SCM types to be used for stormwater management plans at the watershed level | RIDOT, 2019 www.dot.ri.gov/about/stormwater.php |
| **Massachusetts Department of Transportation (MassDOT) Water Quality Data Form (WQDF)** | Provides pollutant load reduction estimates for various SCM types to be used at the site-specific level | MassDOT, 2022 www.mass.gov/lists/forms-documents-massdot-environmental-services#stormwater-management |
| **UNH Stormwater Center (UNHSC) Calculator** | Aids in selection, design, and planning level performance and cost assessment of SCMs | UNHSC 2022 www.unh.edu/unhsc/ms4-resources |

# Why is this important?

- Flexible, simple, accountable and consistent supports implementation
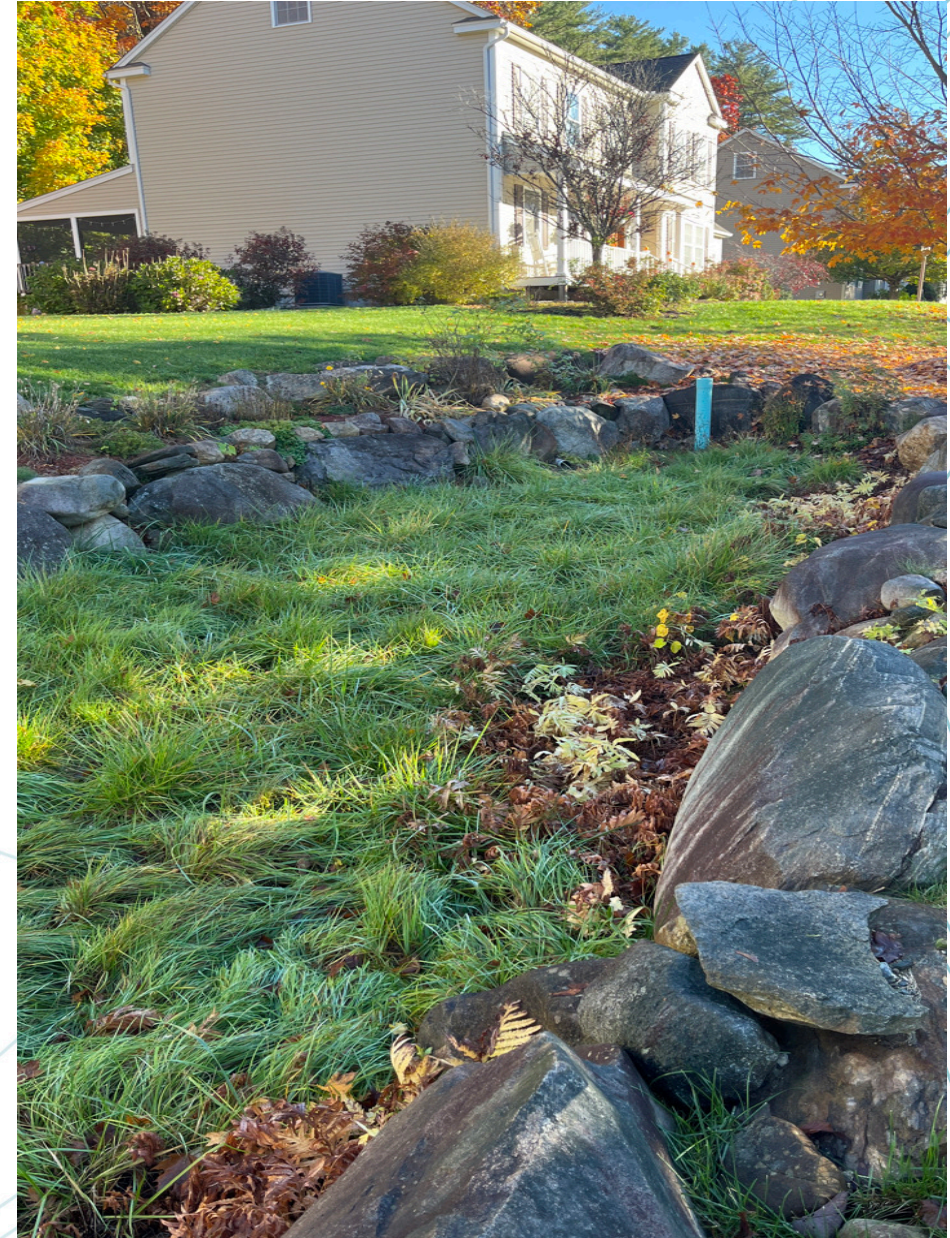
Thank you!

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