

PLEASE SILENCE YOUR PHONE

NHDES Land Resources Management

Shoreland Protection Act Review



Agenda:

Shoreland Protection Act Purpose

Minimum Standards

Pervious Surfaces

Shoreland Permitting Process

Erosion Controls

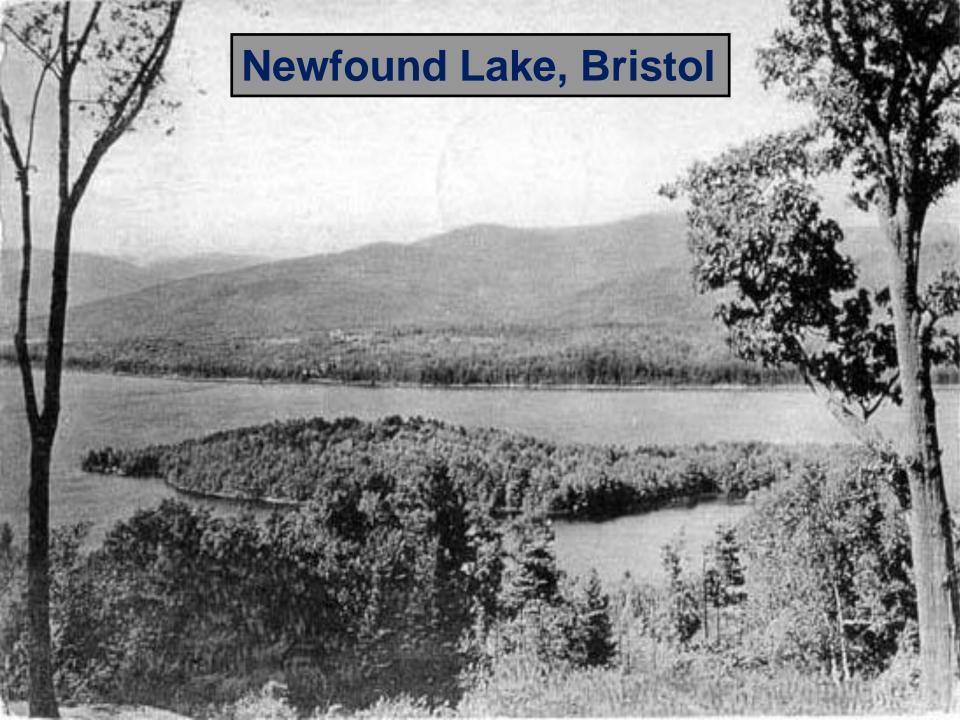
Wetlands Rules Update













19 Mile Bay, Lake Winnipesaukee









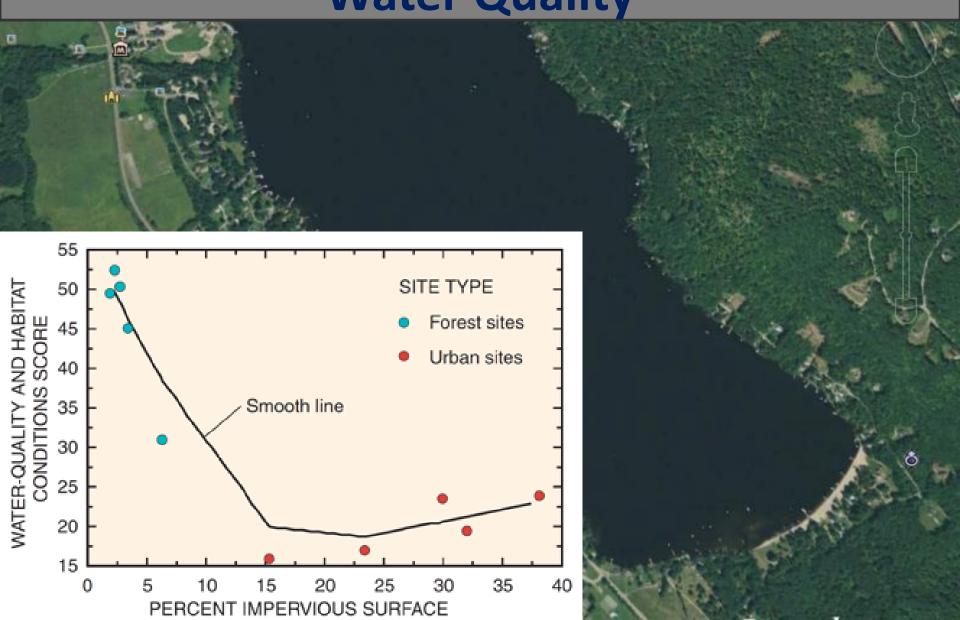








Impervious Area Negatively Impacts Water Quality







Impervious Area





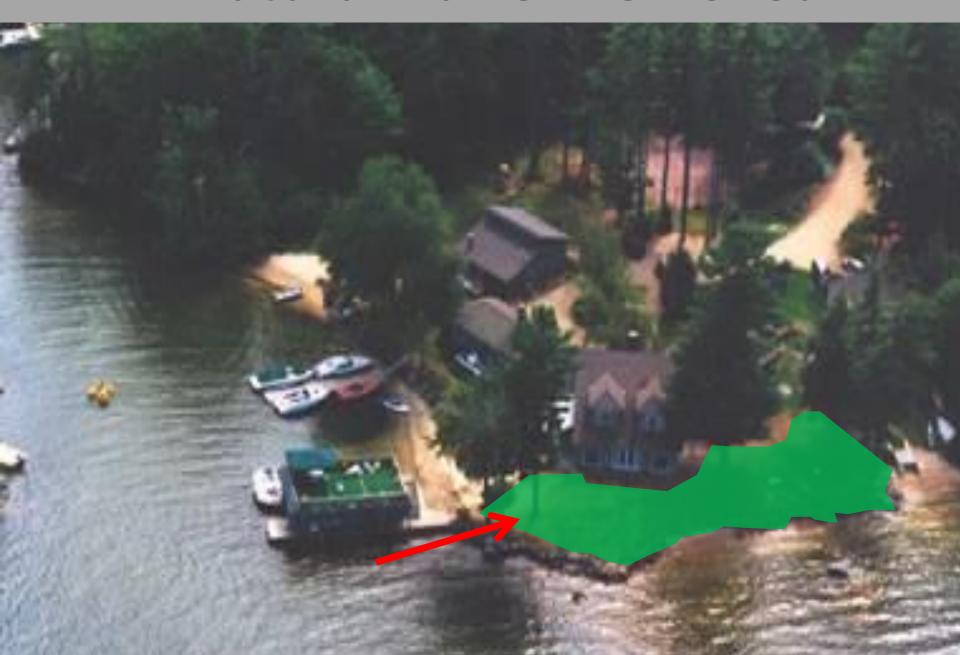


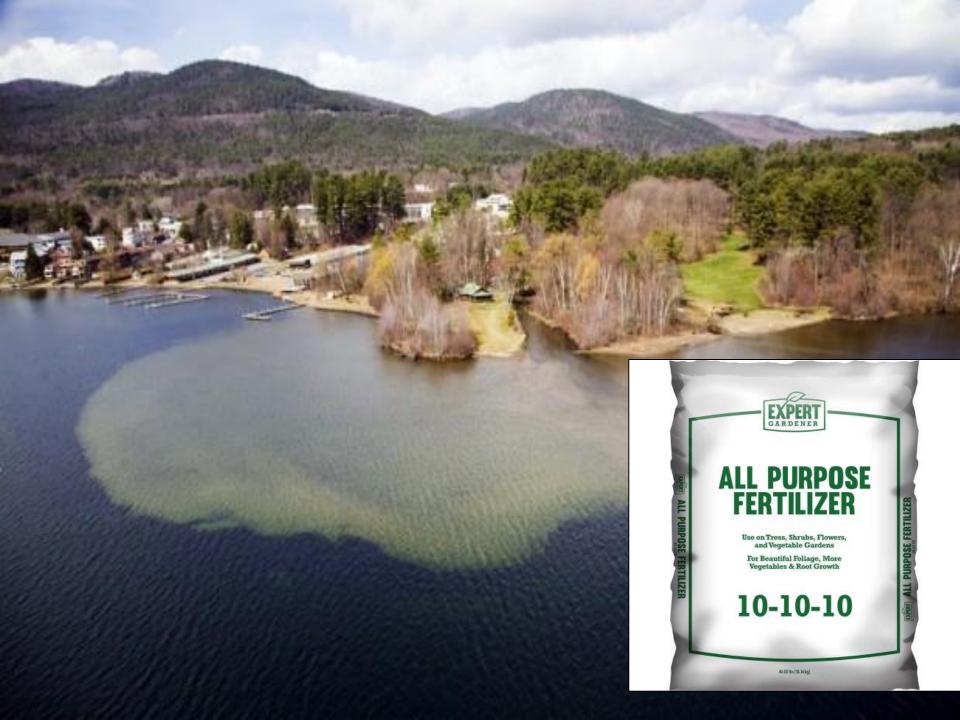


Flow Path of Stormwater



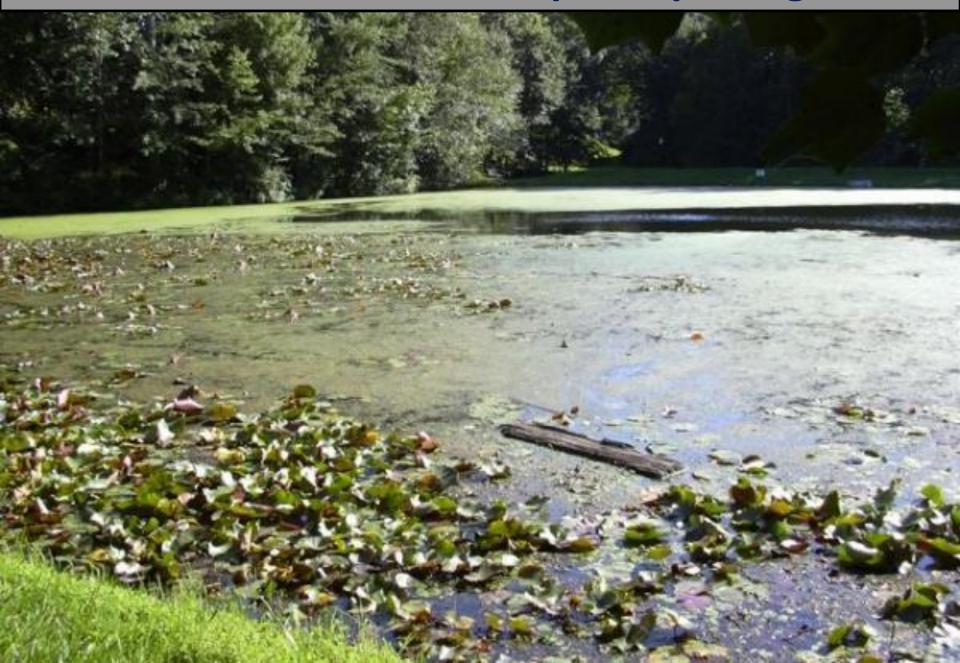
Natural Buffer Removed







Stormwater accelerates aquatic plant growth



increases the frequency of cyanobacteria algae blooms





Vegetated buffers help prevent invasive milfoil from establishing itself



Shade over the water inhibits milfoil from becoming established





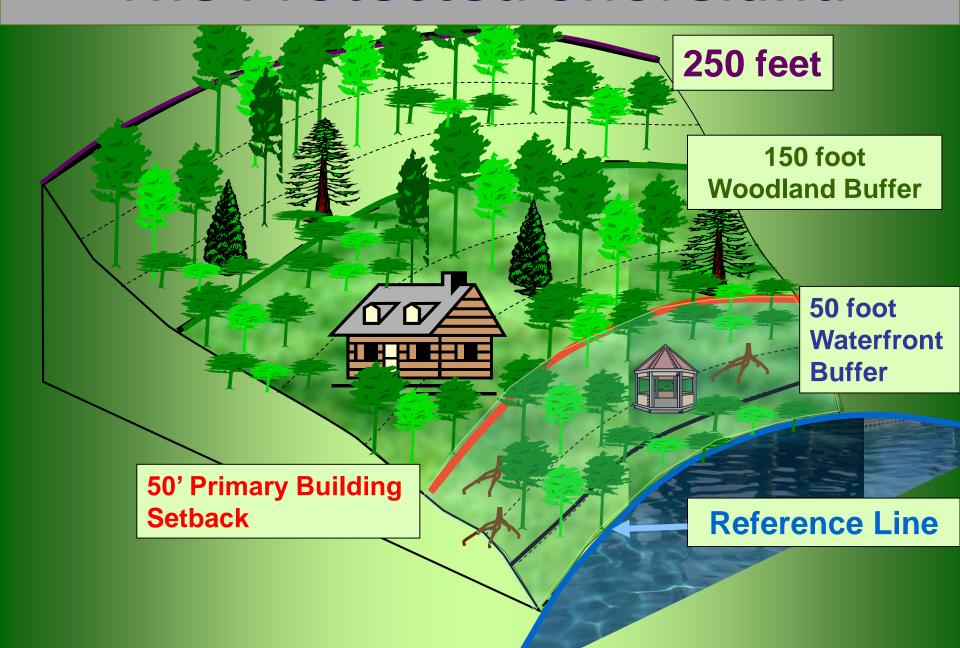


The Shoreland Water Quality Protection Act Purpose:





The Protected Shoreland



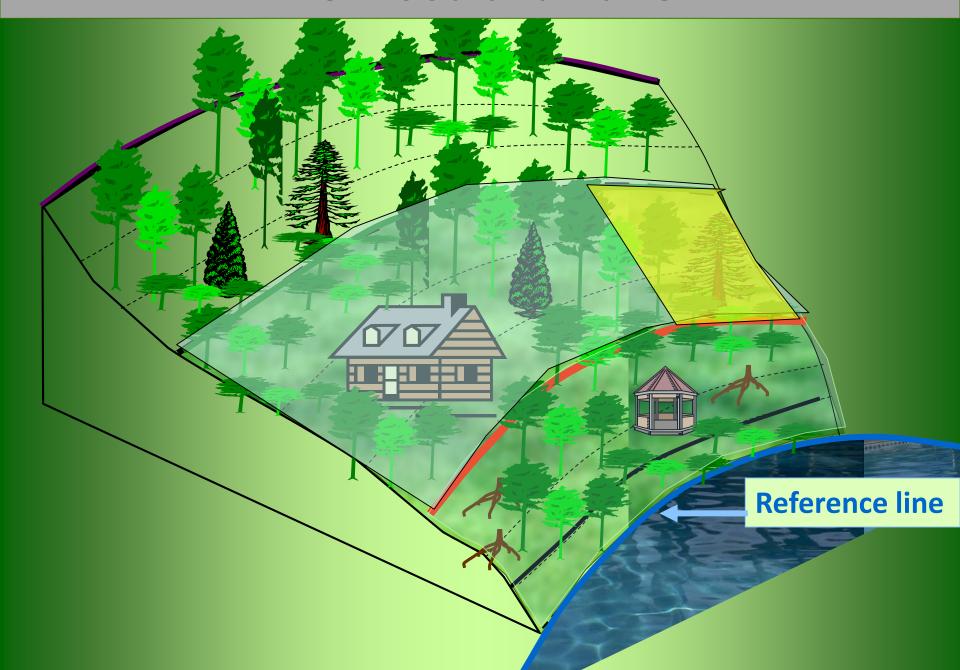
The Woodland Buffer Area

At least 25 percent of the woodland buffer area located between 50 feet and 150 feet from the reference line shall be maintained as natural woodland

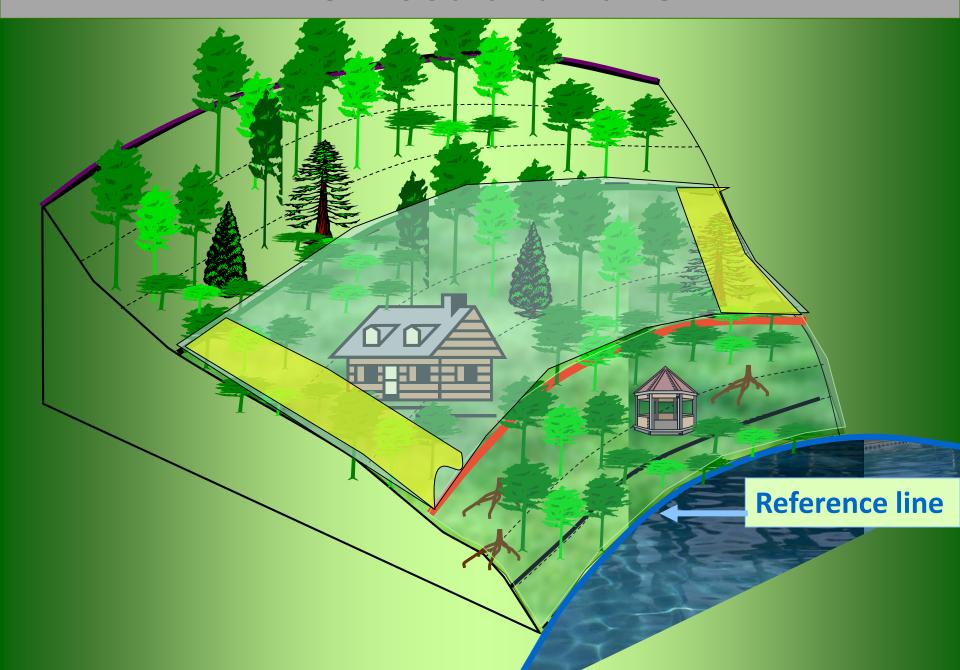
The Woodland Buffer Area

"Natural woodland" means a forested area consisting of various species of trees, saplings, shrubs, and ground covers in any combination and at any stage of growth.

The Woodland Buffer



The Woodland Buffer



Existing Lawns Can be Maintained. Lawn is <u>Altered</u> Area.



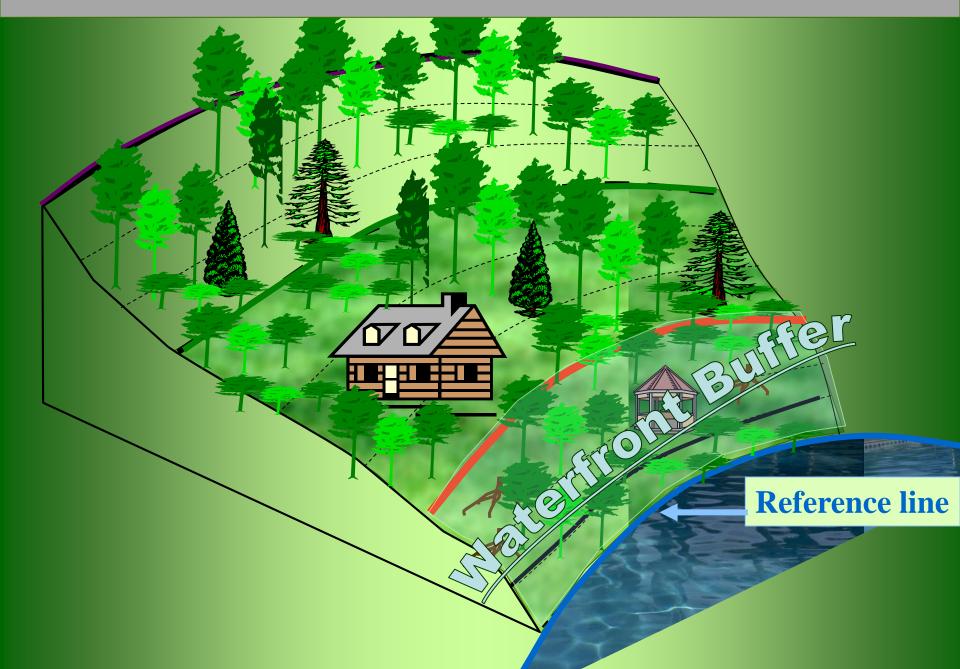
Can't reduce below what exists today 250 ft 150 代 **50** ft **Reference line**

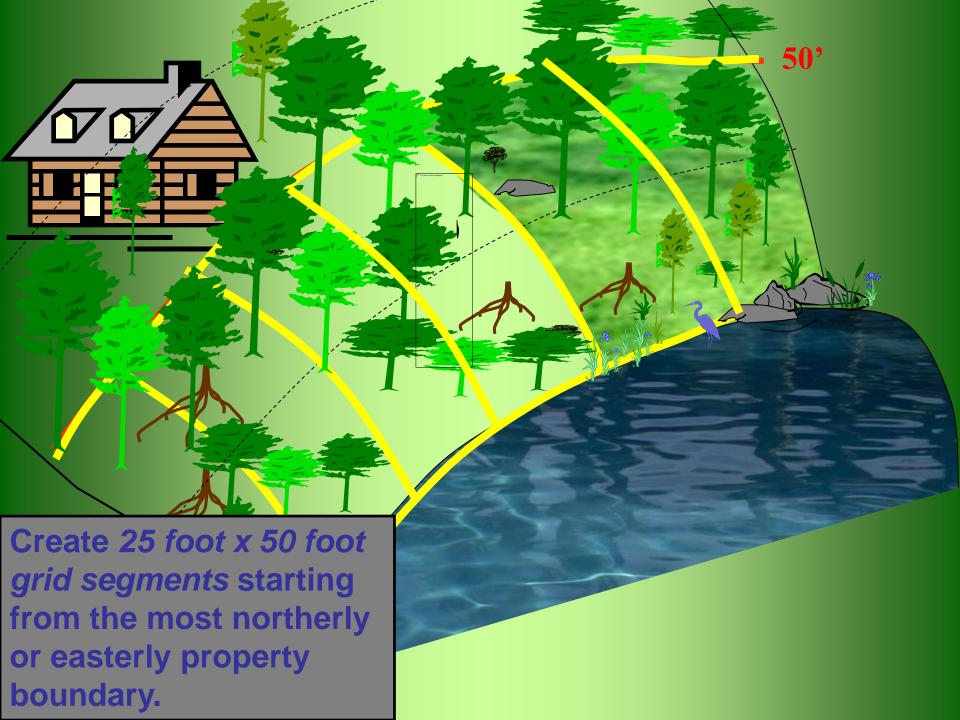
The Waterfront Buffer Area

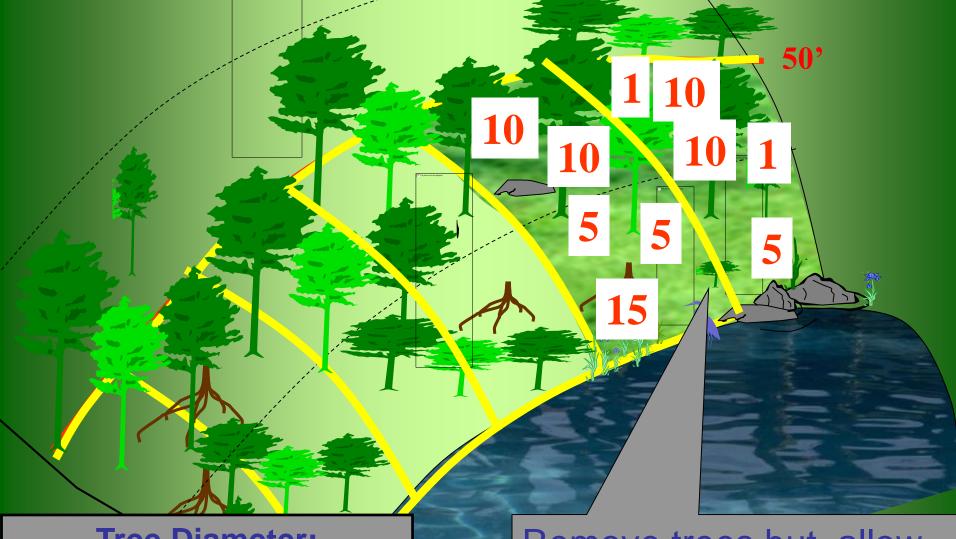


The Waterfront Buffer Extends 50 Feet Landward from the Reference Line

The Waterfront Buffer







Tree Diameter:

= 1 pt 1-3"

> 3-6" = 5 pts

> 6-12" = 10 pts

> 12" = 15 pts Remove trees but, allow at least 25 points of trees and saplings to remain within each grid segment.



ENVIRONMENTAL

Fact Sheet



29 Hazen Drive, Concord, New Hampshire D3301 . (603) 271-3503 . www.des.nh.gov

WD-SP-5 2017

Vegetation Management for Water Quality

New Hampshire's waterbodies provide benefits and uses we all enjoy: fishing, boating and natural beauty to name a few. As communities grow and New Hampshire's landscape changes, the quality of our public waters depends on each of us managing the trees, shrubs and low-growing plants on our property. Nature's most economical and efficient stormwater purification system is a combination of native shoreland plants.

The best vegetation for healthy waterbodies are trees and plants such as oaks, pines, willows and blueberry bushes; they slow down, absorb and purify much more stormwater than low-growing plants with shallow roots such as lawns and mulched garden beds. Trees and plants help remove the oils, salt, heavy metals, fertilizers, and other contaminants from stormwater runoff and spring snowmelt before they enter our lakes and rivers. Even the dense mat of leaves and needles under our trees plays a unique role in purifying our water. Plus, birds, fish and insects rely on the shade, protection and fruits provided by native shoreland plants.

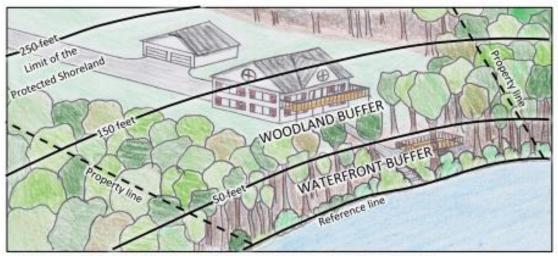
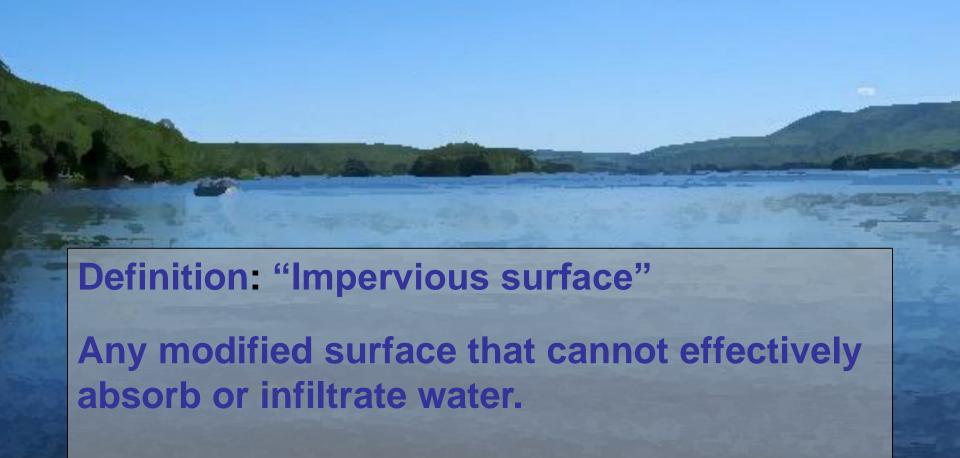


Figure 1: The Waterfront Buffer and the Woodland Buffer located within the Protected Shoreland.

Impervious Surface Limitations



Impervious Surface Limitations



- Roofs
- Decks
- Patios
- Walkways
- Paved-gravel-crushed stone driveways





Impervious Area Thresholds

When the post-construction impervious area exceeds:

a. 20%

b. 30%

Impervious Area Thresholds



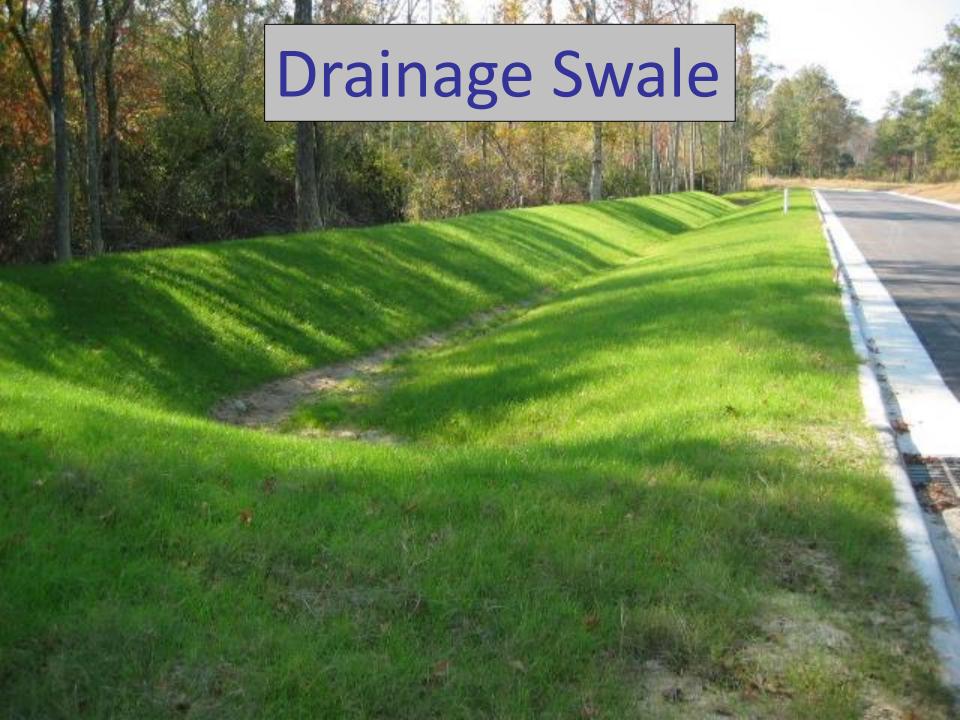
1.) A stormwater management plan must be implemented to infiltrate increased stormwater from development.











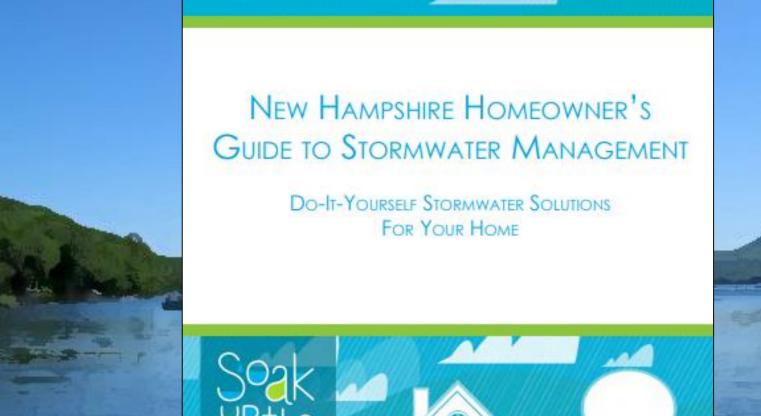








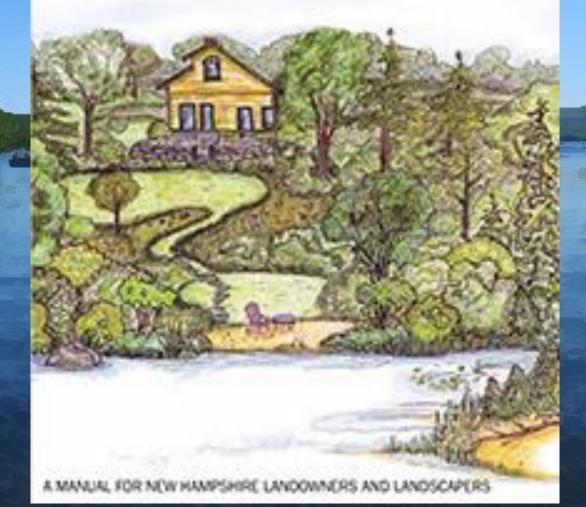






MARCH 2016

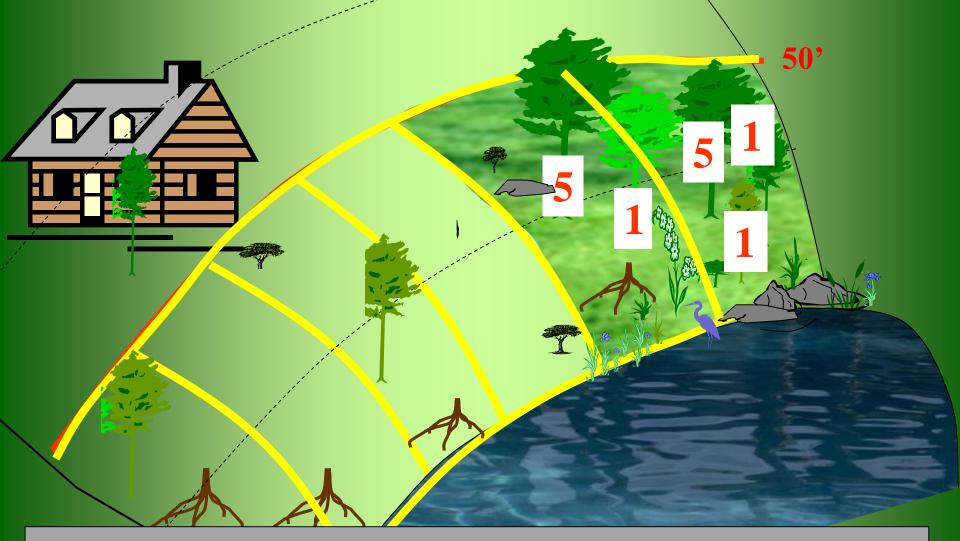




Impervious Surface Thresholds

When a project proposes *greater than 30%* impervious area:

- 1.) If any grid segment does not meet the minimum required grid score (25 pts), an equivalent level of protection must be planted to at least meet the minimum required grid score.
- 2.) A stormwater management plan must be designed and installed by a licensed engineer.



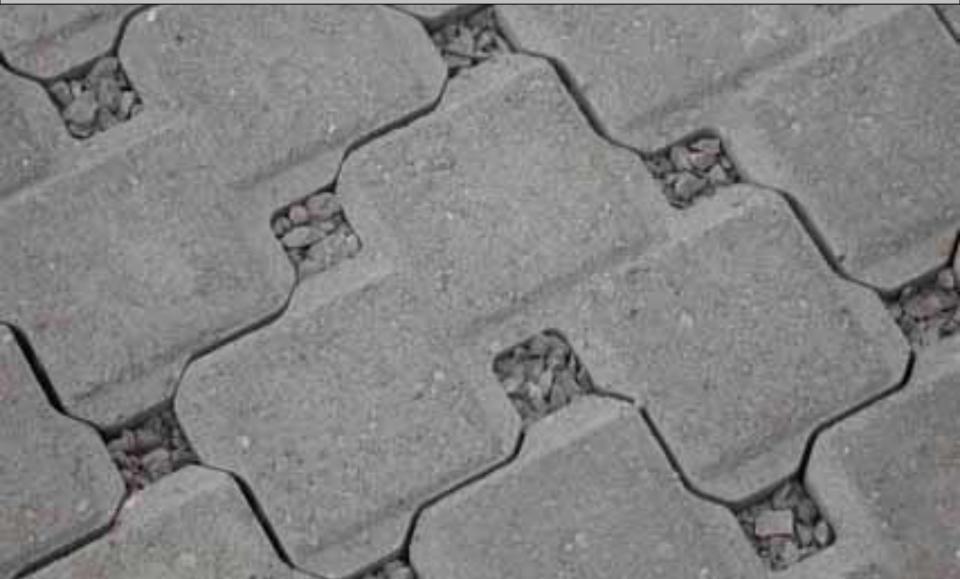
Provide additional plantings within each grid segment so that each grid segments meets the minimum required point 25 point score.



Pervious Surfaces



Pervious materials are not considered when quantifying the total impervious area of the lot within the protected shoreland.













Shoreland Permits



- 1.) Excavation with mechanized equipment
- 2.) Filling that changes the contour of the land
- 3.) Constructing new structures















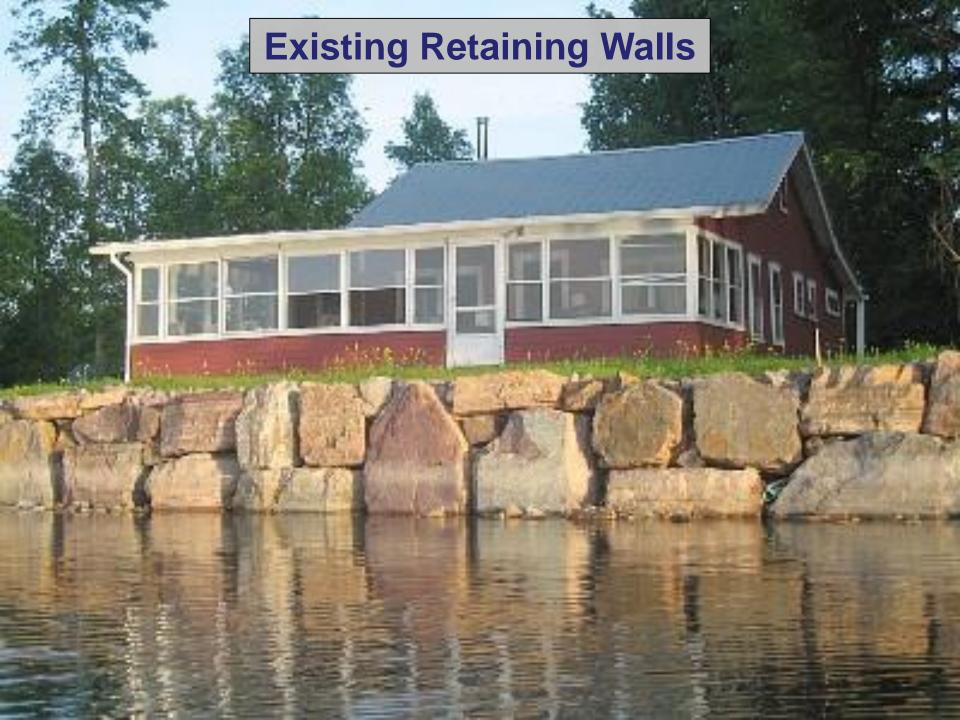










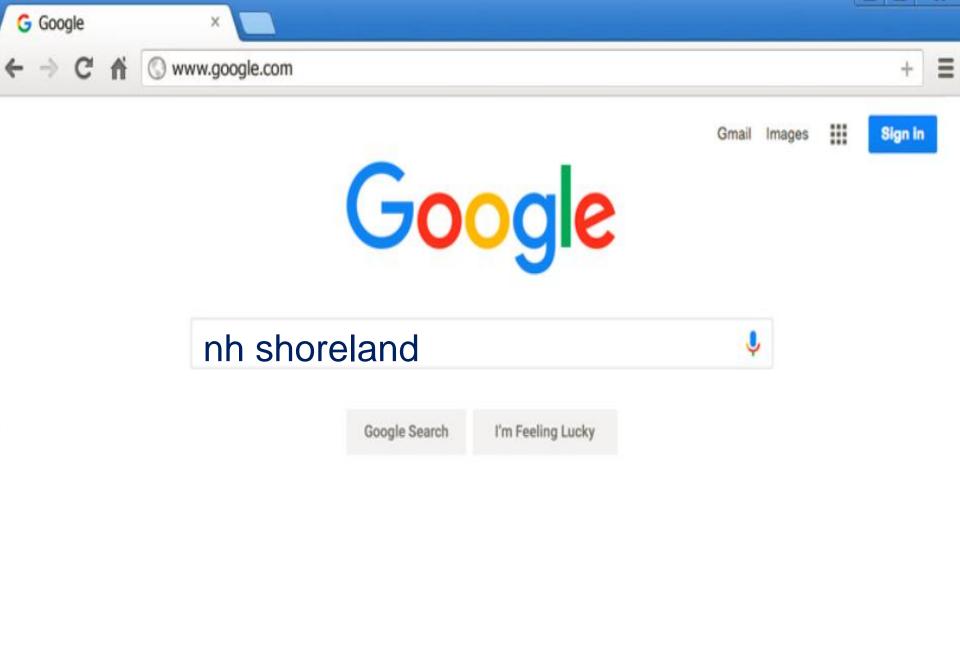




Shoreland/ Wetlands Permits

Visit the Shoreland Program Web Page!





- NHDES Home
- A to Z List
- About NHDES
- Media Center
- Public
- Government
- Business
- Programs
- Rules/Regulatory
- Contact Us



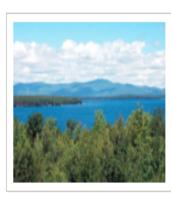


Beach Advisory
Drinking Water Advisory



<u>Divisions</u> > <u>Water Division</u> > <u>Programs/Bureaus/Units</u> > <u>Wetlands Bureau</u> >

Shoreland Program



The Shoreland Water Quality Protection Act was originally named the Comprehensive Shoreland Protection Act (CSPA) and was enacted into law in the 1991 session of the Legislature. The act establishes minimum standards for the subdivision, use and development of shorelands adjacent to the state's public water bodies. *more* ...

■ Hot Topics (Complete List)

- Determine if a Shoreland Permit is Required
- NEW! Important Notice Regarding Senate Bill 30 🛅

▶ Publications (Complete List)

- Vegetation Management for Water Quality
- NH Homeowner's Guide to Stormwater Management 🖰
- Summary of the Minimum Standards ²
- Frequently Asked Questions

search this site

Go!

Shoreland Program

- Program Home
- Overview
- Hot Topics
- Publications
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- * Education/Outreach
- Permits
- * Related Programs
- Resources/LinksFAOs
- Contact Us

Water Division

- Water Home
- Division Overview
- Programs/Bureaus/Units
- * Rules/Regulatory
- Publications
- Contact Us

■ Hot Topics (Complete List)

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Publications (Complete List)

- Vegetation Management for Water Quality
- NH Homeowner's Guide to Stormwater Management
- Summary of the Minimum Standards
- Frequently Asked Questions

■ Rules/Regulatory

- RSA 483-B
- Env-Wq 1400 Shoreland Protection

Education/Outreach

- NEW! Landscaping for Water Quality Training in the Sunapee Area
- NEW! <u>Spring Landscape Conference</u>

Permits (Complete List)

- Shoreland Impact Permit
- Shoreland Permit by Notification (PBN)
- Permit Application Status Check
 Copies of Shoreland Impact Permits issued on and after October 10, 2011
 are available online through One-Stop by clicking the link above

* Waste Management Div.

- Water Division
- Boards and

Committees

| NHDES Calendar | | | | | | |
|----------------|----|----|----|----|----|----|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |
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Wetlands Program Rulemaking & Process Improvement Effort

GOALS

- Enhance predictability and transparency
- Increase consistency and standardization
- Ensure scientifically-based decisions that are protective of New Hampshire's important natural resources

Key New definitions

- 102.12 "Avoidance"
- 103.05 "Minimization"
- 103.06 "Minimization measures"
- 103.10 "Need" (Also see Env-Wt 313)
- 103.54 "Special resource area"
- 103.68 "Top of bank"

Wetlands Best Management Practice Techniques

For Avoidance and Minimization



DRAFT Best Management Practices (BMP) Manuals

- DRAFT Wetlands Best Management Practice Techniques for Avoidance and Minimization
- <u>DRAFT Utility Maintenance in and Adjacent to Wetlands and Waterbodies in</u> NH NH
- <u>DRAFT Best Management Practices for Routine Roadway Maintenance</u> Activities in NH
- DRAFT Best Management Practices for Agriculture in NH

Frequently Asked Questions

FAQs about the DRAFT Wetlands Rules



Adobe Acrobat Reader format. Download a free reader from Adobe.

DRAFT Wetlands Administrative Rules

- Summary of the Wetlands Rule Changes
- Corrections & Comments Last updated 3-02-18
 This document identifies editorial and obvious technical corrections, and identifies additional areas NHDES is seeking stakeholder input. This list will be updated if/when additional items are identified.
- Revisions to Env-Wt 306 & Env-Wt 309 relative to PBNs
- Levels of Review Chart
- Env-Wt 100 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 200 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 300 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 400 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 500 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 600 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 700 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 800 Table of contents 🖰 Draft rule text 🖰
- Env-Wt 900 Table of contents 🖰 Draft rule text 🖰

Written comments can be provided by either using the Comment Collection Forms or the comment collector tool below. You may also mail your comments to *Attention: Mary Ann Tilton, 29 Hazen Drive, Concord, NH 03302* or email to: maryann.tilton@des.nh.gov. When sending email comments, please be sure to include "2018 Wetland Rule Comments" in the subject line of your email.

Use our web-based tool to submit a comment directly to NHDES: <u>Submit a</u>
 <u>Comment or Suggestion to NHDES</u>

