

Your land. Your water. Your solution.

Managing Rainwater at Home Rain Barrels and more!

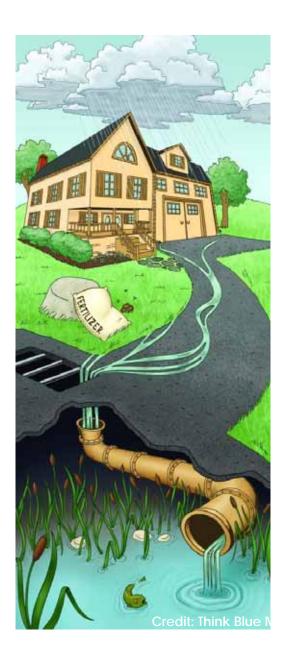




- ➤ Stormwater 101
- ➤ Soak Up the Rain NH
- ➤ Rain Barrels and so much more!





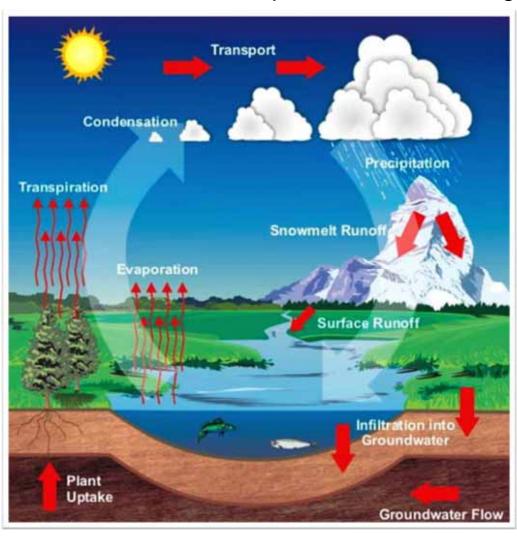


What is rainwater runoff (a.k.a. stormwater runoff)?

Water from rain or melting snow that doesn't soak into the ground.

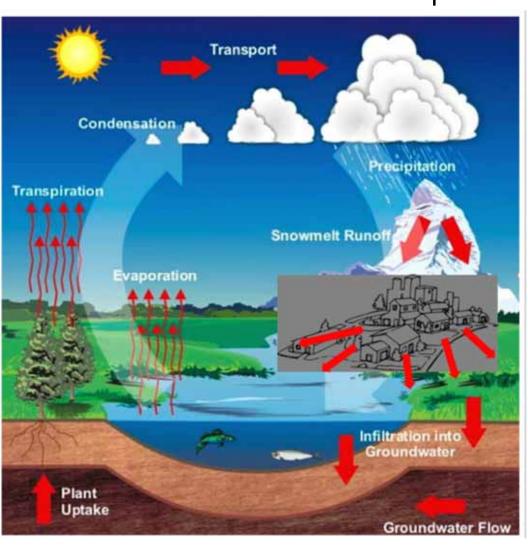


Natural vs Interrupted Water Cycle





Natural vs Interrupted Water Cycle



INCREASED HARD/IMPERVIOUS SURFACES



- Excess Rainwater Runoff
- Reduced ground water recharge
- Decreased Drought Resistance



Undeveloped Area





Highly Developed Area





Sources of Residential Runoff





Residential Pollutant Examples

Nutrients

Sediment

Bacteria















Why do we care about stormwater runoff?

Stormwater runoff carries pollutants to our waterbodies!



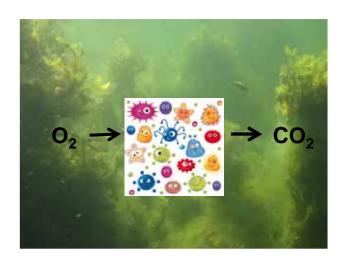


Nutrients













Follow the Flow

Runoff to collection system



Eroded path





Follow the Flow

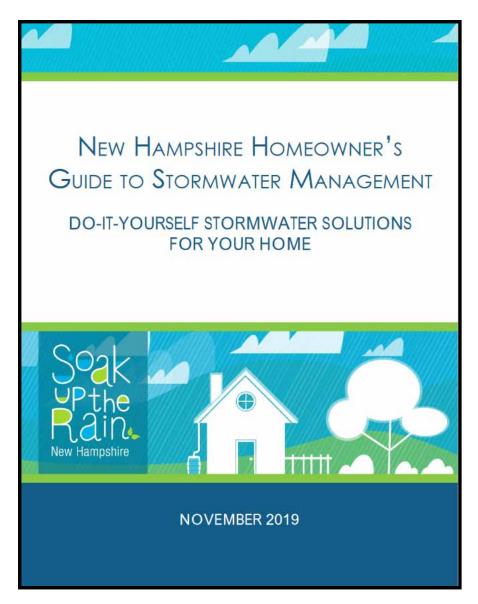


Bare soil

Unstable soil





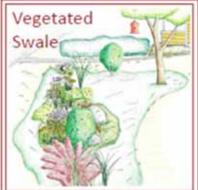


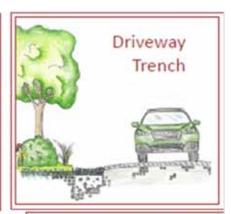
Search for: Soak Up the Rain NH

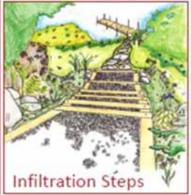
Go to: Publications





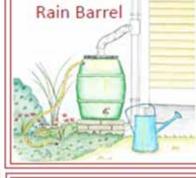


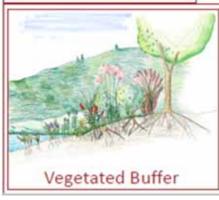


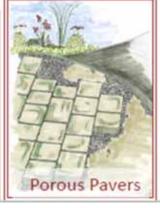


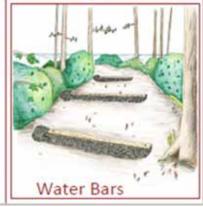
How can you SOAK UP the RAIN?

Find Do-It-Yourself Instructions and more at www.soaknh.org







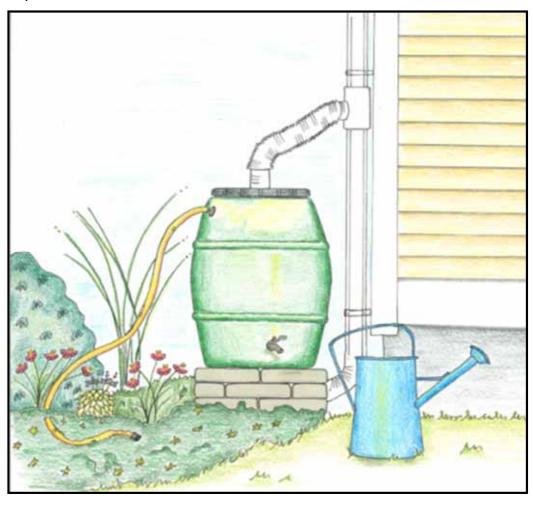






Rain Barrel

Captures and stores rainwater from a roof for later use.





Rain Barrels: Split gutters to both corners to increase capacity





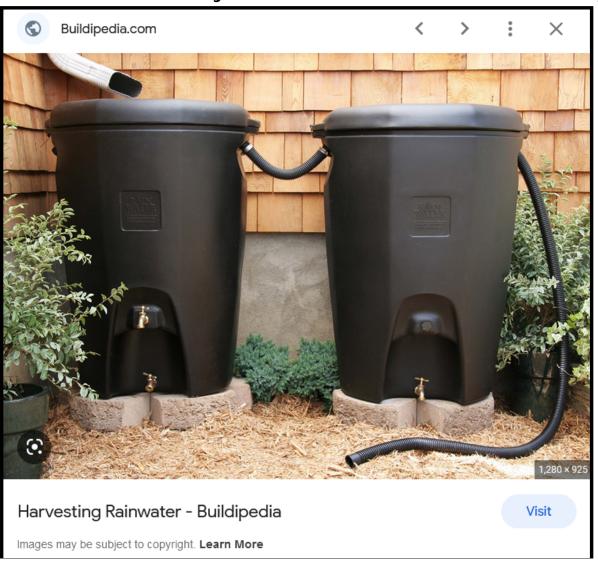
Rain Barrels: Split gutters to both corners to increase capacity







Rain Barrels: "daisy chain" two or more to increase capacity



Rain Barrels: connecting to downspout









Rain Barrels: Notes and Maintenance

- ✓ Plan for overflow
- ✓ Mosquito control
 - ✓ Screened opening
 - ✓ Mosquito tabs
- ✓ Monitor for algae growth
 - ✓ Treat with a bit of bleach
 - ✓ Empty between storms
- √ Scrub at end of season, if needed
- ✓ Empty and store for winter
 - ✓ Empty it out so water doesn't freeze and damage barrel!





Good Ideas Impressions Capri

43 ***** 29

SNI 27 being typical

\$109.98

50 Gaton Rain Saver - Sandstone

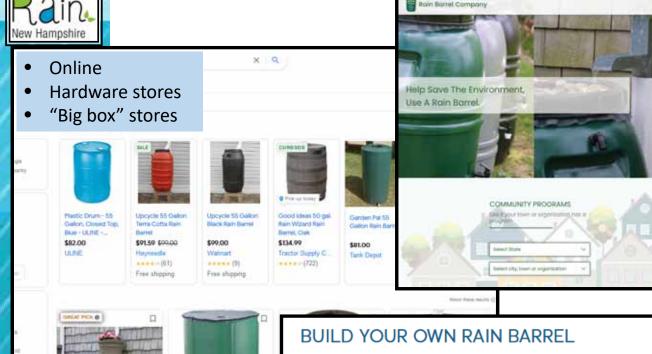
Winado 50 gal, Green Rainwater

Barrel

\$31,94

Home Depth

Rain Barrels: Where to purchase



Pre-made rain barrels are available in many sizes and styles. They range in price from \$50 to over \$200. To save money, you can make your own rain barrel out of a food-grade drum and plumbing parts that you can find at most hardware stores. An internet search of "How do I make a rain barrel" will result in a long list of how-to sites and videos, such as the Rainwater Harvesting: Rain Barrel DIY video on Instructables. com. Whatever instructions you follow, we recommend using a food-grade drum and avoiding trash barrels, which may not be sturdy enough to stand up to the pressure of being full of water.

ABOUT COMMUNITY PROGRAMS

was to be and an info@greatomericannalnbarret.com

Great American Rain Barrel

Company Community

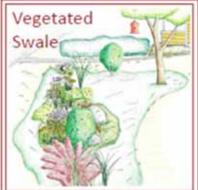
Programs

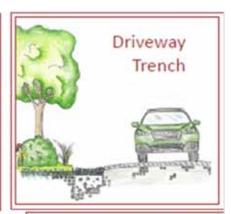
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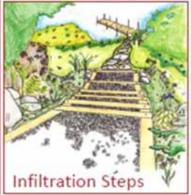
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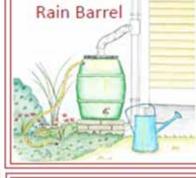


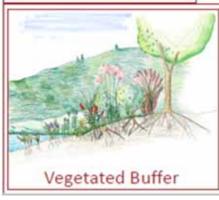


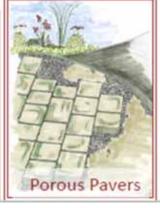


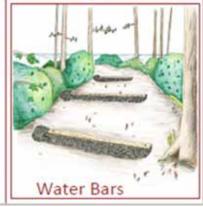
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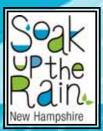












Rain Garden

A sunken, flat-bottomed garden designed to capture rainwater

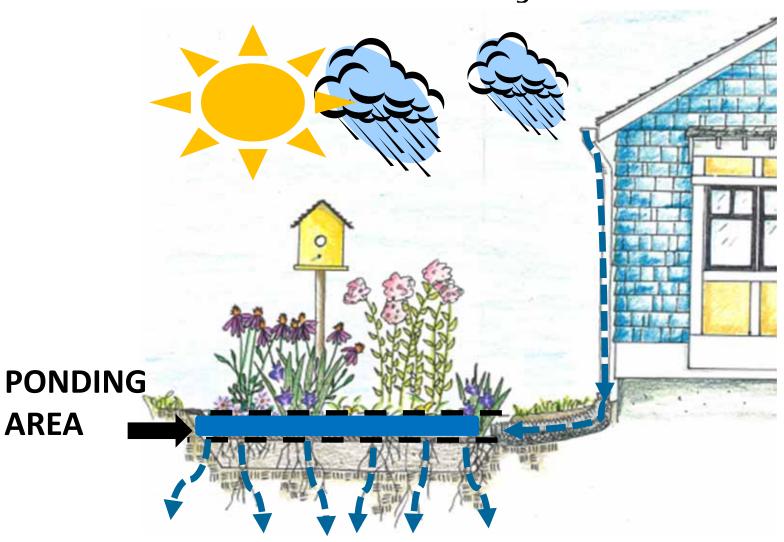






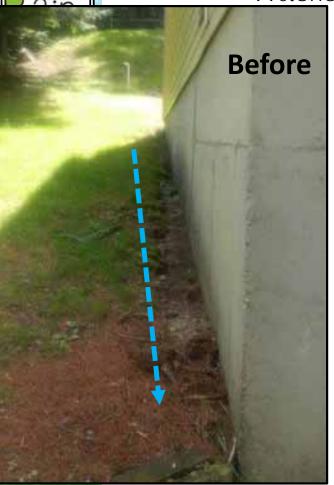
AREA

Rain Garden - Key Feature



Dripline Infiltration Trench

A stone-filled trench around the perimeter of a building





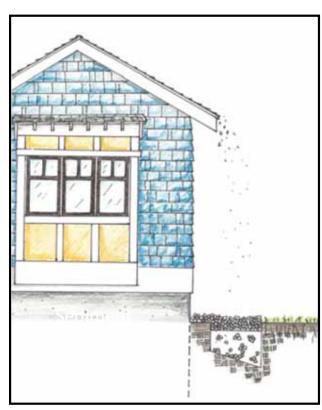
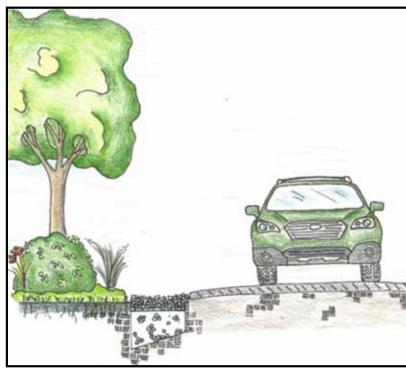


Photo Courtesy Nippo Lake Association, Barrington

Driveway Infiltration Trench

A stone-filled trench along the edge of a driveway.

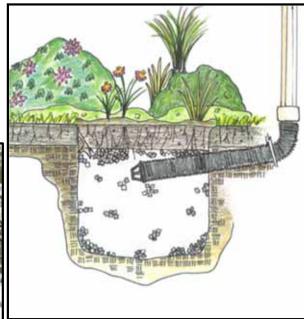




Dry Well

Classic hole in the ground filled with stone.







Dry Well
Classic hole in the ground filled with stone.





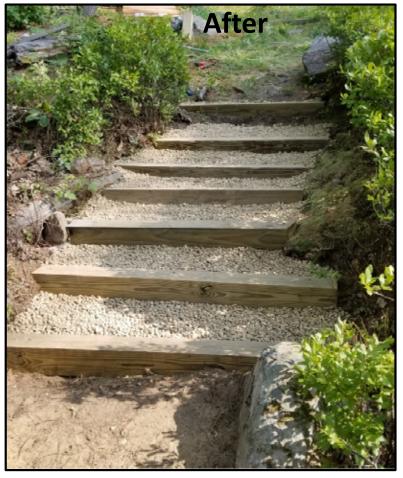
Project Partner: Green Mountain Conservation Group

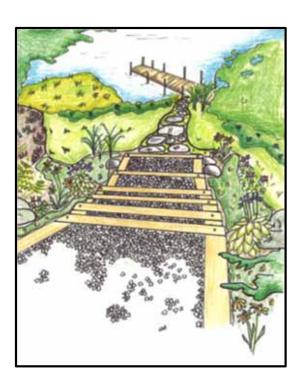
Infiltration Steps

Stabilize sloped paths, reduces erosion.



Project partner: Friends of Hothole Pond, Loudon





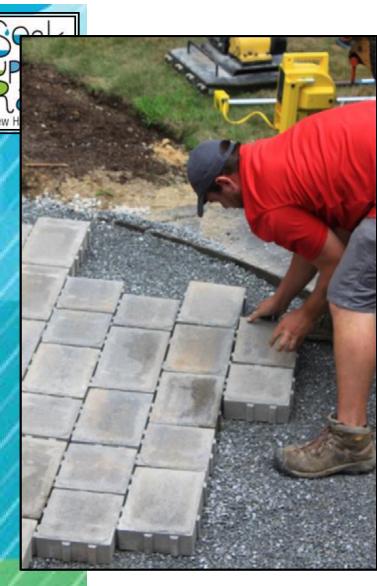


Infiltration Steps

Stabilize sloped paths, reduces erosion.







Porous Pavers

Stone reservoirs under pavers.



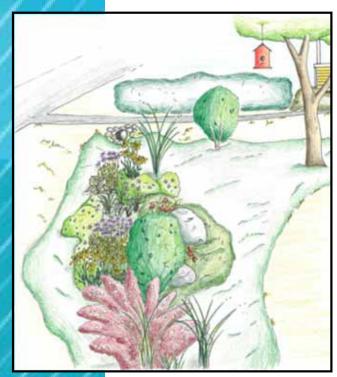


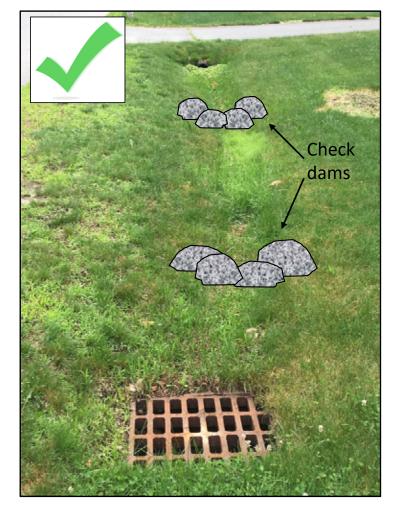


AKA geo grids or grass pavers, etc.



Vegetated Swale A shallow channel filled with plants to slow flow





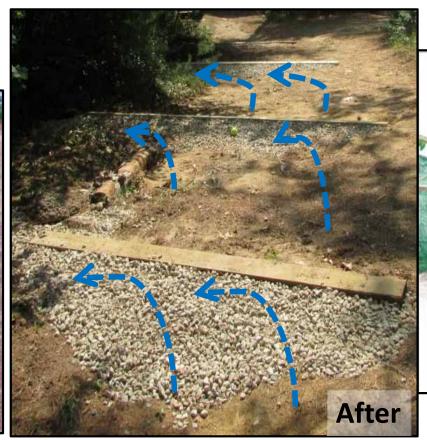




Water Bar

Intercepts and diverts water traveling down paths.







Project partner: Green Mountain Conservation Group, Freedom



Water Bar - Rubber Razor

Conveyer belt material sandwiched between lumber and protruding above grade



Project partner: Nippo Lake Association, Barrington





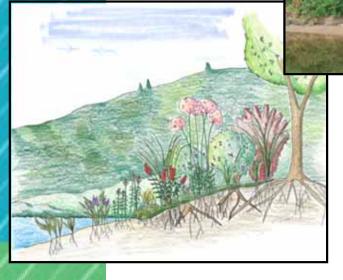


Vegetated Buffer Vegetation between landscaped area and water



Planted Buffer Wentworth Lake, Wolfeboro





Good Housekeeping Tips







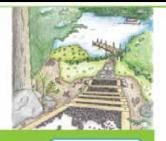




Step-by-step instructions

INFILTRATION STEPS

Infiltration steps slow down and infiltrate runoff on moderate slopes to reduce erosion and define walking paths. They are well-suited for shorefront properties.



EQUIPMENT &

MATERIALS

Measuring tape

Sledge hammer

4 Wooden stakes String or spray point

1/," crushed stone or

Shovel

pea stone

Non-woven

geotextle fabric

6" x 6" pressure

treated timbers (or

such as granite or

logs 18" long pieces of

1," diameter steel

Power drill with 1/," rick lists

12" galvanized spikes

rebar

Level

similar sized material

SIZING AND DESIGN

Measure the slope. Measure the overall rise and run of the area in inches (Figure 1)

Determine the number of steps needed. Divide the rise of the slope (measured in Step 1) by the height of the timber (6" unless you are using different sized timbers) and round to the nearest whole number. This is the number of steps you will need.

RISE + TIMBER HEIGHT = NUMBER OF STEPS

STEP 3. Determine step depth (kead). Divide the run of the slope by the number of steps (figured in Step 2). The depth of the step tread is flexible, but should be at least 15" to be comfortable to walk up and down.

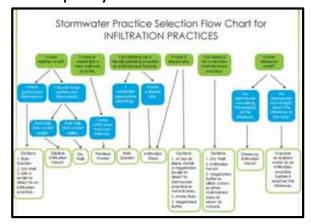
BUN & NUMBER OF STEPS + DEPTH OF STEP TREAD

STEP 4. Determine the width of the steps. A comfortable width is usually 4 feet, but depending on the topography. trees, or other site conditions, a wider or narrower step



Photo galleries & stories

Property assessment tools



Rain garden planning

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	Labella cardinals Cardnat faver			٠	200		•	•	•	241	2"

Rain Garden. Partner: Great Bay Stewards



Infiltration Pad. Partner: Wentworth Watershed Assoc.

QUESTIONS?

www.soaknh.org

Facebook: SoakNH

Lisa Loosigian

lisa.loosigian@des.nh.gov







Dry Well. Partner: Great Bay Stewards



Infiltration Trench. Partner: Green Mtn Conservation Group