Septic System Vulnerability Assessments

Helping communities understand threats to their shellfishing resources

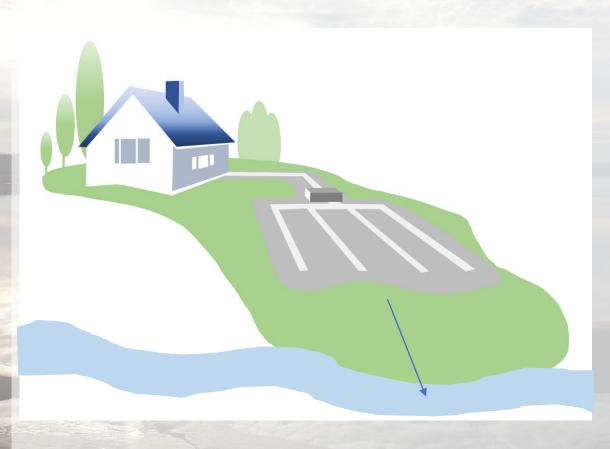
Maggie Kelly
FB Environmental Associates

Maine Coastal Communities Grant: Septic System Vulnerability
Assessment Guidance Document Development and Case Study in
Waldoboro, ME

Overview

- Septic systems & their impact on water quality
- System malfunctions and contamination
- Pollution affecting shellfish growing areas
- Helping communities identify pollution problems
- Guidance Document

Septic Systems: Impact on Water Quality



- Septic systems
 prevent nutrients,
 bacteria, and other
 pollutants from
 entering
 waterbodies
- Malfunctioning systems can pollute local waterbodies

Septic System Malfunctions: Sometimes Visible, Sometimes Invisible

- Signs of a malfunctioning septic system:
 - Slow drainage
 - Gurgling in plumbing
 - The leach field has dying, spongy, or bright
 - green grass,
 - Foul odors
- Signs may be invisible



Pollution Affecting Growing Areas

- Shellfish are filter feeders, meaning they feed by straining the surrounding water in order to collect food particles;
- These particles (including bacteria) can then become concentrated in their guts.

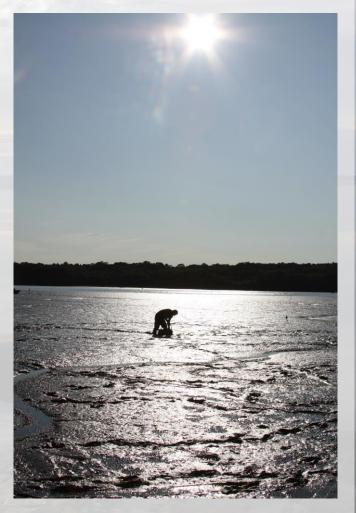
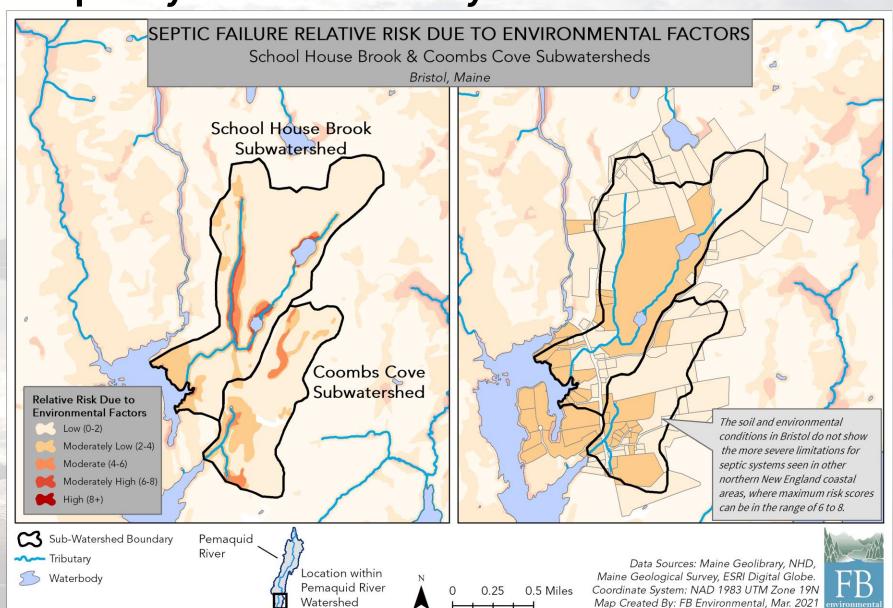


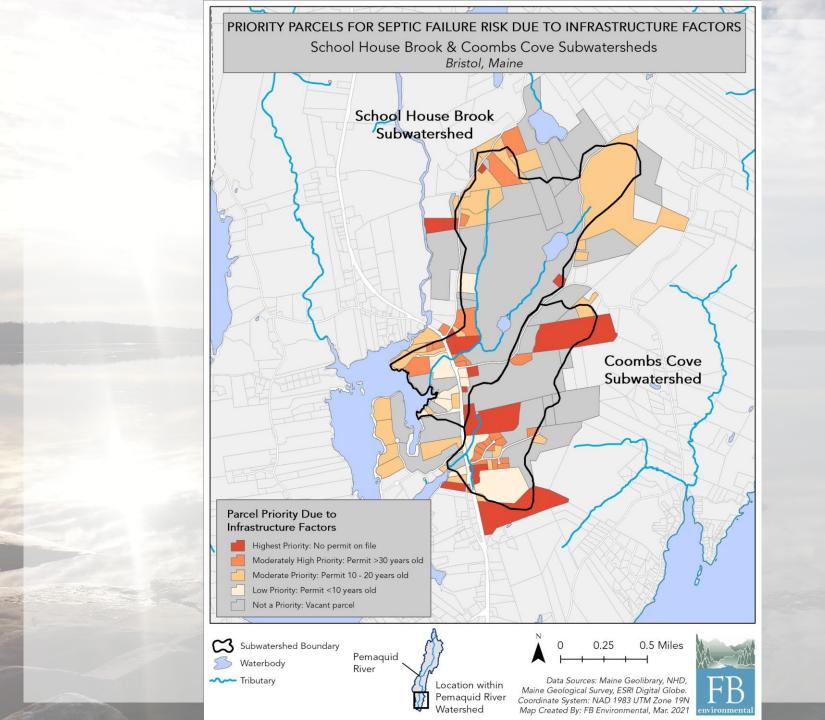
Photo: Julie Keizar

Septic System Vulnerability Guidance Document

- This guidance document:
 - Introduces the threat of failing septic systems to the environment.
 - Presents a septic system vulnerability assessment as a way to identify potential risk.
 - Provides resources for communities to take the next steps towards protecting and restoring water quality.

Septic System Vulnerability Guidance Document





Septic System Vulnerability Guidance Document

- Currently: Guidance document under review
- Outreach and Education
 - Maine Shellfish Learning Network
 - Maine Fishermen's Forum
- Questions?