

# Pocasset Village Association Annual Meeting

June 10, 2023

Pocasset Water  
Quality Coalition



# Pocasset Water Quality Coalition

Is tracking the revisions of the Massachusetts Title V Septic Regulations expected at the end of June.

Learn more at the

**PWQC 2023 Annual Meeting**  
Saturday August 19 @ 10:00 AM  
PHIA Building, 100 Circuit Avenue



Featuring **Andrew Gottlieb, Director, Association to Preserve Cape Cod**

**NOTE:** The Pocasset Village Association is a Cooperator with the PWQC.

# Agenda

- Past
- Present
- Future







Past – the beauty of Hen Cove

# Present – built landscape





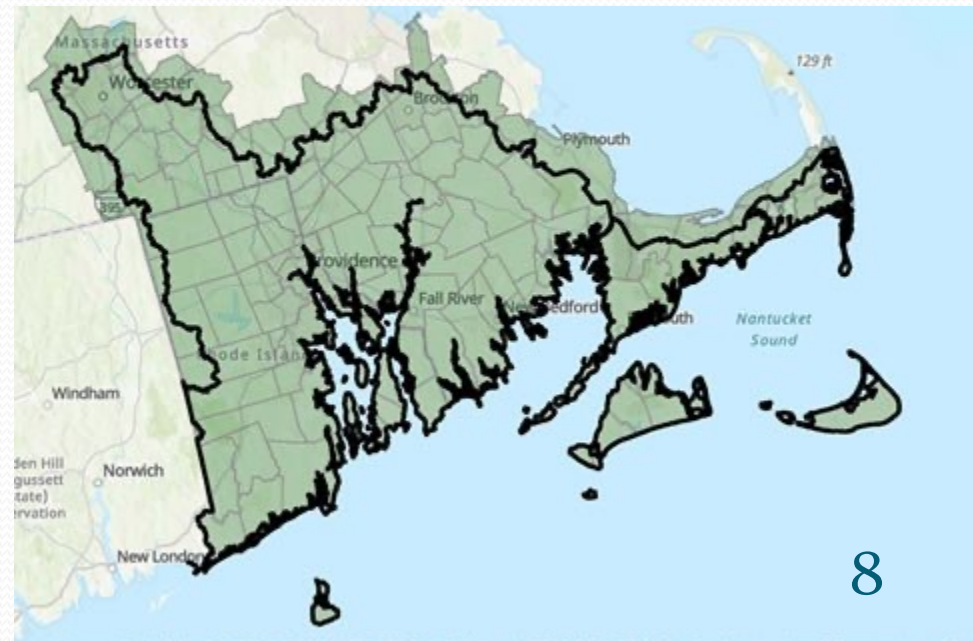
Present – built landscape

# SNEP Watershed Implementation Grant (SWIG)

- April 6, 2023 - PWQC submits a Letter of Intent
- May 1, 2023 – PWQC invited to submit a full proposal
- June 16 2023 – SWIG Full Proposal due



*Building resilient communities  
connected through watershed action,  
collaboration, and innovation*





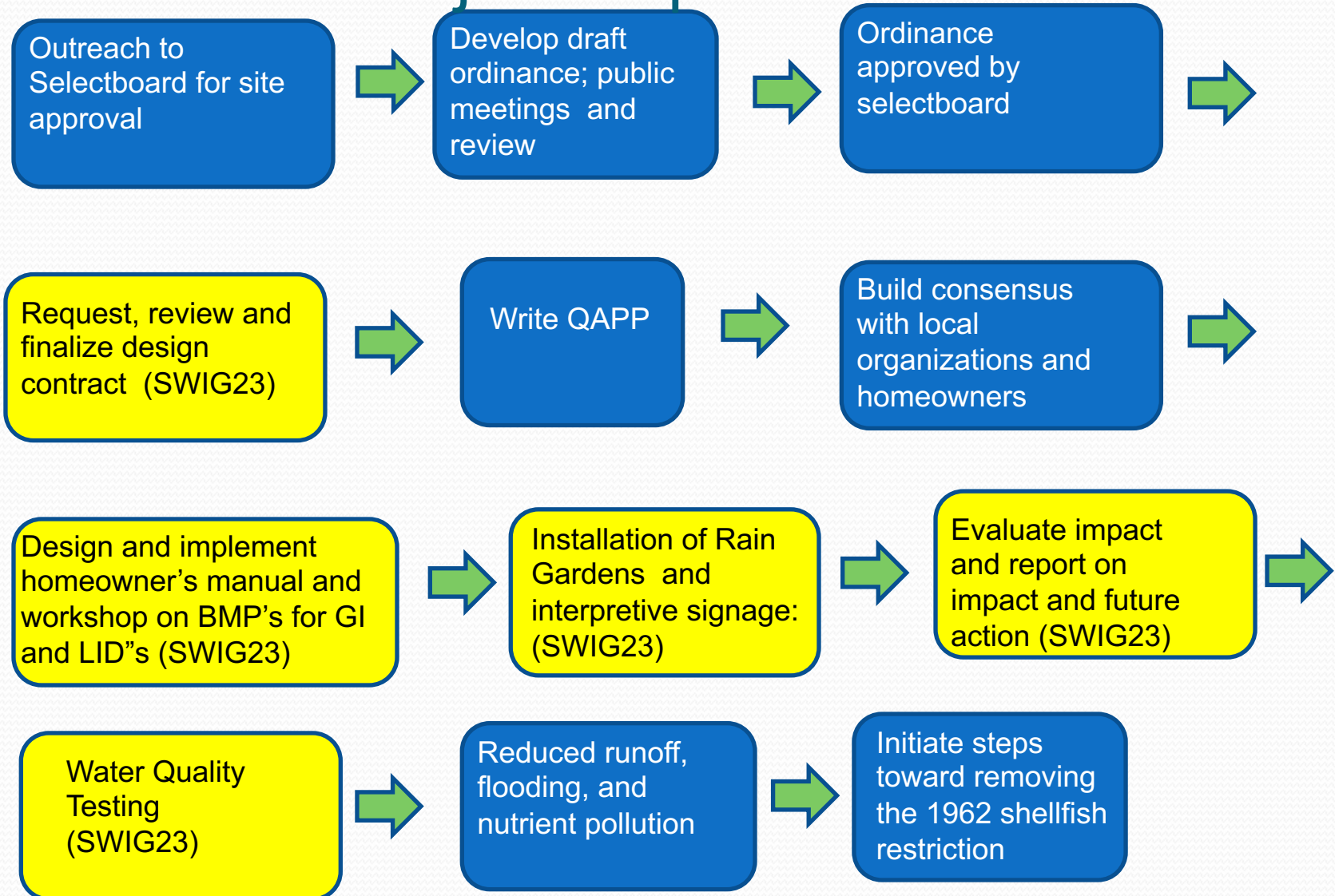
# PWQC's proposal incorporates the following vision and goals:

- Thriving watersheds and natural lands
- Sustainable communities
- Build collaborations
- Engage all stakeholders in action

To establish Healthy Harbors for Families and Nature

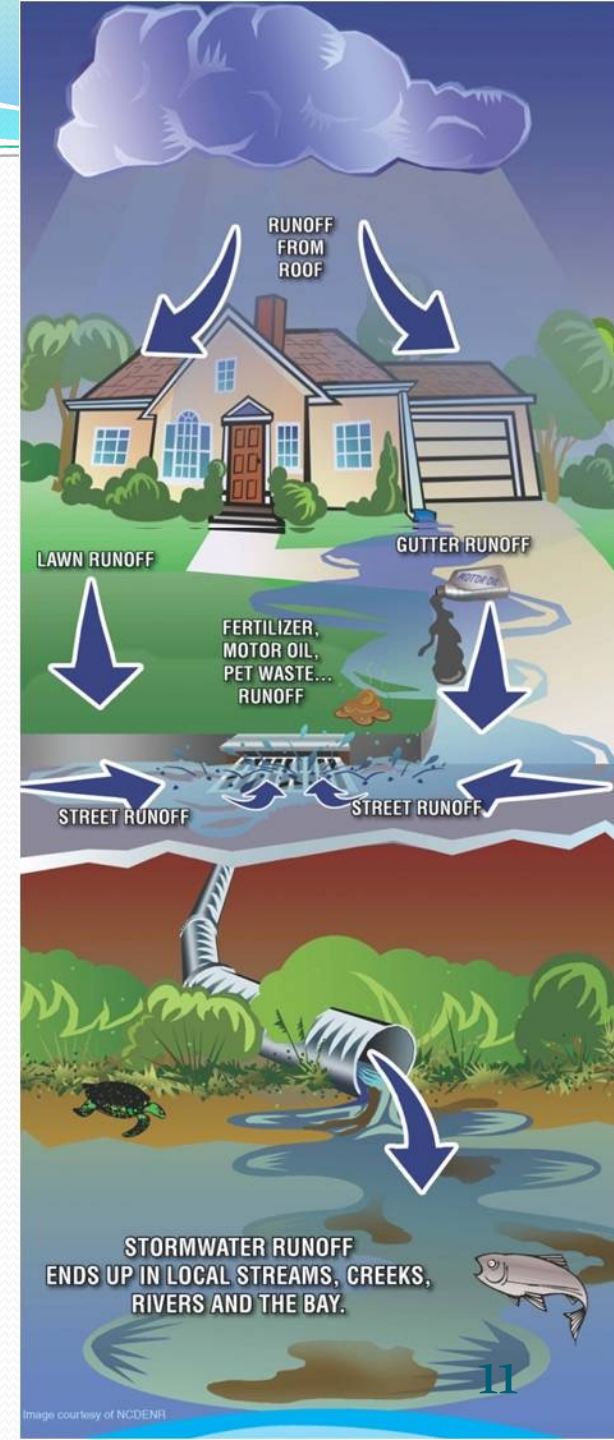
# 2023 SNEP Watershed Implementation Grant

## Project Impact Model



# The Challenge – Stormwater Runoff

- “the single largest source of water body impairment (nutrient contamination)”
- “Increased population and development on Cape Cod”
- “Approximately 8 percent of the total nitrogen load Cape wide”
- “algal growth, leading to oxygen depletion in the water, lack of light and lots of decaying seaweed on the seafloor”
- “decline in fishing, shellfishing, tourism, and property values.”

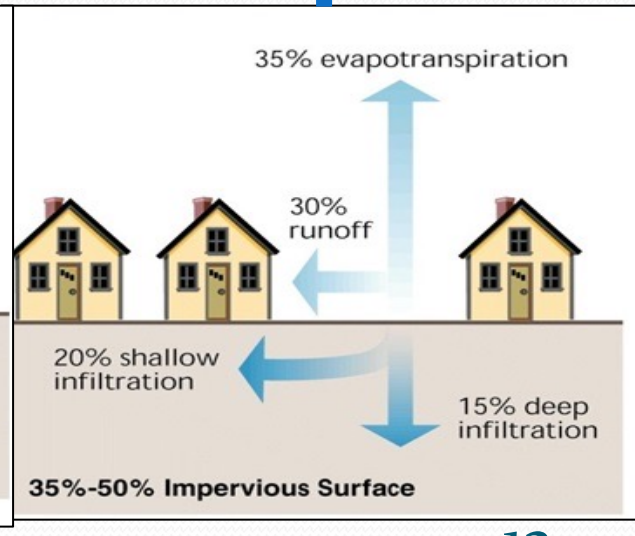
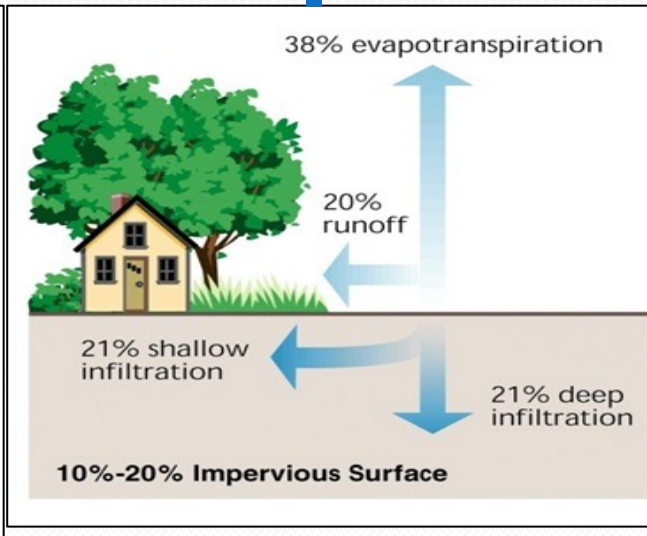
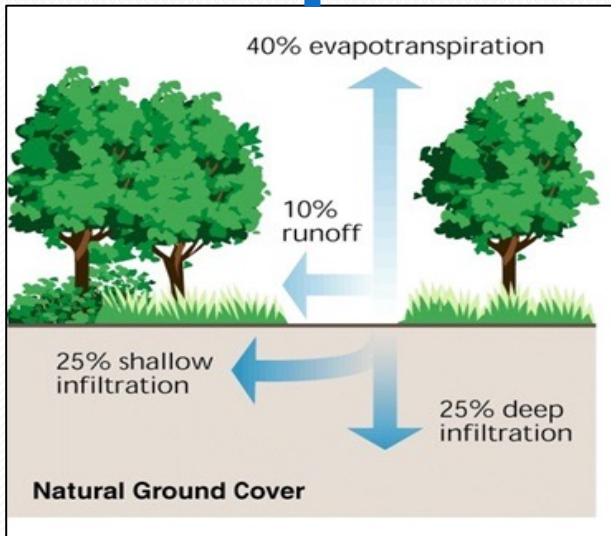
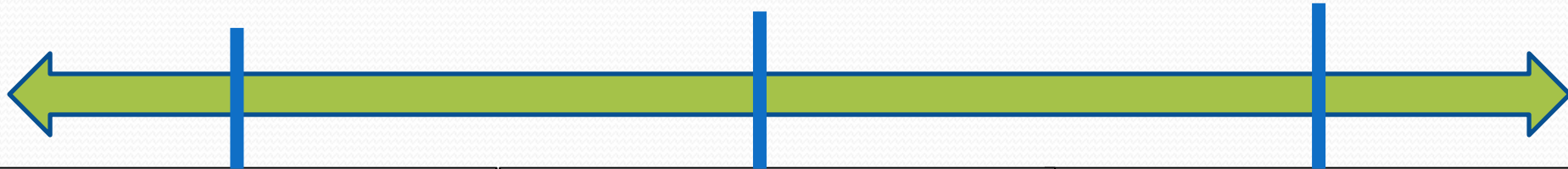


# The Challenge— Stormwater 101

In a perfect world

Project Goal

Current Situation



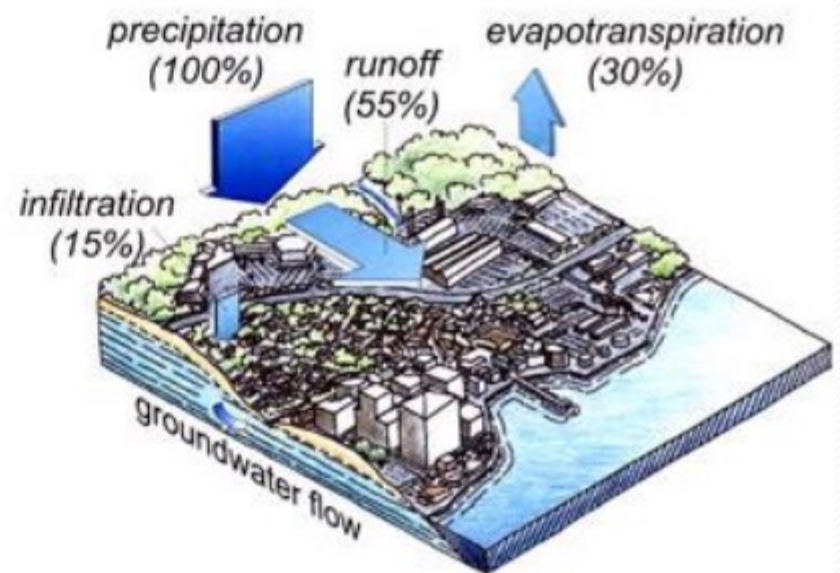
# The Challenge— Stormwater 101



**Minimally impacted**

↑ Infiltration

↓ Runoff

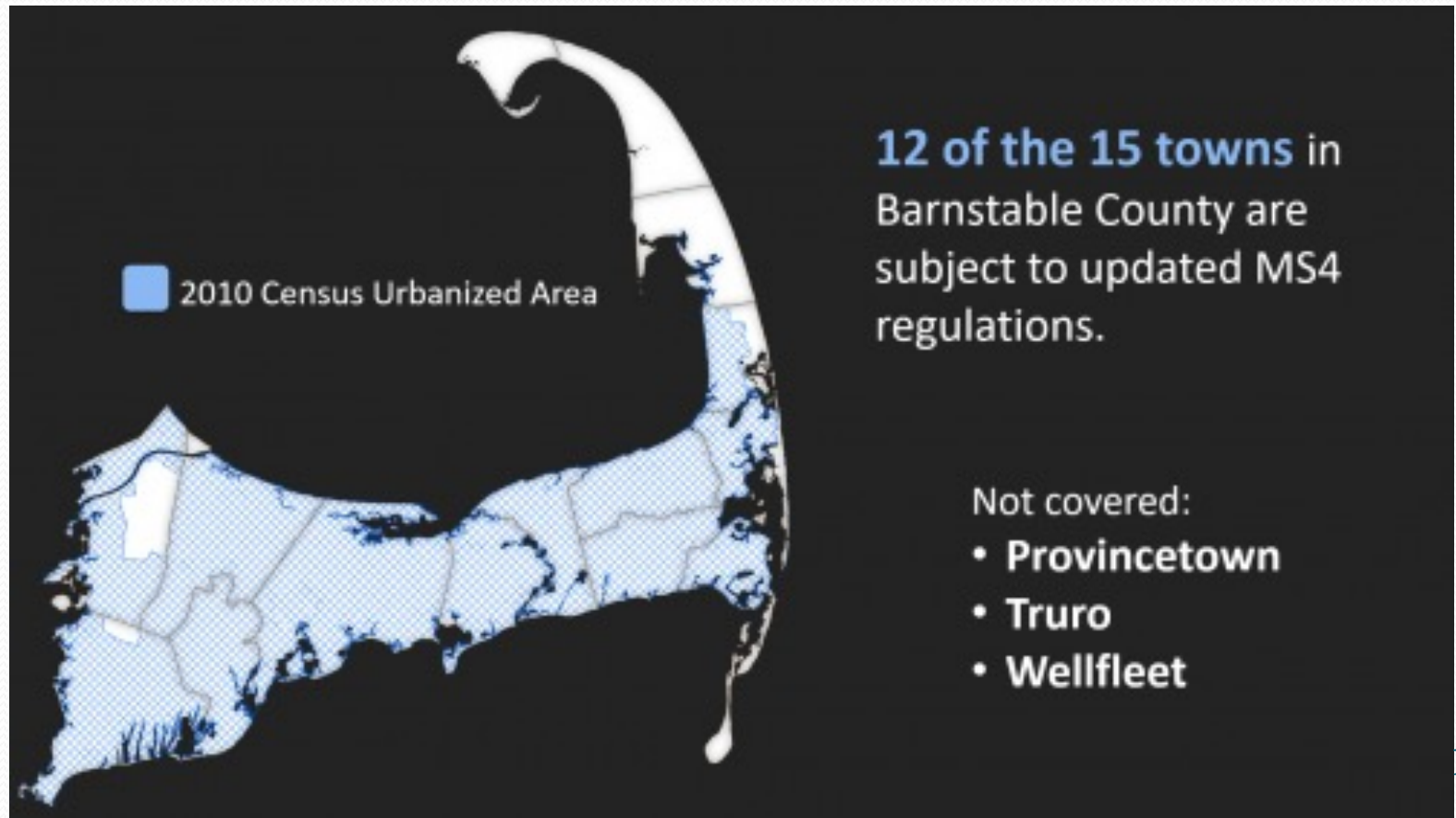


**Highly impacted**

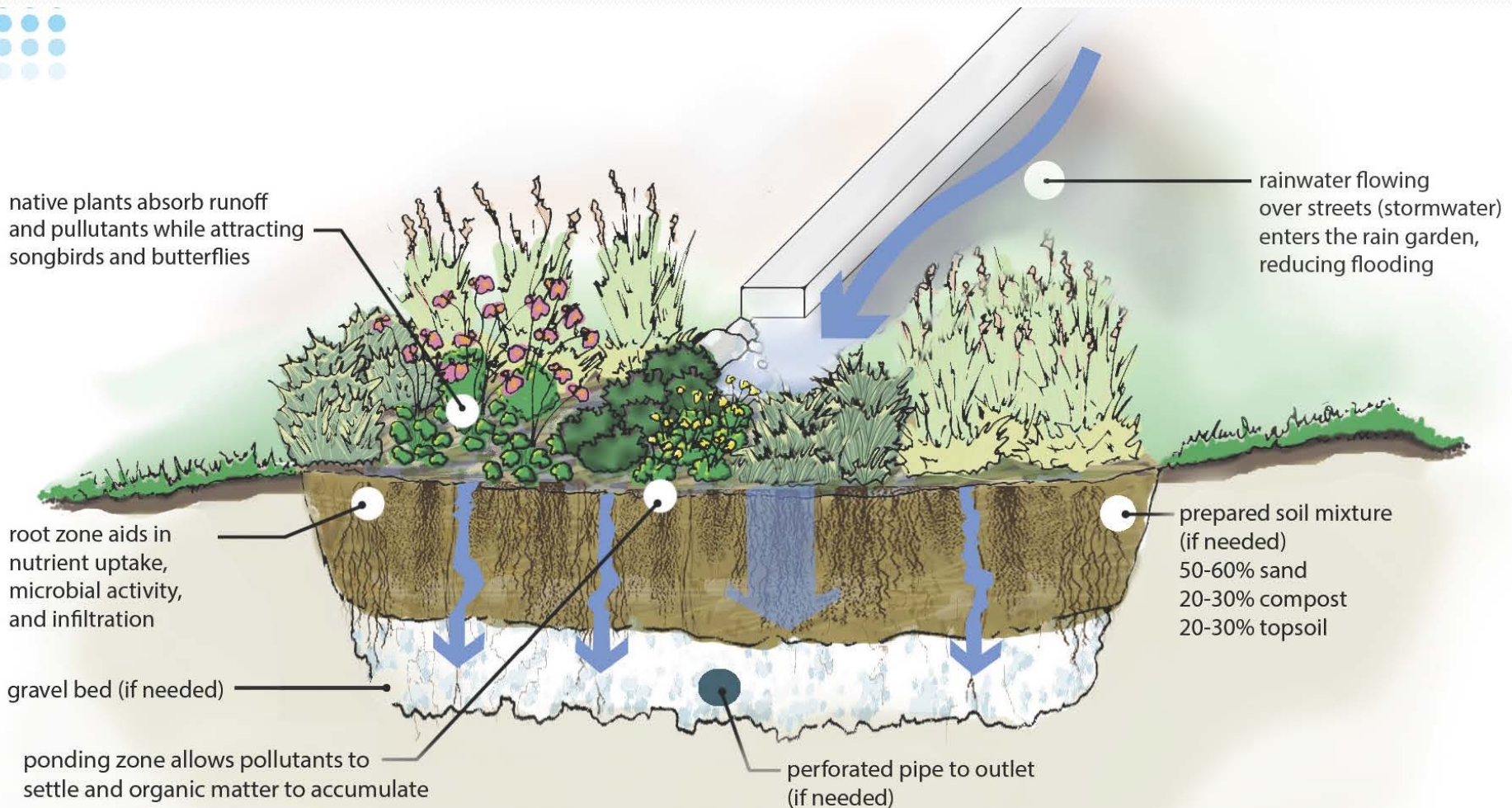
↓ Infiltration

↑ Runoff

# Meet requirements of Massachusetts Small Municipal Separate Sewer System (MS4)



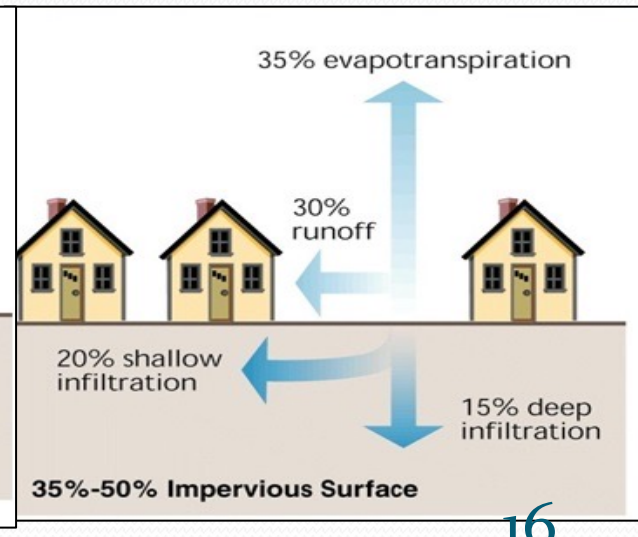
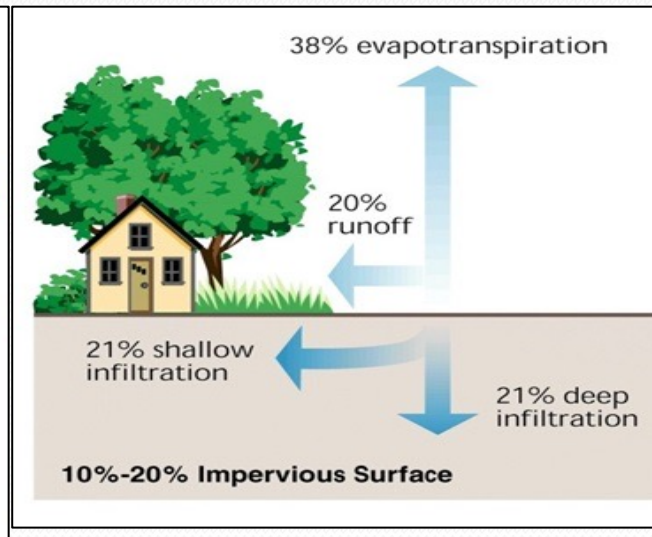
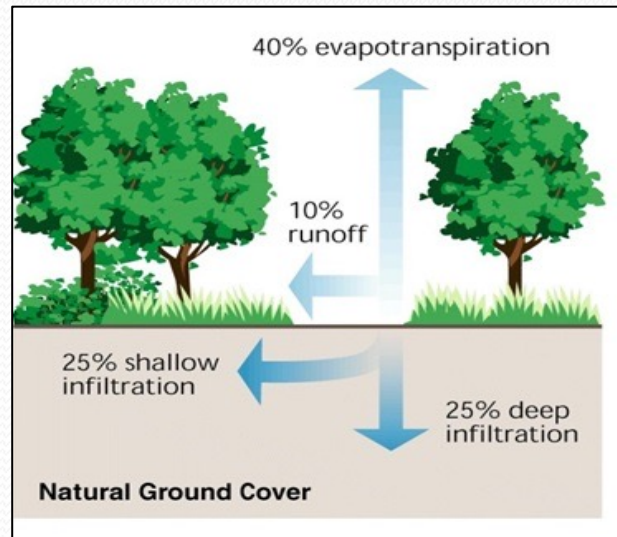
# The Solution – Rain Gardens



# The Solution – Rain Garden



Current Situation





# Benefits of rain gardens and bioswales

(and rain barrels, permeable surfaces, tree planting, fertilizer free lawns, .....

- Reduce stormwater runoff
  - Absorb 30% more stormwater
  - Reduce 70% of surface water pollution from stormwater runoff
- Groundwater recharge
- Increase pollinator foodshed
- Increase biodiversity and natural habitat
- Reduce contaminants in watershed
- Increase property value
- Mitigate impacts of global warming
- Decrease airborne particulates

# The Solution – Bioswales

- Similar to rain gardens but capture more storm water runoff
- Slowdown stormwater discharge and remove pollutants



# The Future— Reduce runoff

and protect Hen Cove from your backyard



## VOLUNTEER AT OUR RAIN GARDEN INSTALL DAYS!

1. Install a rain garden (decrease lawn area)
2. Replace pavement with permeable surfaces
3. Collect water with a rain barrel
4. Implement a pet waste management program
5. Install a bioswale (near the curb)
6. Mulch garden beds
7. Plant trees and shrubs



# The Future— Reduce Runoff

and protect Hen Cove from your backyard



**VOLUNTEER AT OUR RAIN GARDEN INSTALL DAYS!**

1. Plant native and drought tolerant plant species
2. Water wisely (lawns only need 1 inch/week)
  - a. Lawns need 1/inch per week
  - b. Decrease time and/or number of days for automatic watering schedule
3. Adopt low/zero nitrogen lawn maintenance by
  - a. Avoiding combination fertilizer and pesticide products
  - b. Using a mulching mower
  - c. Spreading lime
  - d. Switching to organic and slow release fertilizers



# The Future— Reduce runoff protect Hen Cove from your back

- Install a rain garden (decrease lawn)
- Replace pavement with permeable
- Collect water with a rain barrel
- Implement a no-spray policy
- Install a lawn aeration schedule
- Mulch lawn
- Plant native plants
- Plant trees
- Water wisely
  - Lawn watering schedule
  - Decrease lawn area
- Adopt low-impact lawn care products
  - Avoiding pesticides
  - Using a mulch
  - Spreading fertilizer
  - Switching to slow release fertilizers

I/we can commit to ....



lawn watering schedule

low-impact lawn care products



# VOLUNTEER AT OUR RAIN GARDEN INSTALL DAYS!

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  - a. Avoiding combination fertilizer and pesticide products
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**RENEW OR BECOME A MEMBER OF PWQC**



# Thank you

## #1 Best Management Practice –

- Renew or sign up for membership in Pocasset Water Quality Coalition!

For more information, contact:

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- [rdwyerphd@gmail.com](mailto:rdwyerphd@gmail.com)
- [lauralmaclachlan@outlook.com](mailto:lauralmaclachlan@outlook.com)

### **SAVE THE DATE!**

**PWQC 2023 Annual Meeting**  
Saturday August 19 @ 10:00 AM  
PHIA Building, 100 Circuit  
Avenue  
Speakers and agenda TBA soon!



For more information on Green Infrastructure – Best Management Practices

- [What is Green Infrastructure?](#)
- [Stormwater Management from the Association to Preserve Cape Cod \(APCC\)](#)
  - [A Cape Cod Rain Garden at APCC](#)
- [Chesapeake RiverWise Communities](#)
- [Restoring the Maidford River Watershed](#)
- [Soak of the Rain: the Benefits of Green Infrastructure](#)