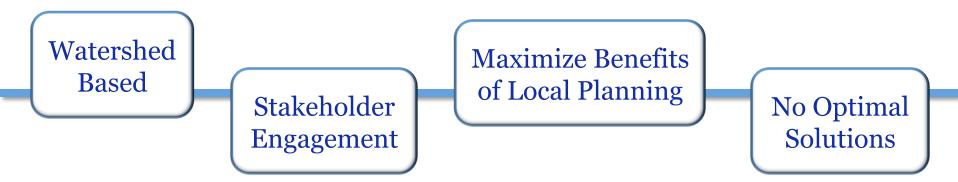
Lower Cape Sub Regional Group



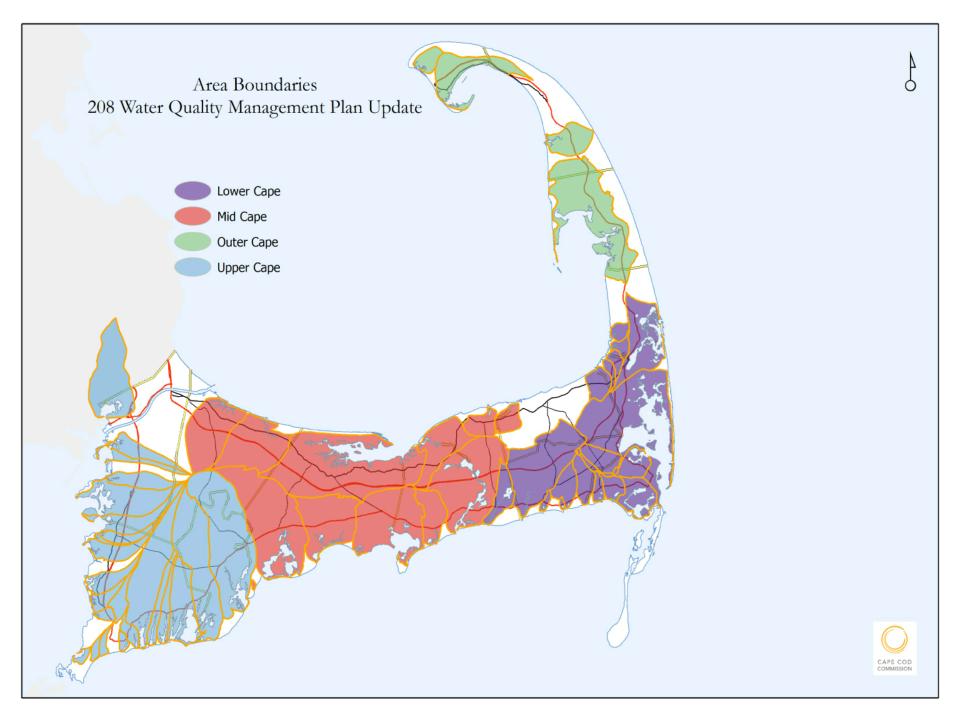
Meeting 1

Approach to the 208 Plan Update



Goal:

To generate a series of approaches in each watershed that will meet water quality standards



Public Meetings

Watershed Working Groups



July August September October December

Watershed Working Group Process

Standing Sub Regional Meeting Topics

Scenario Planning Regulatory, Legal, Institutional

Implementation

Mtg. 1	One representative watershed	Challenges & opportunities associated with permitting the watershed scenario	Adaptive management plans	
Mtg. 2	All shared watersheds & TBL model	Tools to support intermunicipal cooperation	Monitoring	
Mtg. 3	Subregional scenarios & TBL model	Structures for permitting	Financing & affordability	

Standing Sub Regional Meeting Topics

Scenario Planning Regulatory, Legal, Institutional

Implementation

Meeting 1 Goals:

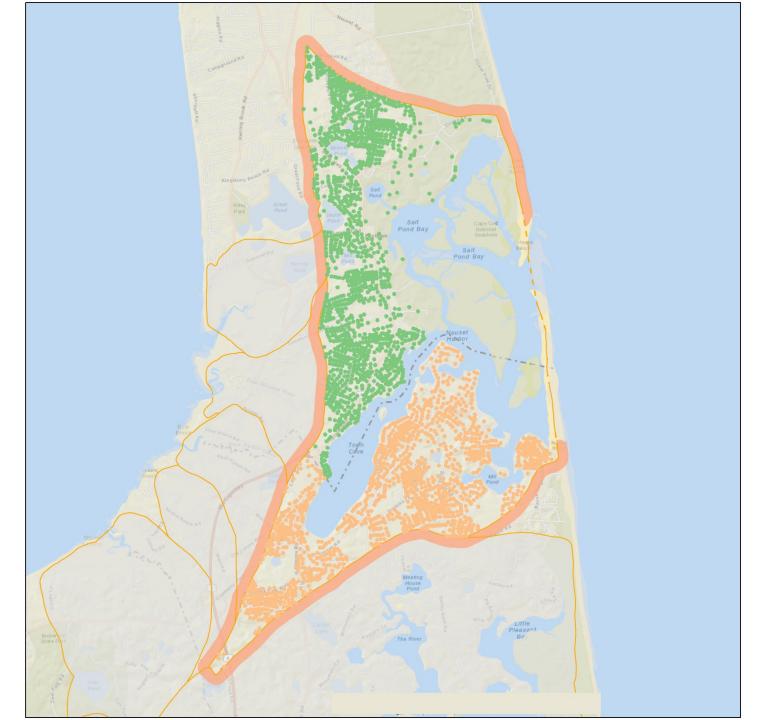
Identify regulatory, legal, and institutional challenges, constraints, and opportunities associated with the 208 Plan approach for water quality

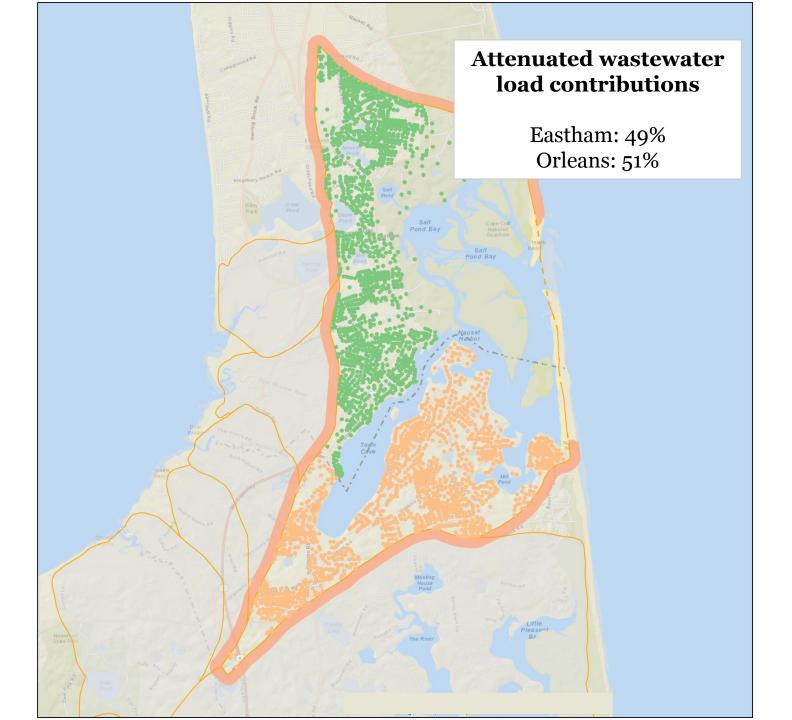
Clarify the definition and components of an adaptive management plan that can be permitted

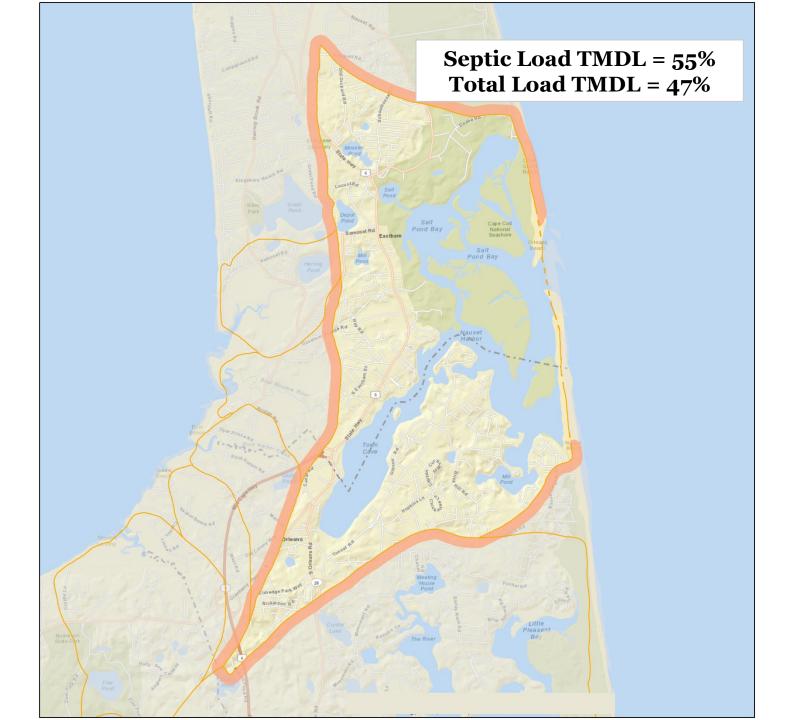
Scenario Planning

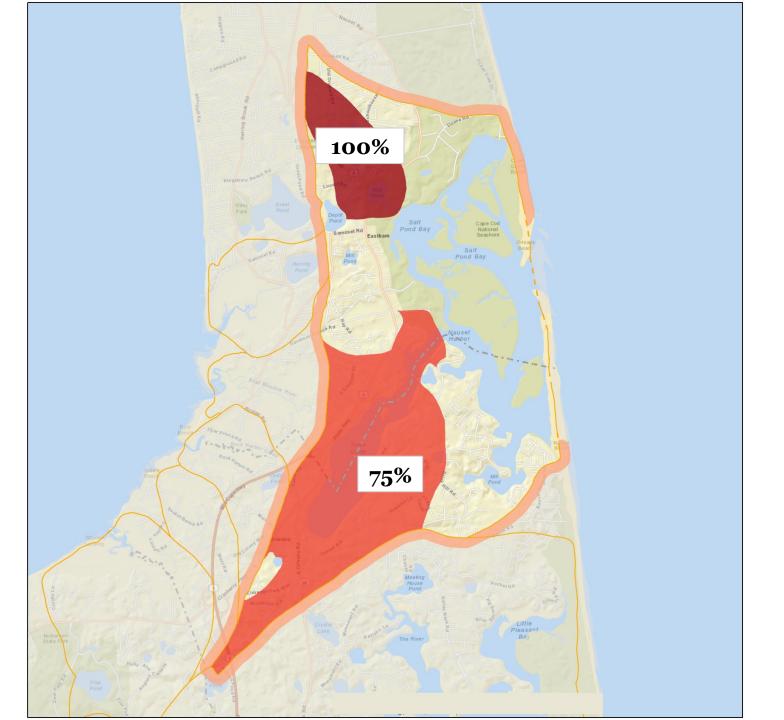
Nauset Marsh

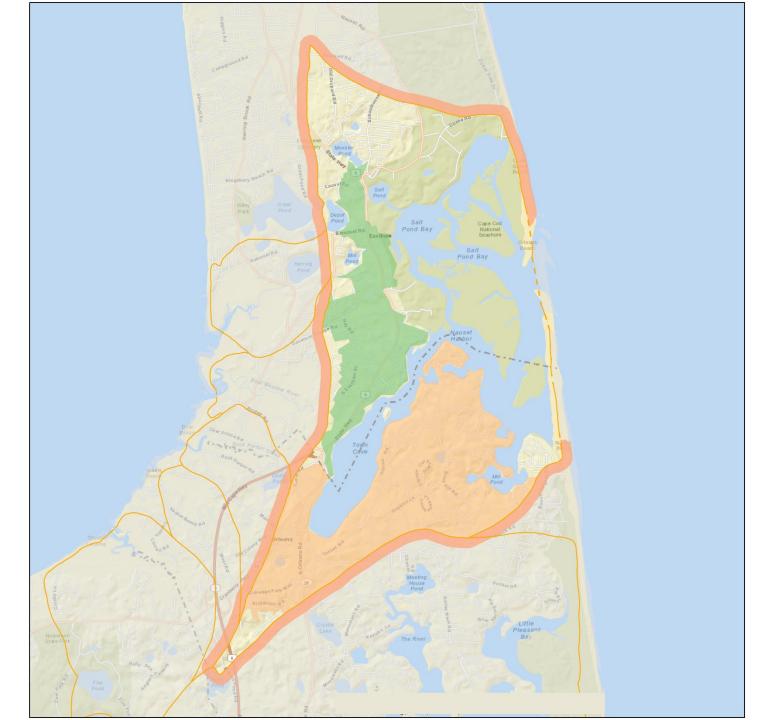












Graditional Approach

MEP Nitrogen Reduction **Targets**

Targeted Collection/ Maximum Collection Footprint

> Targeted Collection with Fertilizer and Stormwater Reduction

> > Minimized Collection **Footprint**

Non-Traditional Approach

Fertilizer Reduction

Stormwater Reduction

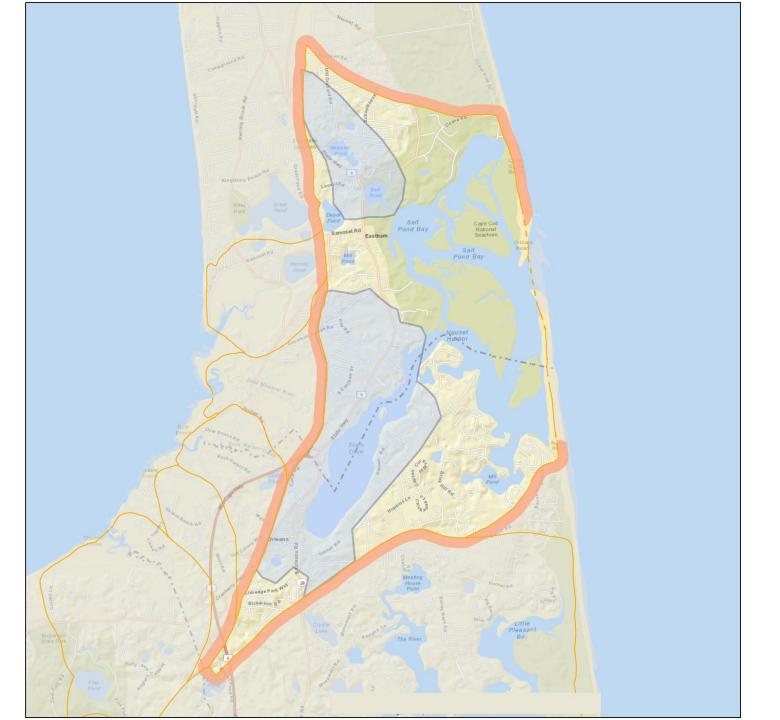
Implementation

Watershed Embayment **Options**

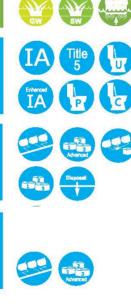
Alternative On-Site **Options**

Minimum Collection **Footprint**











	Federal		DEP		MADOT	вон	ConComm	MEPA
	CWA	GWDP	WMA	I&A		Title 5	WPA	Thresholds
Technology/Approach								
Stormwater Mngmnt								
Fertilizer Mngmnt								
Oyster/Aquaculture								
Ecotoilets								
PRBs								
Constructed Wetlands								
Fertigation Wells								
Phytoremediation								
Habitat Restoration								
Inlet Widening								
Dredging								

Additional permits may apply. Other agencies involved could include:

- MA Natural Heritage and Endangered Species Program
- MA Historical Commission
- US Fish & Wildlife Service/Division of Marine Fisheries

Regulatory, Legal, and Institutional Interactions

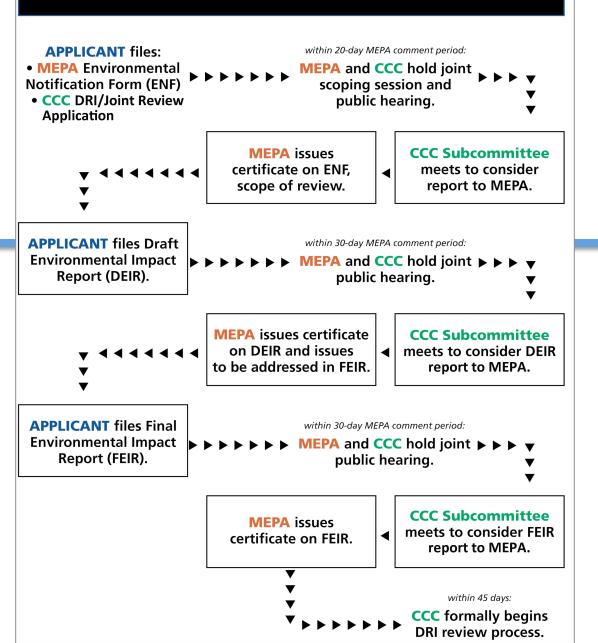
What are some of the hurdles and opportunities associated with permitting the above scenarios?

Regulatory Purposes

MEPA CCC DEP

Joint MEPA/CCC Review:

Projects Requiring Environmental Impact Report (EIR)



Traditional technology permitting path

Fertilizer and stormwater reduction credit

Alternative technology permitting paths

Need for Permitting Flexibility

MEPA Certificate for Falmouth CWMP

"Adaptive management acknowledges the uncertainties in design and implementation of projects, carefully monitors outcomes, assesses progress in a transparent fashion and requires recalibration of plans and projects as necessary."

"The FEIR represents an evolution towards the development and implementation of a Targeted Watershed Management Plan for each of the Town's coastal watersheds and includes concrete commitments to projects...that will provide significant reductions in nitrogen loading."

The Secretary certified the plan "to support the towns adaptive management approach to developing long-term solutions and in acknowledgement of the town and its residents concrete support for projects that will reduce nitrogen in the short-term."

"MassDEP comments indicate that an approvable TWMP will satisfy SRF requirements necessary to secure 0% financing."

MEPA/CCC Special Review Procedure

Regulatory, Legal, and Institutional Interactions

What are some of the hurdles and opportunities associated with permitting the above scenarios?

Implementation

What components of an adaptive management plan are needed to achieve permitability and water quality goals?

Adaptive Management

Definition

A structured approach for meeting water quality goals that monitors outcomes, assesses progress over time, and requires recalibration of plans and projects, as necessary, based on review and evaluation of monitoring.

All materials and resources for the Lower Cape Sub Regional Group will be available on the Cape Cod Commission website:



http://watersheds.capecodcommission.org/index.php/watersheds/lower-cape