

Downpours and Drought: Managing for Extremes



Your land. Your water. Your solution.

Barbara McMillan & Lisa Loosigan,
NH Department of Environmental Services



Two Issues

POLLUTANT
TRANSPORT



EXCESS
RUNOFF



Why does it matter?

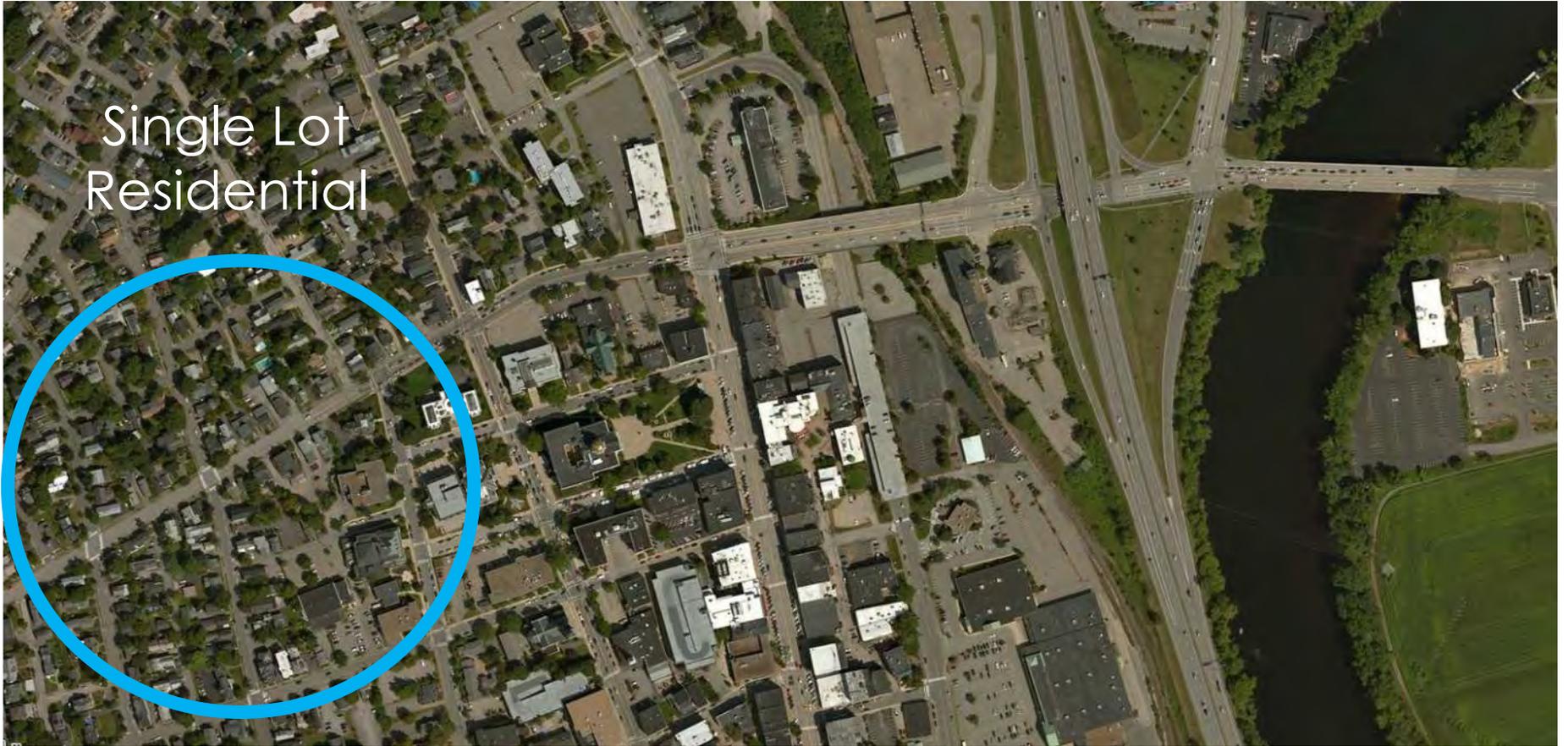
Stormwater runoff
causes or contributes to over
?
of NH's water pollution problems.



Managing Sources



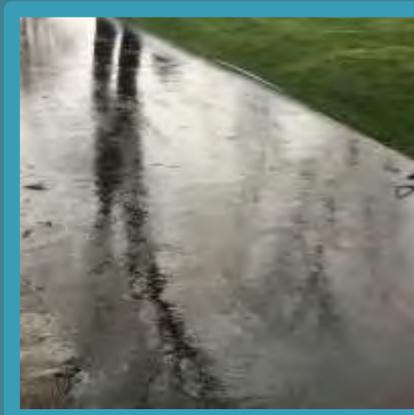
Single Lot
Residential



Opportunities

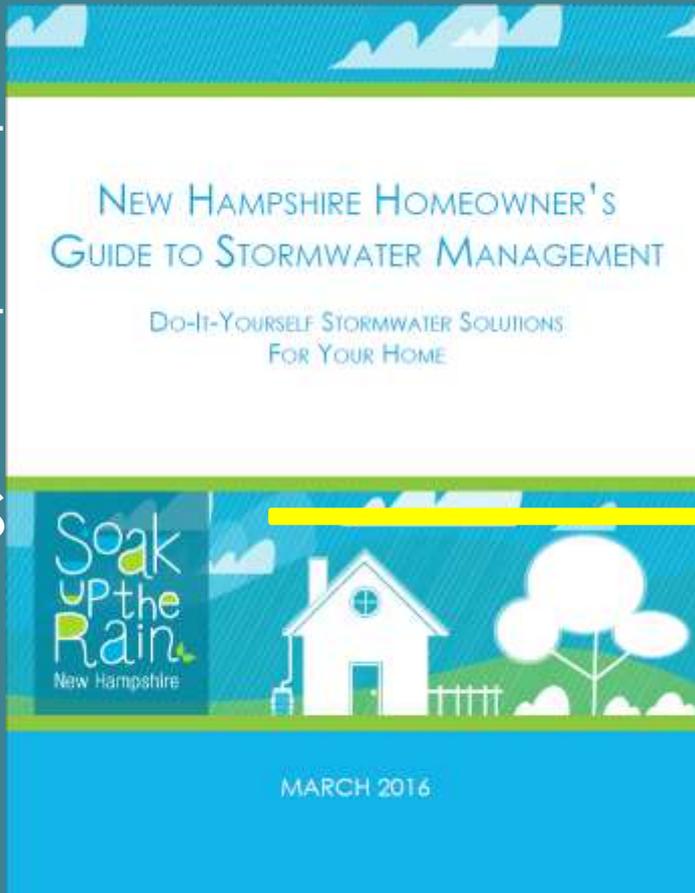


Residential Stormwater

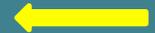
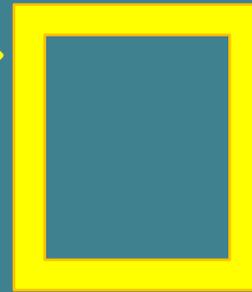


NH Homeowner's Guide

T
1
T
S



ns

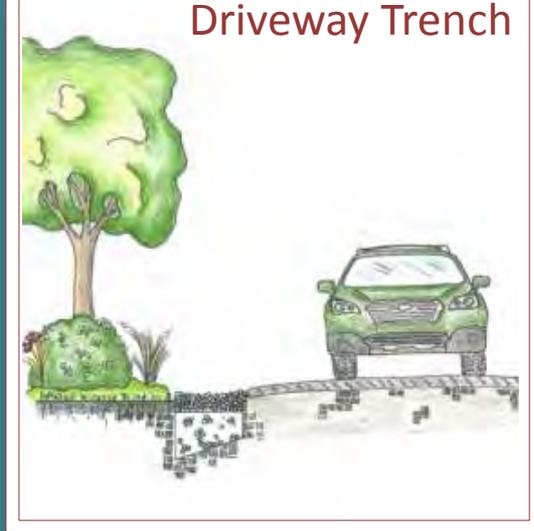


Holes & Stone

Rain Garden



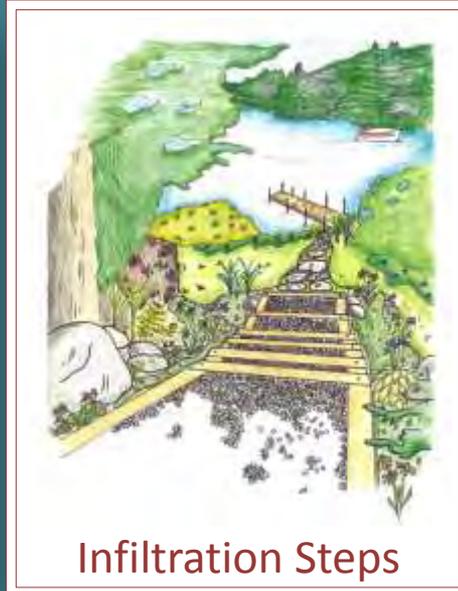
Dripline
Trench



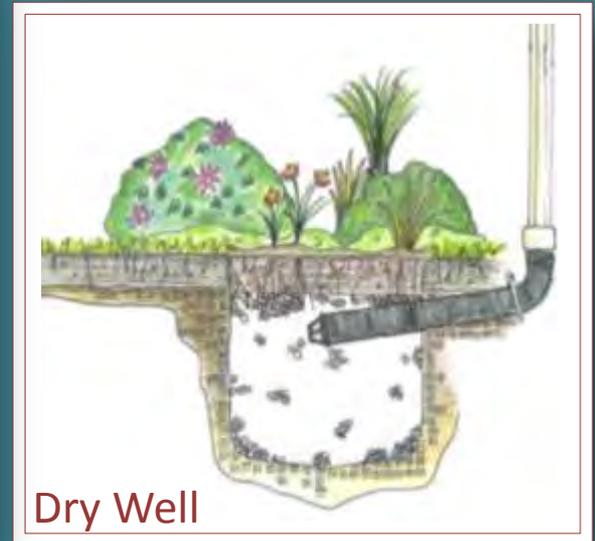
Driveway Trench



Pavers



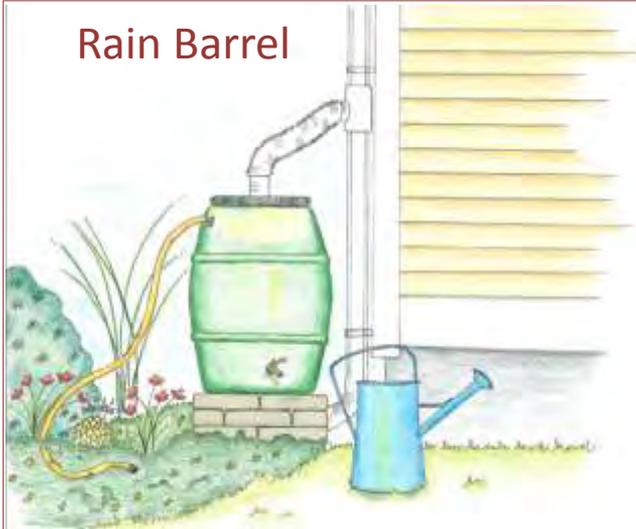
Infiltration Steps



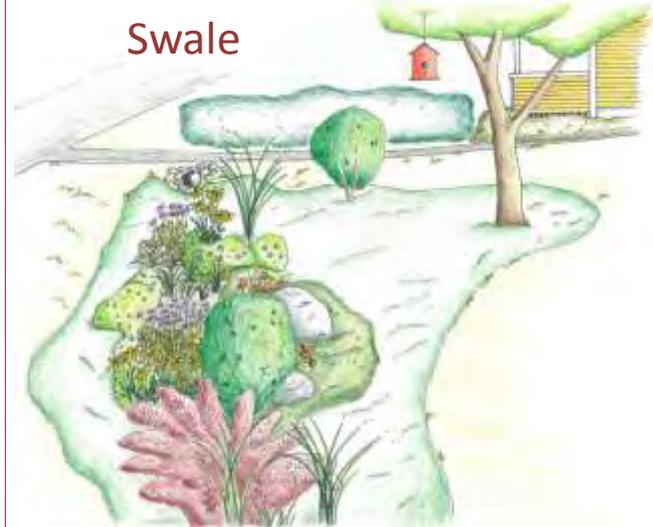
Dry Well

Collect & Direct

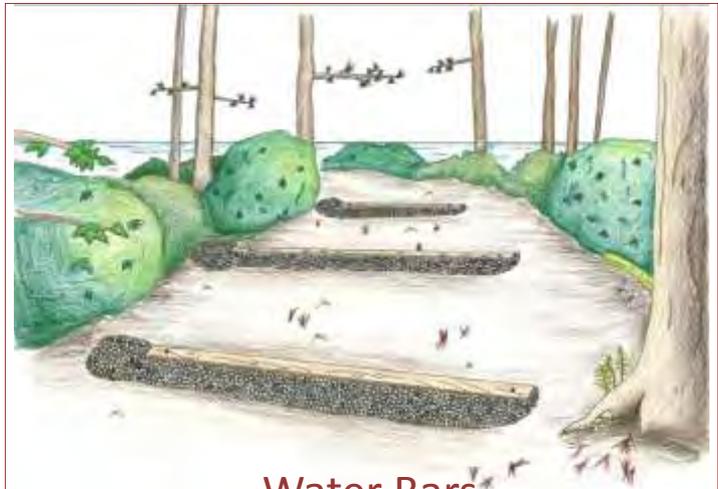
Rain Barrel



Swale



Vegetated Buffer

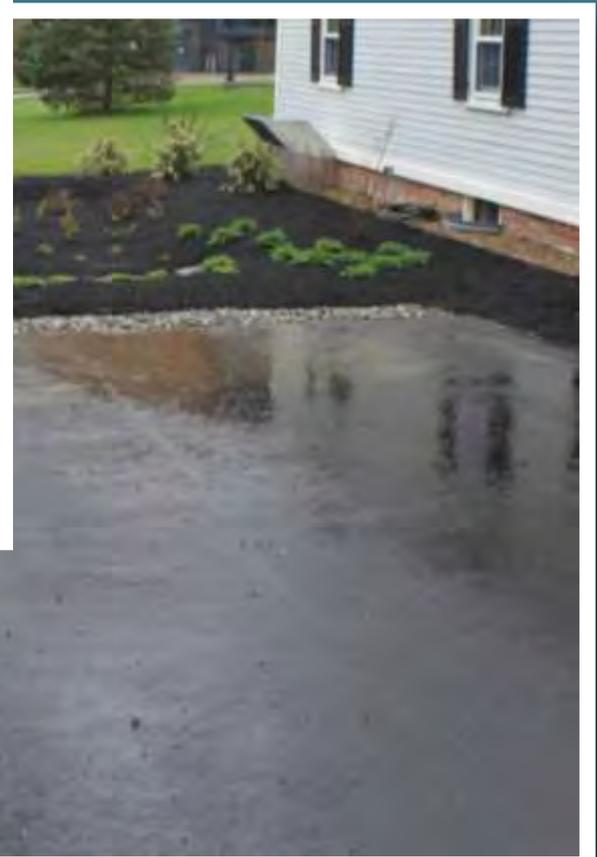


Water Bars

Rain Garden



Driveway Infiltration Trench



Rain Barrel



Results



LOAD REDUCTION

NEW HAMPSHIRE RESIDENTIAL LOADING REPORT

Created September 28, 2016

Adapted from the spreadsheet model available from NH Department of Environmental Services

Unknown watershed

42.8 in. annual rainfall

Site Conditions

Forest (sq ft)

Existing

Planned

0

0

RESOURCES

2. Enter

What's your

- DIY: Pervious Walkways & Patios
- DIY: Rain Barrel
- DIY: Rain Garden
- DIY: Vegetated Swale
- DIY: Water Bar

2.8 inches

TSS Reduction

TP Reduction (lbs/year)

TN Footprint (lbs/year)

0.26

0.26

vale

SW Treatment - PLANNED Runoff

Runoff Reduction (Cubic feet/year)

TSS Reduction (lbs/year)

TP Reduction (lbs/year)

Impervious
Roof

awn

Roof

Other

TOTAL

2215

0

2215

0.00

2.96

0.00

2.96

0.00

0.01

0.00

0.01

DIY: Rain

817

0

0.17

0.00

0.17

SET ONE TOTAL TP

SET ONE TOTAL TN

TN Reduction (lbs/year)

Summary of SW Treatments Applied

Existing

Planned

DIY: Rain Garden

x

Program Goal

Residential stormwater management becomes as commonplace as recycling



Soak
up the rain NH

Soak
UP the
Rain.
New Hampshire

Partnerships

Everything in
Between

Full Scale
Assessment
& BMP
Installation
Program

Outreach &
Education
Only



Web Presence

Home About SOAK Projects Resources Landscapers Contact Us

search

Resources

DIY Fact Sheets

Publications

Rain Garden Planning

 Like us on Facebook

SOAK
RESOURCES
New

Your L

Join us

Throughout
barrels, pla
and restore
this site to



olut

n garde
Up the F
d estua

We're SOAKing up Pollution

We're soaking up runoff everywhere. See how much water pollution SOAK projects have prevented.

Goal: Soak up 550,000 gallons of stormwater by the end of 2016!
(or about 14 in-ground swimming pools)

550k

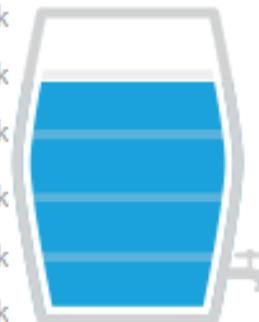
525k

500k

475k

450k

425k



SOAKed to Date:

Runoff: 517,599 gals

Sediment: 12,105 lbs

Phosphorus: 5.01 lbs

Nitrogen: 11.51 lbs

You can help us reach our goal. [See How.](#)

Web Presence

facebook

Email or Phone

Password

Log In

Forgot your password?



Soak NH

@SoakNH

Home

About

Photos

Reviews

Likes

Videos

Posts

Create a Page

Soak NH added 6 new photos to the album: Camp Cody Rubber Razors — in Freedom, New Hampshire.

August 23 · 🌐

Installed 08/16/2016



Like Comment Share

DES.NH.GOV



Contact Us

Government Organization - Concord, New Hampshire

5.0 ★★★★★ Open Now

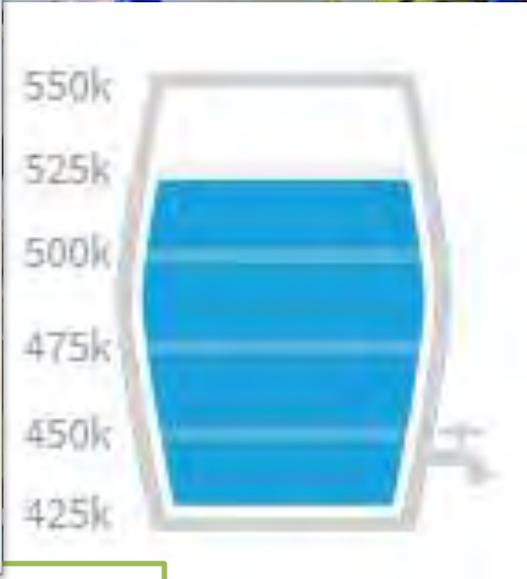
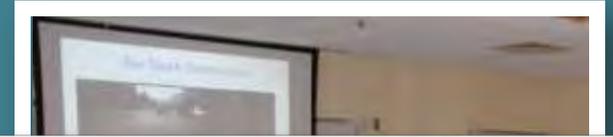
Search for posts on this Page

PEOPLE



Partner Benefits

- Classroom and field training
- Project design and results
- Installations



YOU can use any of the resources at www.soaknh.org.

Homeowner Role

- Provide the sites
- Cost share
- Complete maintenance
- **Ambassadors**



SOAK Projects



SOAK Projects



SOAK Projects



Soak Strategies



Questions or Comments?

Have questions?
Want to get involved?

Lisa Loosigian & Barbara McMillan, NHDES
Watershed Assistance Section

lialoosigian@des.nh.gov 603-419-0322
barbara.mcmillan@des.nh.gov 603-271-7889