3225 MAIN STREET • P.O. BOX 226 BARNSTABLE, MASSACHUSETTS 02630

(508) 362-3828 • Fax (508) 362-3136 • www.capecodcommission.org



Agenda

Section 208 Area-Wide Water Quality Management Plan Update Stakeholder Meeting 1 July 14, 2013 4pm Upper Cape Mashpee Public Library

- 1. Introduction
- 2. 208 Area-Wide Water Quality Management Plan Introductions
- 3. Watershed Planning Process
- 4. Questions
- 5. Workshop Breakout

If you are deaf or hard of hearing or are a person with a disability who requires an accommodation, contact the Cape Cod Commission at 508-362-3828 or TTY 508-362-5885.



Section 208

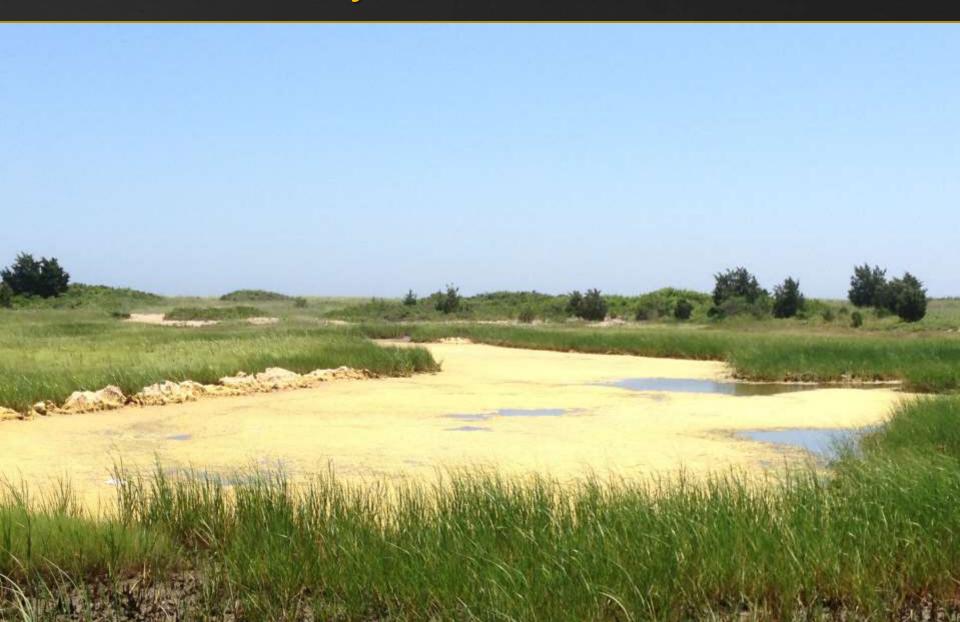
Area-Wide Water Quality Management Plan Update

Upper Cape Area

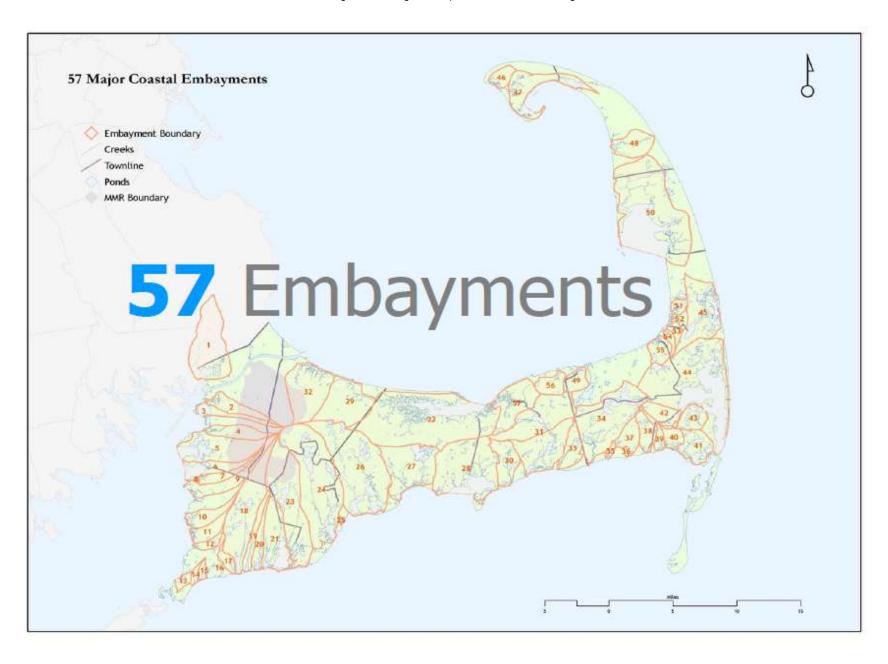


watersheds.capecodcommission.org

Why Are We Here?



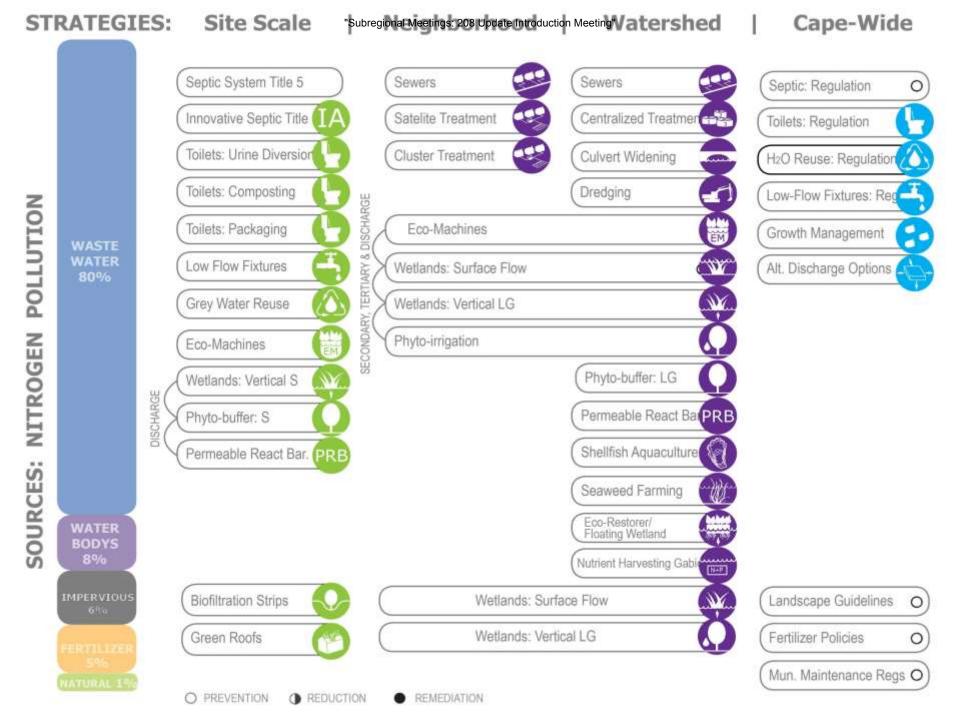






NO Single Solution

No "silver bullet" to fit multiple needs: Infrastructure
AND
Green Infrastructure &
Alternative Approaches



Stakeholder Engagement

CAPE-WIDE

Advisory Board
Communications Strategy
Communications Campaign
Benchmarking & Assessing
Program Branding

Regulatory Coordination

Technical Advisory
Committee

WATERSHED

Stakeholder Communication
Workshop Facilitation
Capacity Building
Watershed Status Portal

watersheds.capecodcommission.org

Project Team

Consultants:

AECOM, Consensus Building Institute Emerson College, Engagement Game Lab, Offshoots Productive Landscapes

Staff:

Cape Cod Commission

Advisory Board

June 18th – First Meeting

Members:

Robert Churchill Churchill Associates

Robert Lawton former Yarmouth Town Administrator

Wendy Northcross CEO of the Cape Cod Chamber of Commerce

Sheila Vanderhoef Eastham Town Administrator

Virginia Valiela Member- Falmouth Water Quality Mngmt Committee

Robin Wilkins former Town of Harwich Selectman

Regulatory, Legal & Institutional Work Group

Members:

Cape Cod Commission

MassDEP

U.S. EPA

U.S. Army Corps of Engineers

Financial/Regulatory Goals

Work with state and federal partners for:

- Regulatory flexibility
- Funding supporting 50% of capital costs

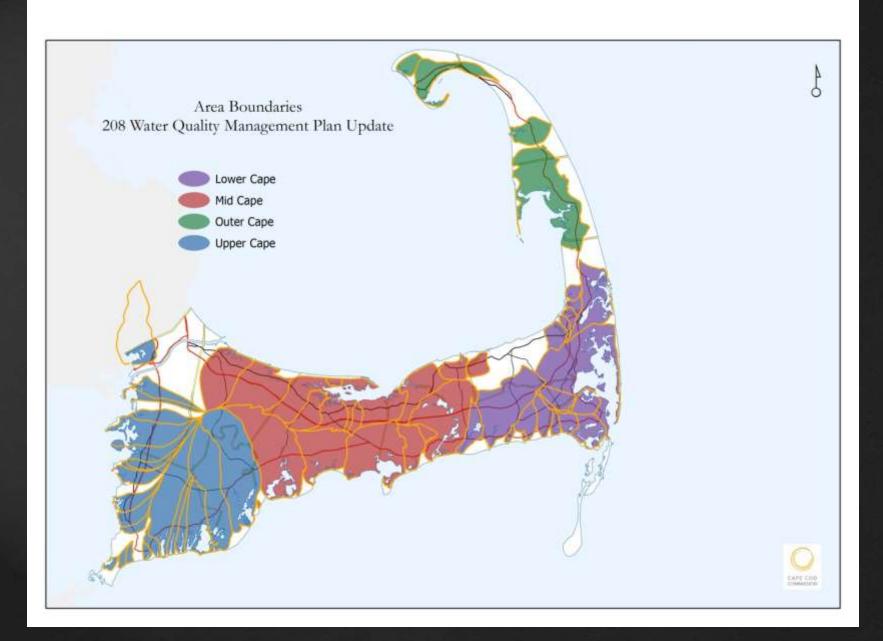
New Tools/Resources

The Commission is developing a set of innovative tools to assist with decision making.

- Watershed MVP
- Systems Dynamics Model
- Green Infrastructure Site Selection Process
- Game-based Planning

Upper Cape Area Manager

Marie Cannon, AECOM



CAPE COD

SECTION 208 WATER QUALITY PLAN UPDATE

CAPE COD Upper Cape Area





SHARED BY: Falmouth, Bourne, Sandwich

Embayment Watersheds:

- * BUTTERHELK BAY Boure * PHENNEY'S HARBOR/BACK BIVER - Bourse, Sandwich
- + POCASSET RIVER Bourne, Sandwich
- + FOCASSET HARROR Bourne, Sendwich
- MEGANSETT HARBOR Bourne, Felmouth, Sendwith
 RANDS CANAL/FEDDLER COVE Bourne, Felmouth, Sandwith
- WELD HARBOR -- Bourne, Faknouth, Sandwidt
- WEST FALMOUTH HARBOR Fairnouth
- · GREAT SIPPEWISSET CREEK Palmouth
- . LITTLE SIPPEWISSET MARSH Felmouth



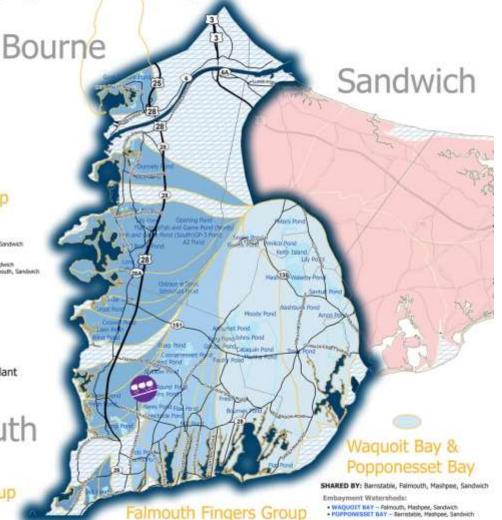


Falmouth



SHARED BY: Falmouth

- Embayment Watersheds:
- QUESSETT HARBOIL Falmouth
 OYSTER POND Falmouth
- SALT POND Femouth





- Embayment Watersheds:
- FALMOUTH INNER HARBOR Famouth
 LITTLE POND Famouth
- GREAT POND Felmouth, Sandwich
 GREEN POND Felmouth
- GREEN POND falmouth
 BOURNES POND falmouth

Mashpee



Watershed Groups & Subwatersheds

WAQUOIT BAY & POPPONESSET

SHARED BY: Barnstable, Falmouth, Mashpee, Sandwich

Embayment Watersheds:

- WAQUOIT BAY Falmouth, Mashpee, Sandwich
- POPPONESSET BAY Barnstable, Mashpee, Sandwich

BUZZARDS BAY GROUP

SHARED BY: Falmouth, Bourne, Sandwich

Embayment Watersheds:

- BUTTERMILK BAY Bourne
- PHINNEY'S HARBOR/BACK RIVER Bourne, Sandwich
- POCASSET RIVER Bourne, Sandwich
- POCASSET HARBOR Bourne, Sandwich
- MEGANSETT HARBOR Bourne, Falmouth, Sandwich
- RANDS CANAL/FIDDLER COVE Bourne, Falmouth, Sandwich
- WILD HARBOR Bourne, Falmouth, Sandwich
- WEST FALMOUTH HARBOR Falmouth
- GREAT SIPPEWISSET CREEK Falmouth
- LITTLE SIPPEWISSET MARSH Falmouth

FALMOUTH FINGERS GROUP

SHARED BY: Falmouth, Sandwich

Embayment Watersheds:

- FALMOUTH INNER HARBOR Falmouth
- LITTLE POND Falmouth
- GREAT POND Falmouth, Sandwich
- GREEN POND Falmouth
- BOURNES POND Falmouth

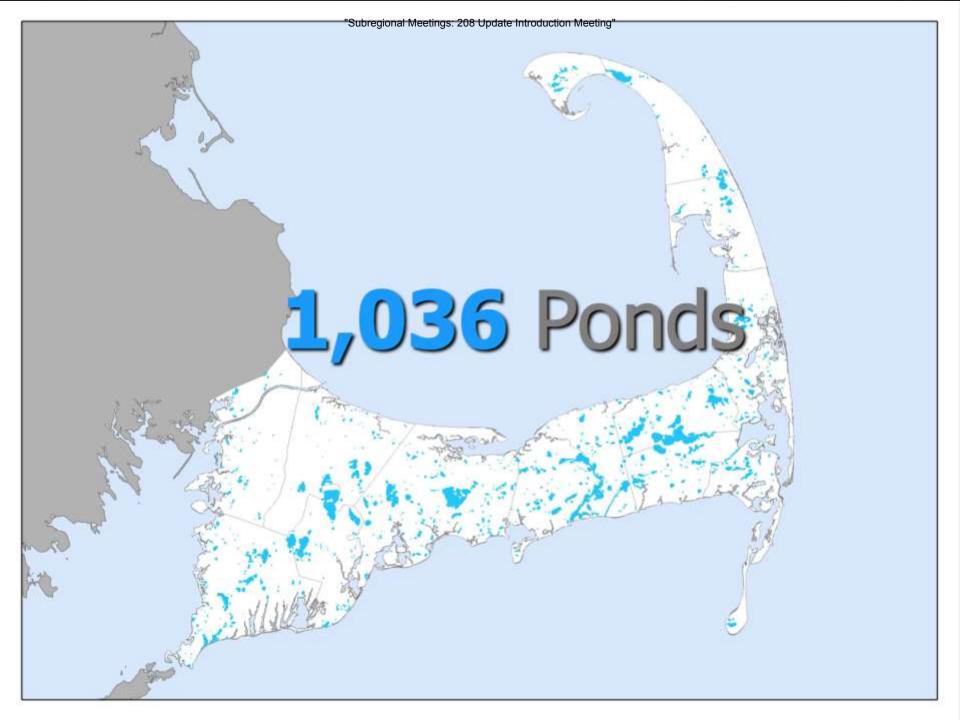
WOODS HOLE GROUP

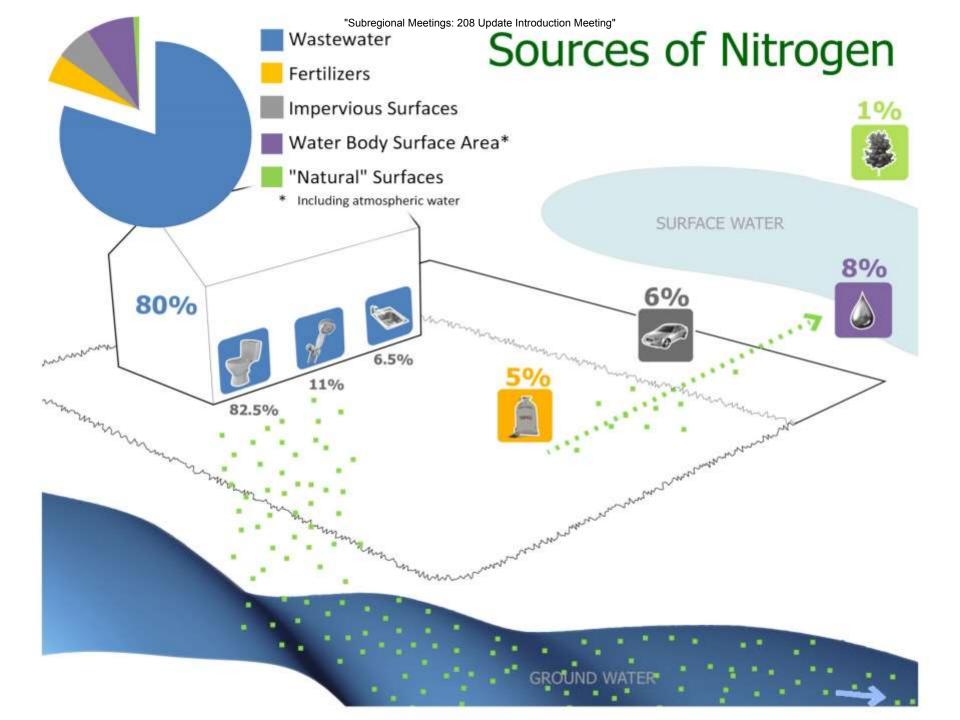
SHARED BY: Falmouth

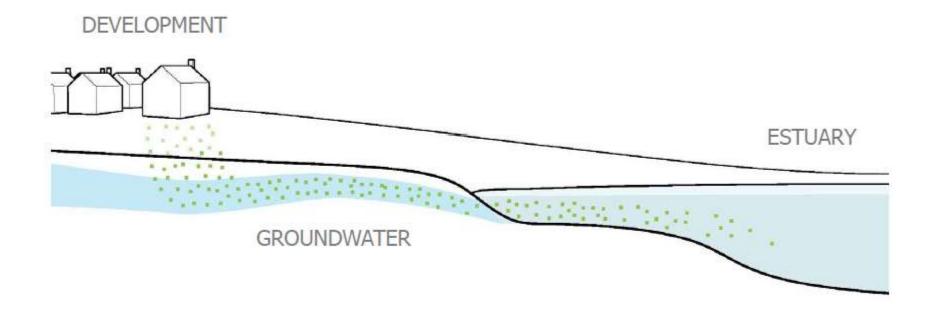
Embayment Watersheds:

- QUISSETT HARBOR Falmouth
- OYSTER POND Falmouth
- SALT POND Falmouth



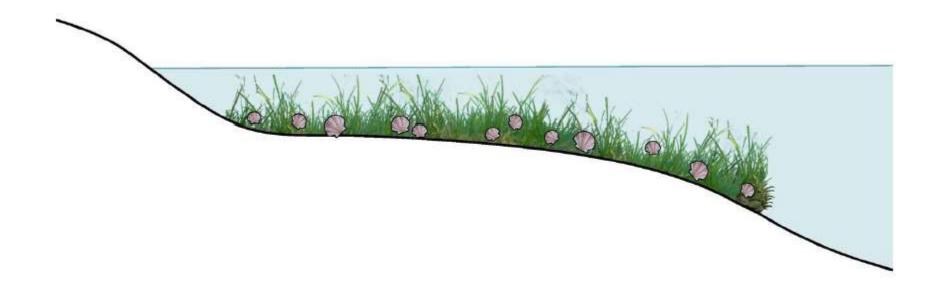




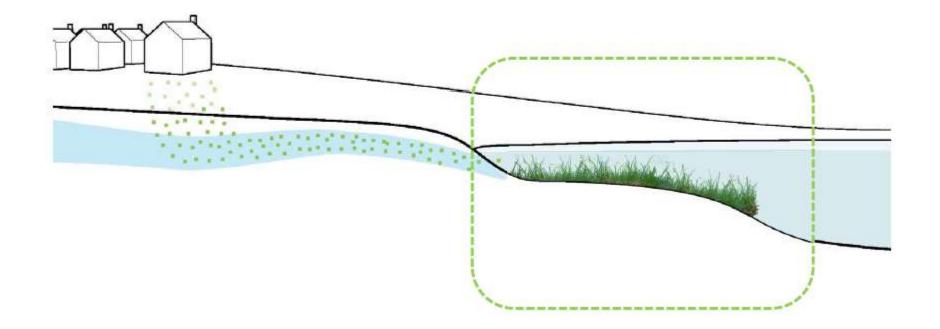


The Nitrogen Story

"Subregional Meetings: 208 Update Introduction Meeting"

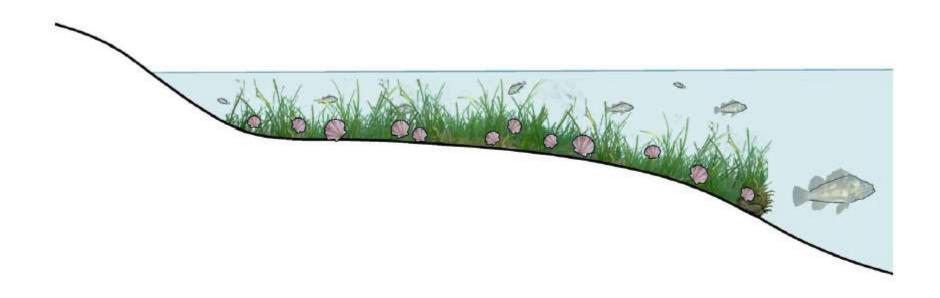


Healthy Shoreline



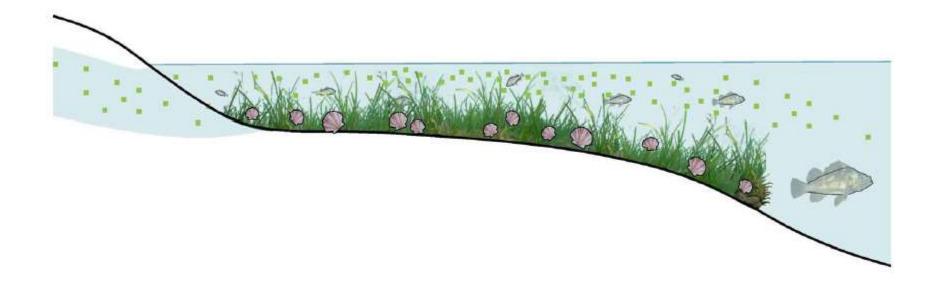
Where Groundwater Meets the Estuaries....

"Subregional Meetings: 208 Update Introduction Meeting"



A Diverse Habitat

"Subregional Meetings: 208 Update Introduction Meeting"



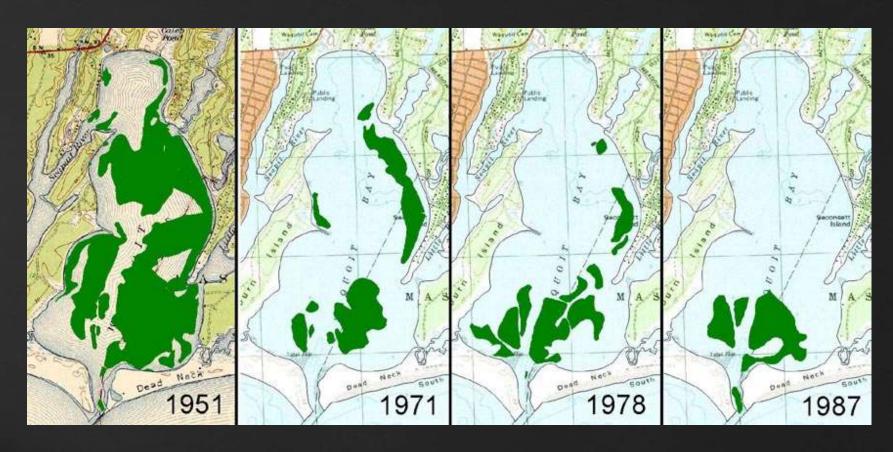
The Nitrogen Enters from Groundwater....



Bournes Pond, Falmouth – May 2013



Coastal Water Quality Problem



Reduction in eel grass Waquoit Bay - Falmouth and Mashpee

Approach to the 208 Plan Update

- Update to 1978 Plan
- Watershed-Based
- Stakeholder Engagement Cape-Wide & Watershed-Based
- Maximize Benefits of Previous Planning
- No Optimal Solution. Diverse Technologies
- Adaptive Technology Development, Pilot Projects, Progress Monitoring
- Coordination with MassDEP and U.S. EPA

Outreach

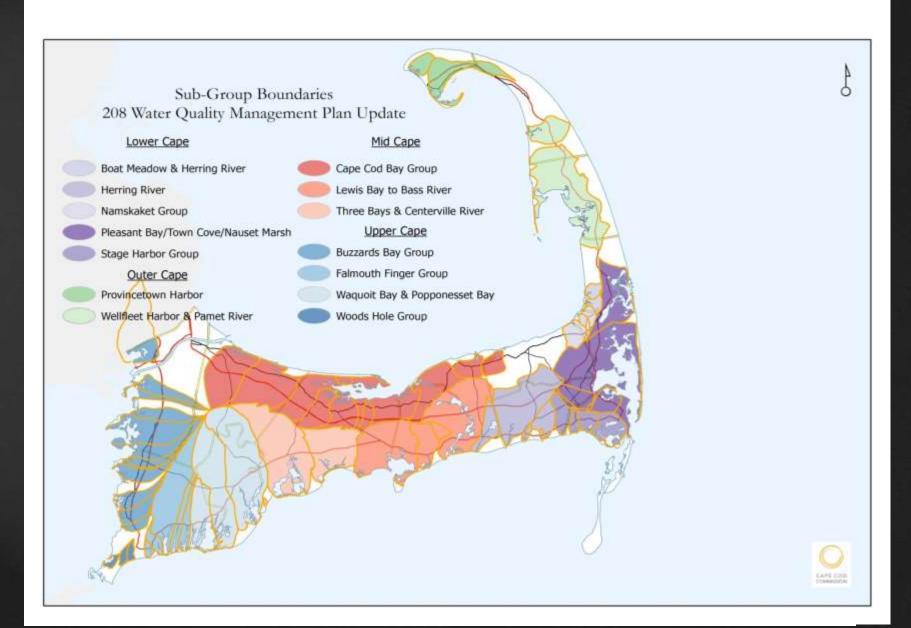
208 Town Meetings

Discussion

- 208 watershed planning process
- Status of local planning to date

Public Meetings – Work Plan & Project Goals

- Outer Cape 7/15
- Upper Cape 7/16
- Lower Cape 7/17
- Mid Cape 7/18



Working Group Participants

- Target of 15-20 members per working group
- 8-10 Designated Seats
 - Local Elected Officials
 - Wastewater Committee Member
 - Town Professional Staff
 - Local Business Owner/Operator
 - Local Environmental Organization
 - Civic Group Member
 - Alternative Technology Interest
 - Development/Real Estate Community
- 5-7 open seats for each group
- Consensus Building Institute to facilitate selection process, decisions made by participants.

Stakeholders Should Expect to...

- Represent and articulate the diverse range of interests and concerns they represent.
- Seek input from constituents, and keep them informed about Working Group proceedings.
- Attend all meetings and participate actively in discussions.
- Engage in respectful and constructive dialogue with other participants
- Seek creative options to resolve wastewater problems.

Stakeholder Workshops

Three meetings for each of 14 Watershed Groups

MEETING 1:

Baseline Conditions & Impairments

MEETING 2:

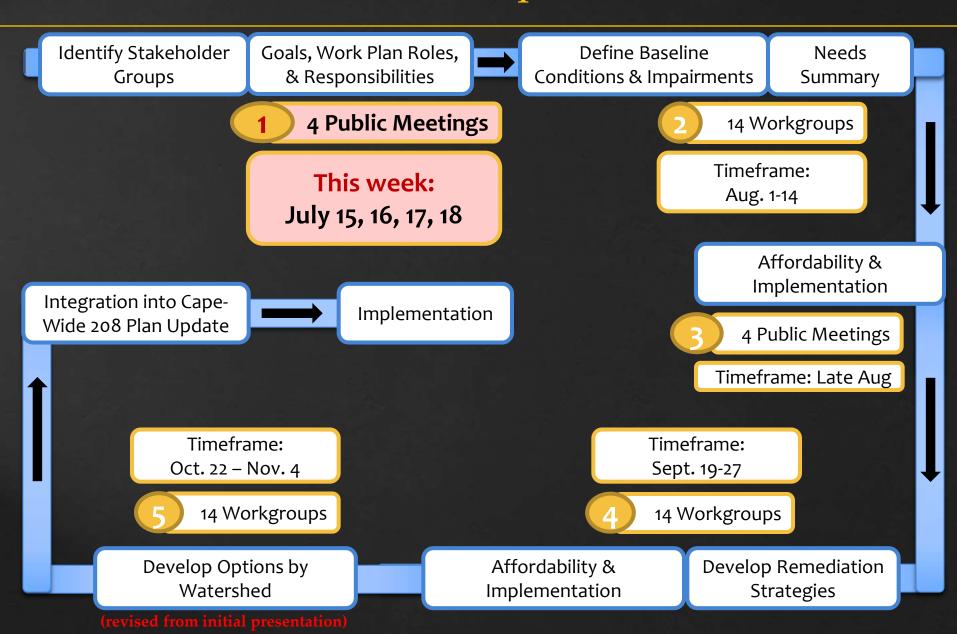
Develop Remediation Strategies

MEETING 3:

Develop Options by Watershed

(revised from initial presentation)

The Workshop Process



Upper Cape Working Groups

Buzzards Bay		
Bourne Town Hall		8:30 a.m – 12: 30 p.m.
Aug. 6	Sept. 30	Oct. 24

Woods Hole Group		
Smith Lab, WHOI		8:30 a.m – 12: 30 p.m.
Aug. 13	Sept. 27	Oct. 22

Falmouth Fingers Group		
Falmouth Town Hall		8:30 a.m – 12: 30 p.m
Aug. 2	Sept. 24	Oct. 25

Waquoit/Popponesset			
Mashpee Town Hall		1:00 – 5:00 p.m.	
Aug. 7	Sept. 25	Oct. 30	

QUESTIONS?



Thinking about this process...

What is our greatest opportunity?

What is our greatest challenge?

Take 15 minutes to talk these over in small groups.

Register to Play Cape₂O



It's something in the water

It's something in the water

communityplanit.org/capecod



CAPE COD COMMISSION

watersheds.capecodcommission.org

Section 208

Area-Wide Water Quality Management Plan Update

Mid Cape Area



watersheds.capecodcommission.org

Why Are We Here?



Prince's Cove, Marstons Mills – May 2013

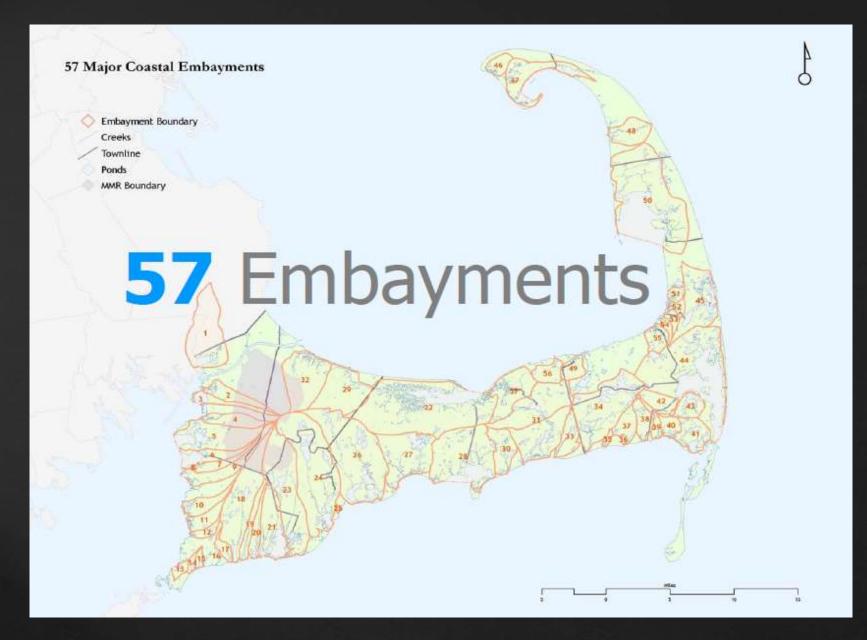
The 208 Plan: What is It?

- Clean Water Act Section 208
- Much more known/done now
- Focus on 21st Century Problems
 Nitrogen: Saline waters
 Phosphorus: Fresh Waters
 - Growth & Title 5 Limitations
- Directed to update the existing plan by the Commonwealth
- Provided \$3 million to complete it

Approach to the 208 Plan Update

- Update to 1978 Plan
- Watershed-Based
- Stakeholder Engagement Cape-Wide & Watershed-Based
- Maximize Benefits of Previous Planning
- No Optimal Solution. Diverse Technologies
- Adaptive Technology Development, Pilot Projects, Progress Monitoring
- Coordination with MassDEP and U.S. EPA
- Support and expedite targeted watershed solutions under existing plans

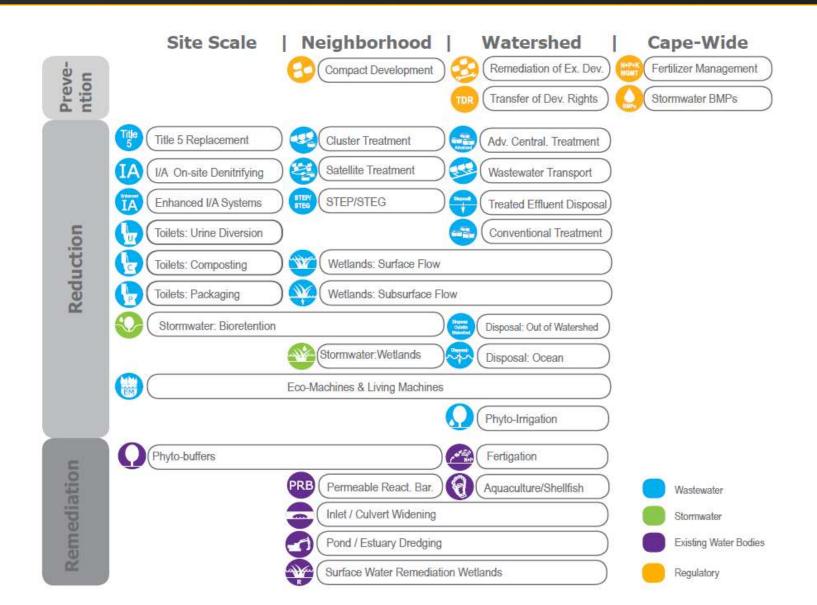


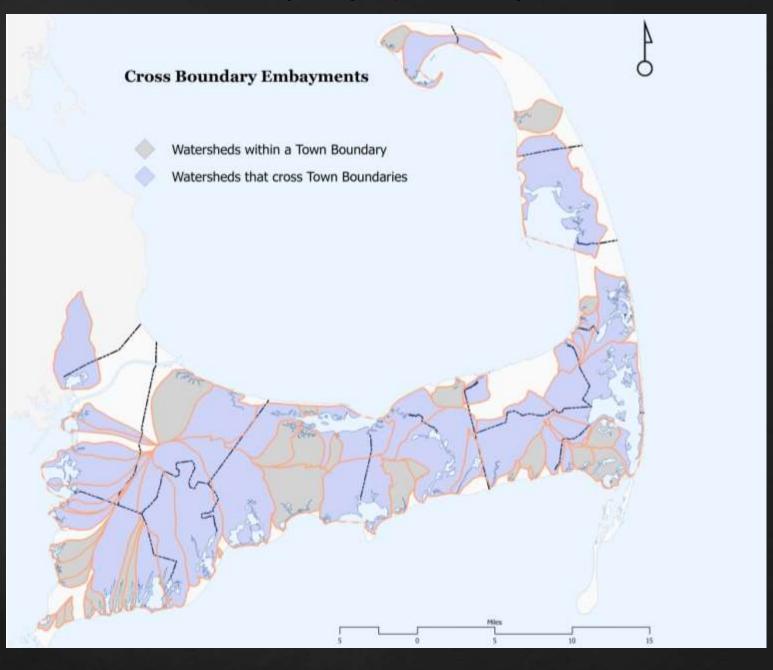




NO Single Solution

Diverse Mix of Technologies

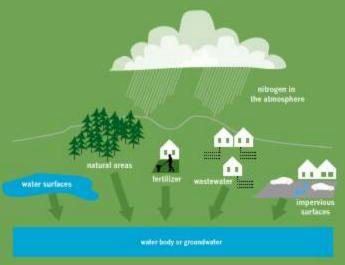




Nitrogen Sources/Facts

NITROGEN

Nitrogen is an element abundant in the environment. Nitrogen is a nutrient that is common in all living things and essential for growth.



CAPE COD NITROGEN FACTS

Nitrogen enters our water bodies from a variety of natural and human sources

Natural 1%

1% from natural areas, from the decomposition of plants or other organisms and from the atmosphere

Water surfaces



8% from surface of water bodies, where nitrogen is deposited from the atmosphere



6% from impervious surfaces, where rain washes surface nitrogen into water bodies

Fertilizers



5% from fertilizers

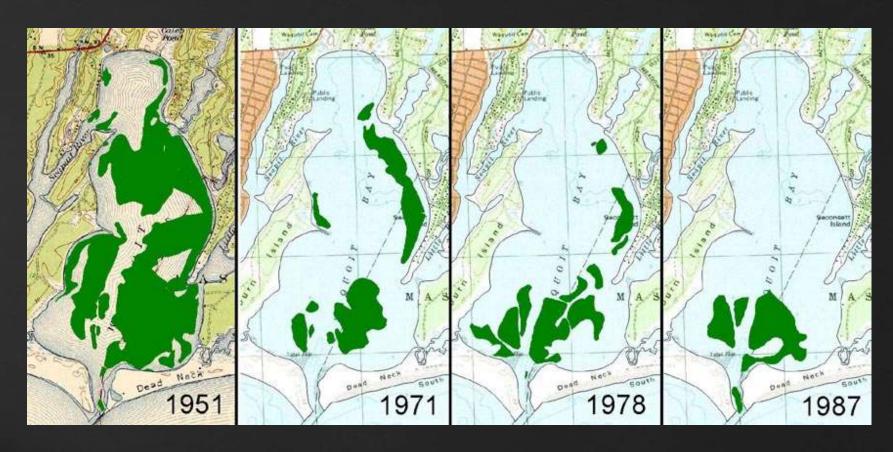
Wastewater



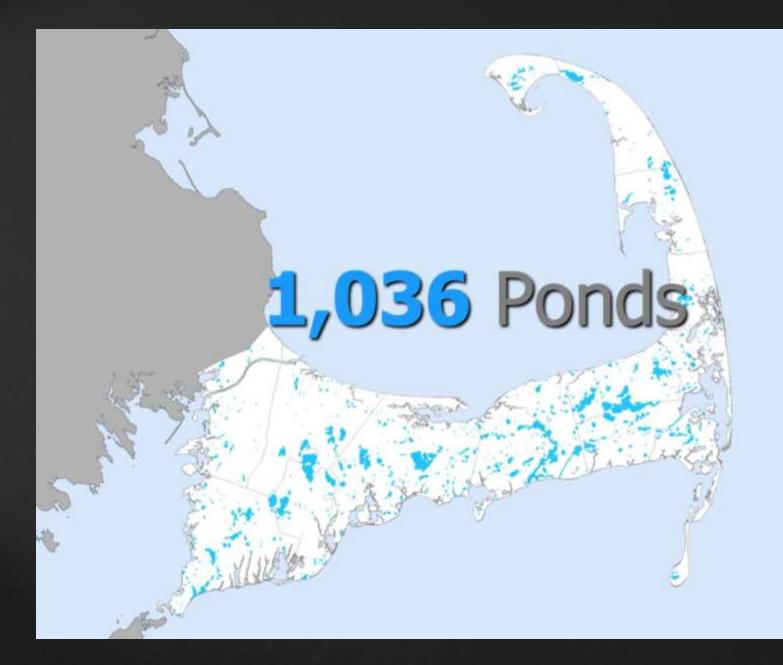
80% from wastewater



Coastal Water Quality Problem



Reduction in eel grass Waquoit Bay - Falmouth and Mashpee



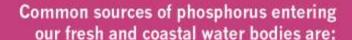
Phosphorus and Freshwater

PHOSPHORUS

Phosphorus is an essential nutrient for all life on earth. Our bodies need phosphorus for healthy bones and teeth.

Plants need phosphorus to grow, but there is a limit. When there is too much phosphorus in a pond, lake or stream, algae may bloom and plant life and fish can die as a result of eutrophication.





Runoff from mining, farming, animal waste, and home lawn fertilizers

Wastewater from our septic tanks -- including human wastes, food residues, detergents, and soaps.

Phosphorus can be reduced to harmless amounts as it travels through varying soils, which act as a filter for phosphorus.



Homes located away from pond shore

Locating development -including septic systems,
lawns, and drainage
from paved surfaces --

away from pond shores helps to protect the quality of our fresh water bodies.



Project Team

Consultants:

AECOM, Consensus Building Institute Emerson College, Engagement Game Lab, Offshoots Productive Landscapes

Staff:

Cape Cod Commission

Stakeholder Engagement

CAPE-WIDE

Advisory Board
Communications Strategy
Communications Campaign
Benchmarking & Assessing
Program Branding

Regulatory Coordination

Technical Advisory
Committee

WATERSHED

Stakeholder Communication
Workshop Facilitation
Capacity Building
Watershed Status Portal

watersheds.capecodcommission.org

208 Advisory Board

Meets 3rd Tuesday of each month

Members:

Robert Churchill: Churchill Associates

Robert Lawton: Interim Harwich Town Administrator, Former Yarmouth Admin

Wendy Northcross: CEO of the Cape Cod Chamber of Commerce

Sheila Vanderhoef: Eastham Town Administrator

Virginia Valiela: Member- Falmouth Water Quality Mngmt Committee

Robin Wilkins: Former Town of Harwich Selectman

Regulatory, Legal & Institutional Work Group

Members:

Cape Cod Commission

MassDEP

U.S. EPA

U.S. Army Corps of Engineers

Regulatory Flexibility, Financial Affordability

- Provides the basis for state & federal support
- Seek regulatory flexibility for innovative and shared solutions
- Seek funding covering 50% of capital costs

New Tools/Resources

The Commission is developing a set of innovative tools to assist with decision making.

- Watershed MVP
- Systems Dynamics Model
- Green Infrastructure Site Selection Process
- Game-based Planning

Outreach

208 Town Meetings

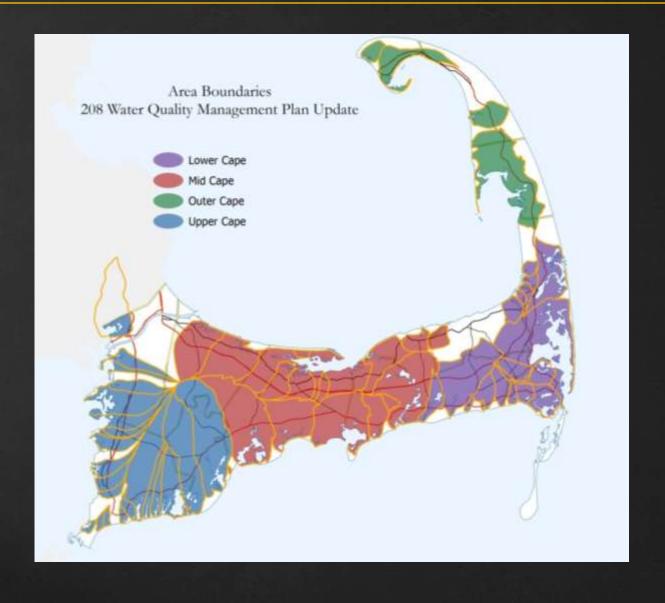
Discussion

- 208 watershed planning process
- Status of local planning to date

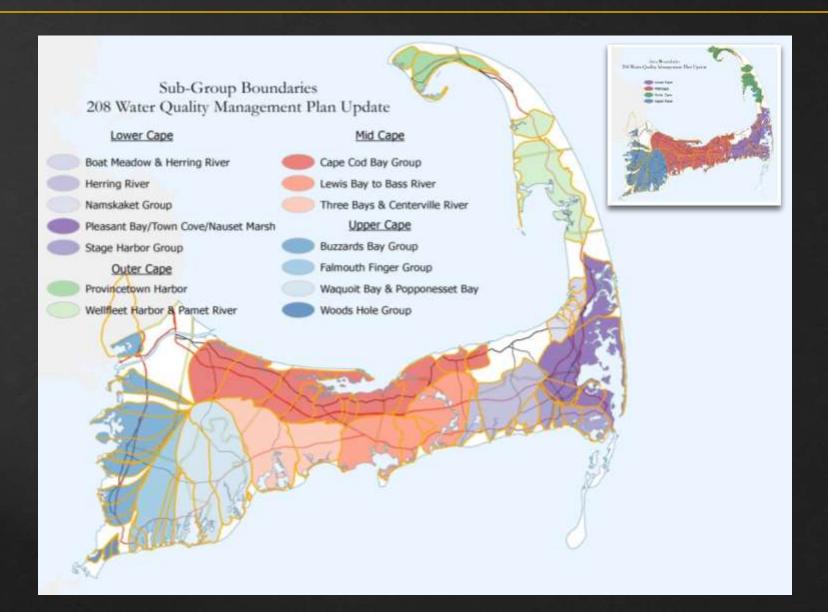
Public Meetings – Work Plan & Project Goals

- Outer Cape 7/15
- Upper Cape 7/16
- Lower Cape 7/17
- Mid Cape 7/18

Four Regions



Four Regions Into 14 Working Groups







"Subregional Meetings: 208 Update Introduction Meeting" TY PLAN UPDATE

Mid Cape Area



Three Mid Cape Working Groups

THREE BAYS & CENTERVILLE RIVER

SHARED BY: Barnstable, Mashpee, Sandwich

Embayment Watersheds:

- RUSHY MARSH POND Barnstable
- THREE BAYS Barnstable, Mashpee, Sandwich
- CENTERVILLE RIVER Barnstable

LEWIS BAY TO BASS RIVER

SHARED BY: Barnstable, Brewster, Dennis, Yarmouth

Embayment Watersheds:

- LEWIS BAY Barnstable, Yarmouth
- PARKERS RIVER Yarmouth
- LONG POND Yarmouth
- BASS RIVER Brewster, Dennis, Yarmouth

•

CAPE COD BAY GROUP

SHARED BY: Barnstable, Brewster, Dennis, Sandwich, Yarmouth

Embayment Watersheds:

- SANDWICH HARBOR Sandwich
- SCORTON HARBOR Sandwich
- BARNSTABLE HARBOR Barnstable, Sandwich, Yarmouth
- CHASE GARDEN CREEK Dennis, Yarmouth
- SESUIT HARBOR Dennis
- QUIVETT CREEK Brewster, Dennis

Working Group Participants

- Target of 15-20 members per working group
- 8-10 Designated Seats
 - Local Elected Officials
 - Wastewater Committee Member
 - Town Professional Staff
 - Local Business Owner/Operator
 - Local Environmental Organization
 - Civic Group Member
 - Alternative Technology Interest
 - Development/Real Estate Community
- 5-7 open seats for each group
- Consensus Building Institute to facilitate selection process, decisions made by participants.

Stakeholders Should Expect to...

- Represent and articulate the diverse range of interests and concerns they represent.
- Seek input from constituents, and keep them informed about Working Group proceedings.
- Attend all meetings and participate actively in discussions.
- Engage in respectful and constructive dialogue with other participants
- Seek creative options to resolve wastewater problems.

Stakeholder Workshops

Three meetings for each of 14 Watershed Groups

MEETING 1:

Baseline Conditions & Impairments

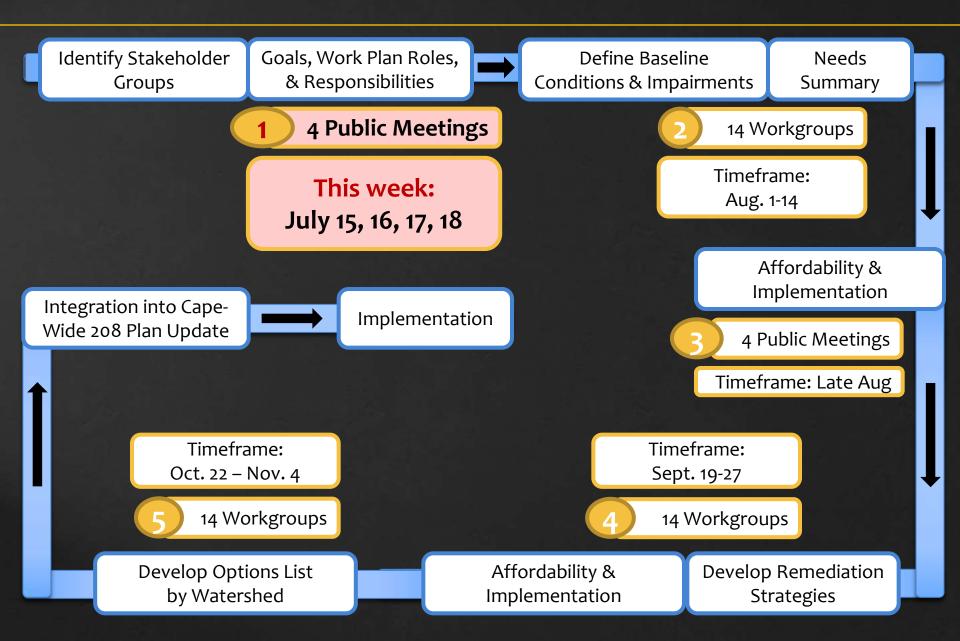
MEETING 2:

Develop Remediation Strategies

MEETING 3:

Develop Options List by Watershed

The 208 Process - Year 1



Mid Cape Working Groups

Cape Cod Bay Group

Cape Cod Commission 8:30 a.m – 12: 30 p.m

Aug. 13 Sept. 24 Oct. 30

Three Bays & Centerville River

COMM Fire Headquarters

8:30 a.m –
12: 30 p.m

Aug. 14 Sept. 19 Nov. 4

Lewis Bay to Bass River

C&I Association of Realtors
Mid Tech Drive, West Yarmouth

8:30 a.m –
12: 30 p.m

Aug. 14 Sept. 26 Oct. 29

QUESTIONS?



Thinking about this process...

What is our greatest opportunity?

What is our greatest challenge?

Take 15 minutes to talk these over in small groups.

Register to Play Cape₂O



communityplanit.org/capecod



CAPE COD COMMISSION

watersheds.capecodcommission.org

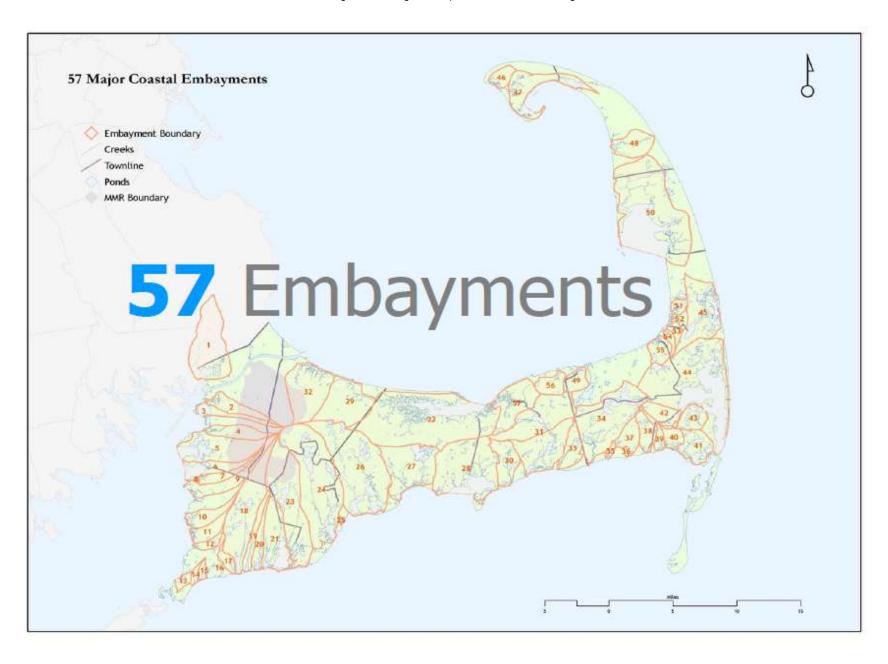
Section 208

Area-Wide Water Quality Management Plan Update

Outer Cape Area



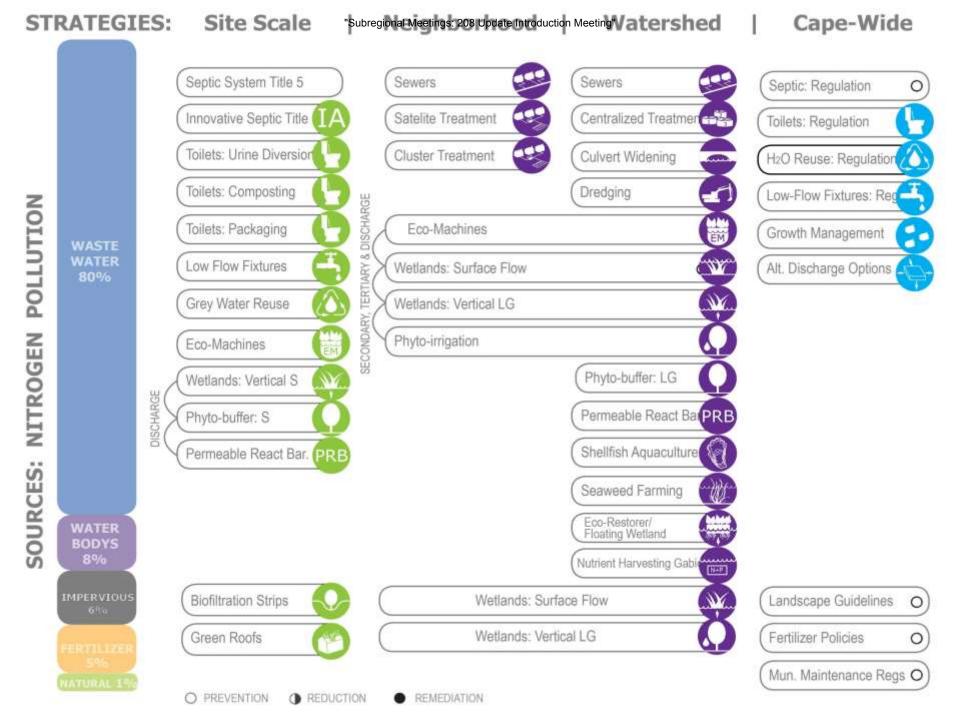






NO Single Solution

No "silver bullet" to fit multiple needs: Infrastructure
AND
Green Infrastructure &
Alternative Approaches



Stakeholder Engagement

CAPE-WIDE

Advisory Board
Communications Strategy
Communications Campaign
Benchmarking & Assessing
Program Branding

Regulatory Coordination

Technical Advisory
Committee

WATERSHED

Stakeholder Communication
Workshop Facilitation
Capacity Building
Watershed Status Portal

watersheds.capecodcommission.org

Project Team

Consultants:

AECOM, Consensus Building Institute Emerson College, Engagement Game Lab, Offshoots Productive Landscapes

Staff:

Cape Cod Commission

Advisory Board

June 18th – First Meeting

Members:

Robert Churchill Churchill Associates

Robert Lawton former Yarmouth Town Administrator

Wendy Northcross CEO of the Cape Cod Chamber of Commerce

Sheila Vanderhoef Eastham Town Administrator

Virginia Valiela Member- Falmouth Water Quality Mngmt Committee

Robin Wilkins former Town of Harwich Selectman

Regulatory, Legal & Institutional Work Group

Members:

Cape Cod Commission

MassDEP

U.S. EPA

U.S. Army Corps of Engineers

Financial/Regulatory Goals

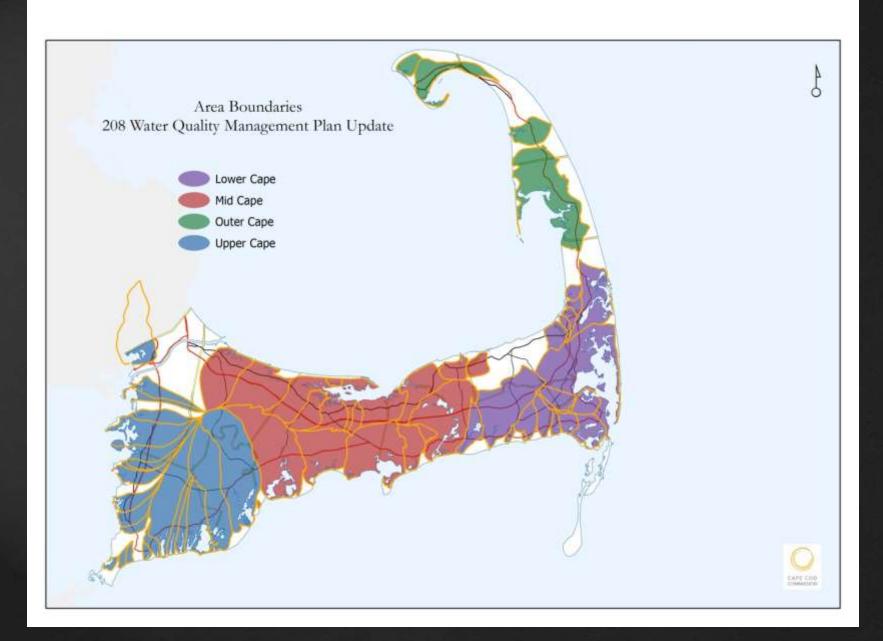
Work with state and federal partners for:

- Regulatory flexibility
- Funding supporting 50% of capital costs

New Tools/Resources

The Commission is developing a set of innovative tools to assist with decision making.

- Watershed MVP
- Systems Dynamics Model
- Green Infrastructure Site Selection Process
- Game-based Planning

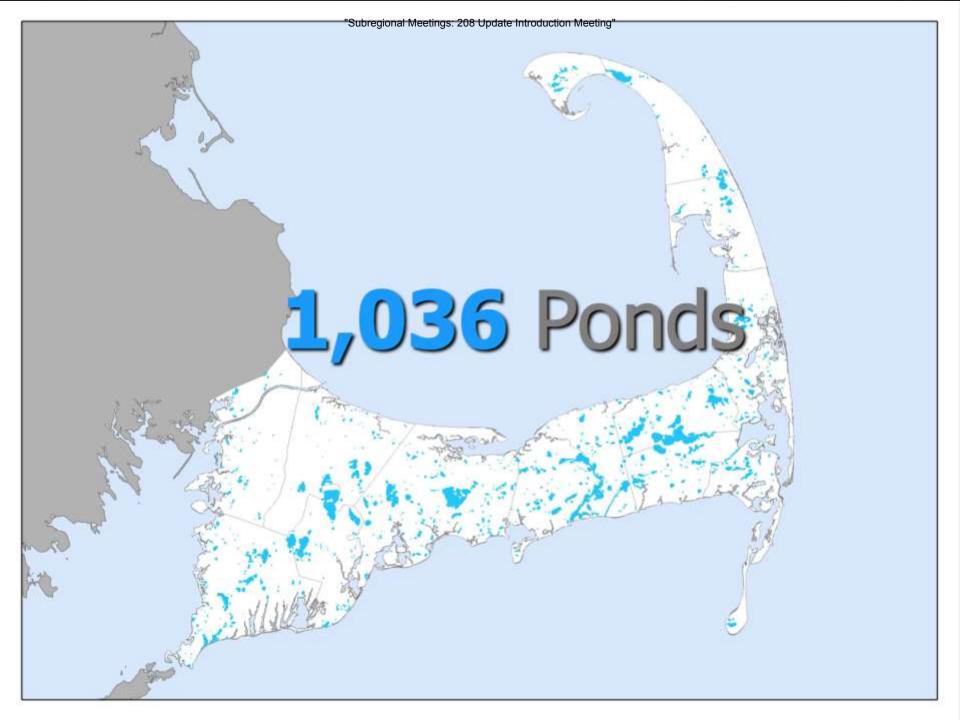


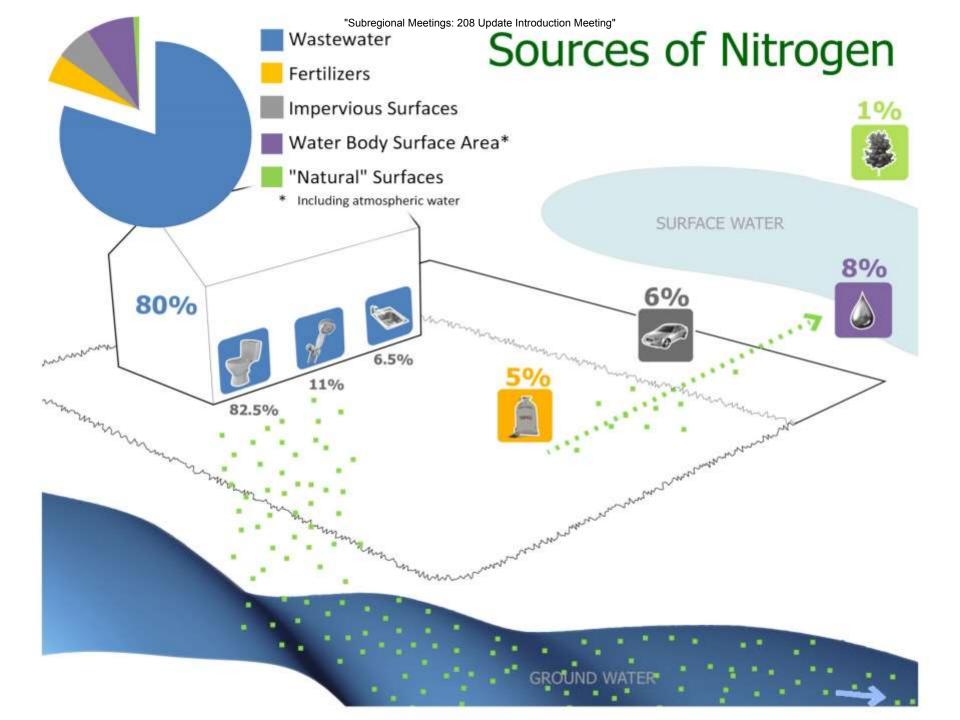


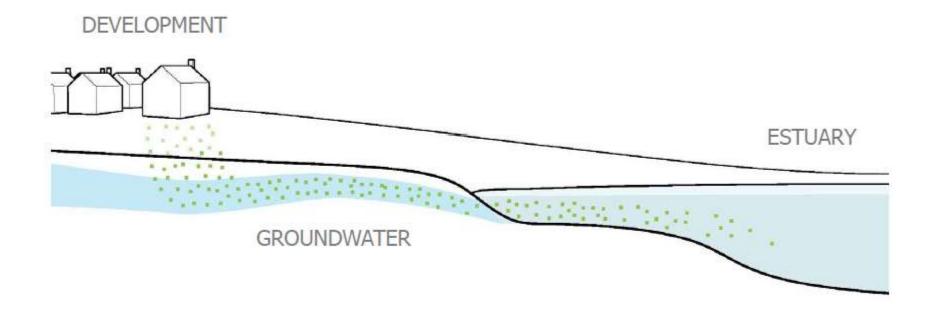
CAPE COD Outer Cape Area





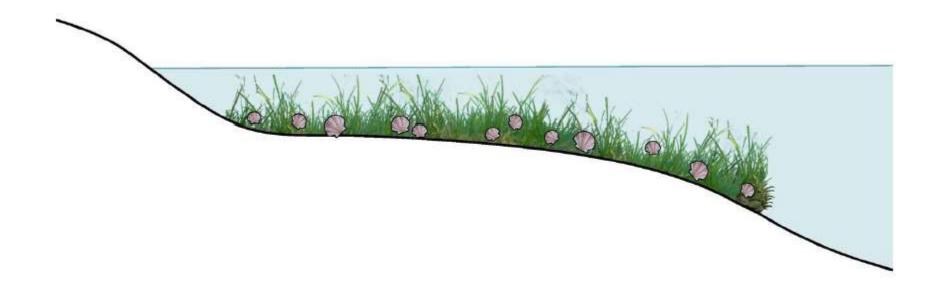




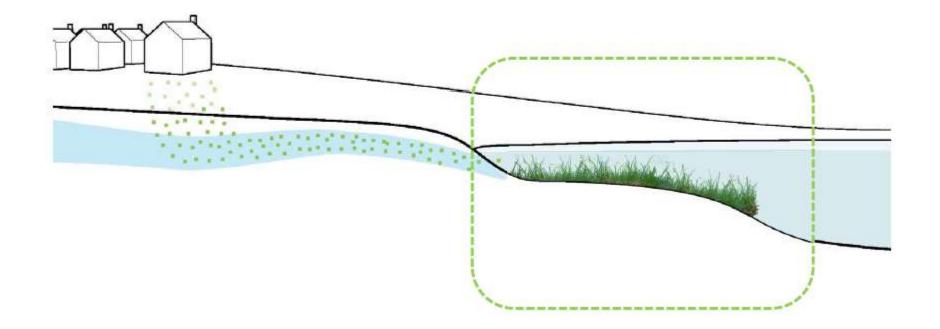


The Nitrogen Story

"Subregional Meetings: 208 Update Introduction Meeting"

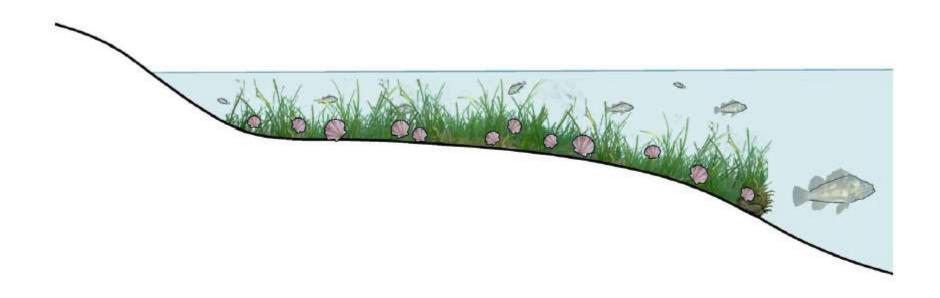


Healthy Shoreline



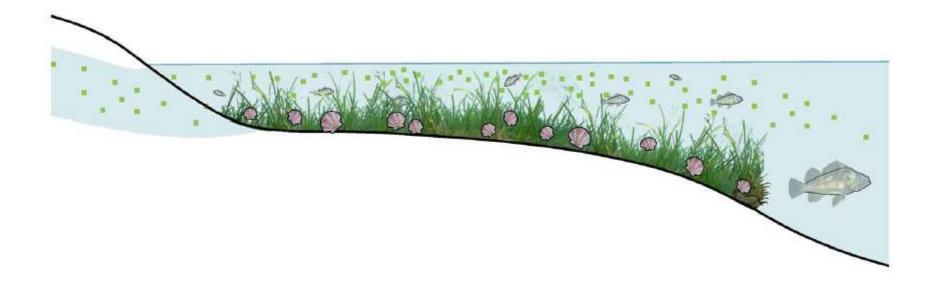
Where Groundwater Meets the Estuaries....

"Subregional Meetings: 208 Update Introduction Meeting"



A Diverse Habitat

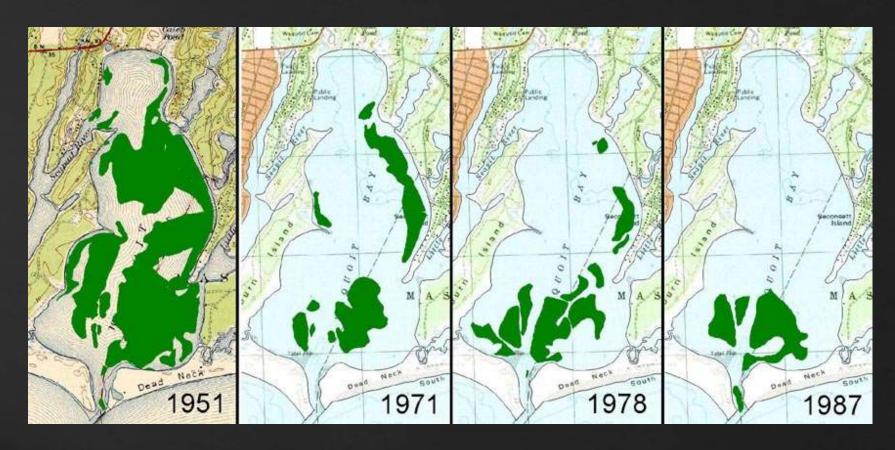
"Subregional Meetings: 208 Update Introduction Meeting"



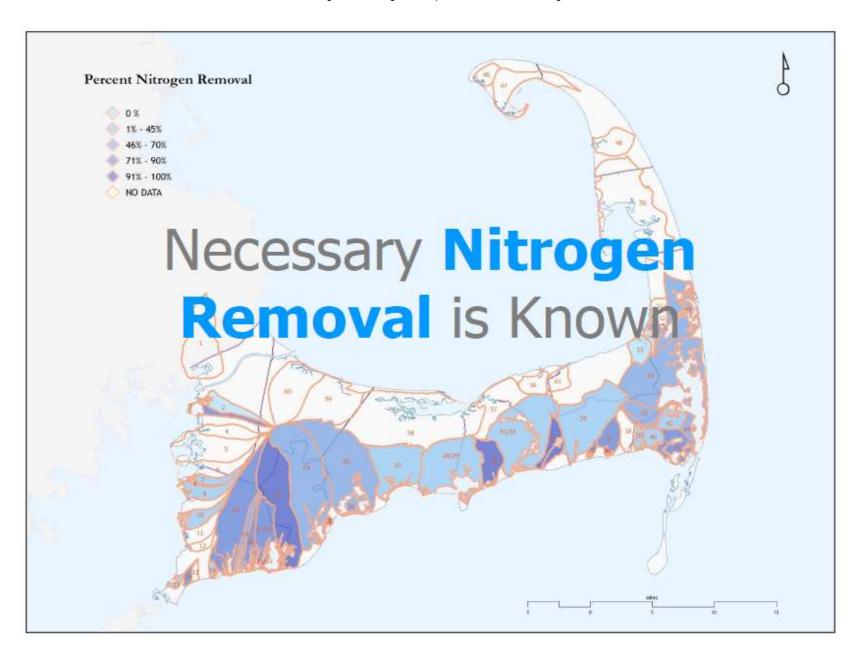
The Nitrogen Enters from Groundwater....



Coastal Water Quality Problem



Reduction in eel grass Waquoit Bay - Falmouth and Mashpee



Approach to the 208 Plan Update

- Update to 1978 Plan
- Watershed-Based
- Stakeholder Engagement Cape-Wide & Watershed-Based
- Maximize Benefits of Previous Planning
- No Optimal Solution. Diverse Technologies
- Adaptive Technology Development, Pilot Projects, Progress Monitoring
- Coordination with MassDEP and U.S. EPA

Outreach

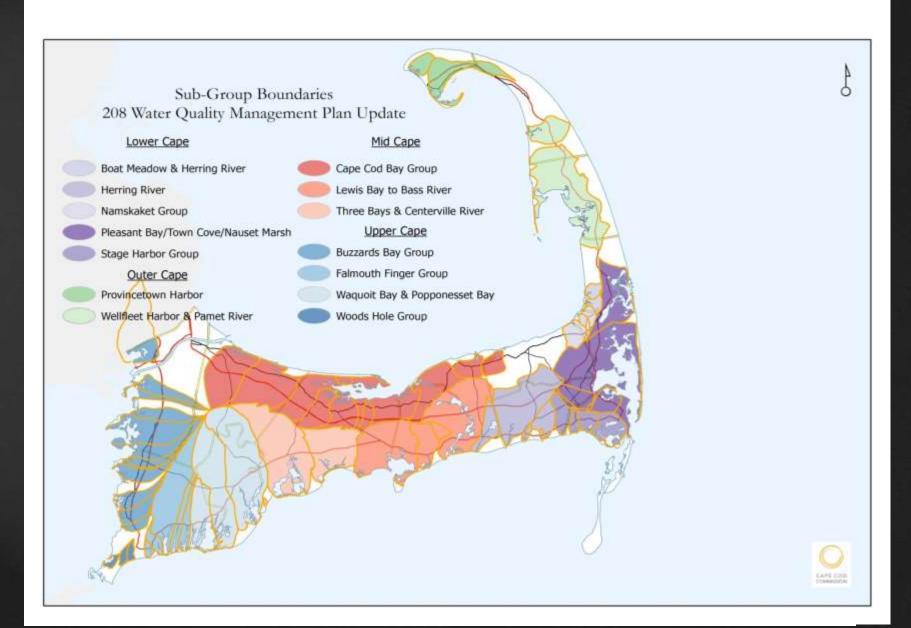
208 Town Meetings

Discussion

- 208 watershed planning process
- Status of local planning to date

Public Meetings – Work Plan & Project Goals

- Outer Cape 7/15
- Upper Cape 7/16
- Lower Cape 7/17
- Mid Cape 7/18



Working Group Participants

- Target of 15-20 members per working group
- 8-10 Designated Seats
 - Local Elected Officials
 - Wastewater Committee Member
 - Town Professional Staff
 - Local Business Owner/Operator
 - Local Environmental Organization
 - Civic Group Member
 - Alternative Technology Interest
 - Development/Real Estate Community
- 5-7 open seats for each group
- Consensus Building Institute to facilitate selection process, decisions made by participants.

Stakeholders Should Expect to...

- Represent and articulate the diverse range of interests and concerns of the constituencies they represent.
- Seek input from constituents, and keep them informed about the discussions and proceedings of the Working Group.
- Attend all meetings and participate actively in discussions.
- Engage in respectful and constructive dialogue with other participants, and seek creative options to resolve wastewater problems that respond to their own interests as well as other viewpoints.

Stakeholder Workshops

Three meetings for each of 14 Watershed Groups

MEETING 1:

Baseline Conditions & Impairments

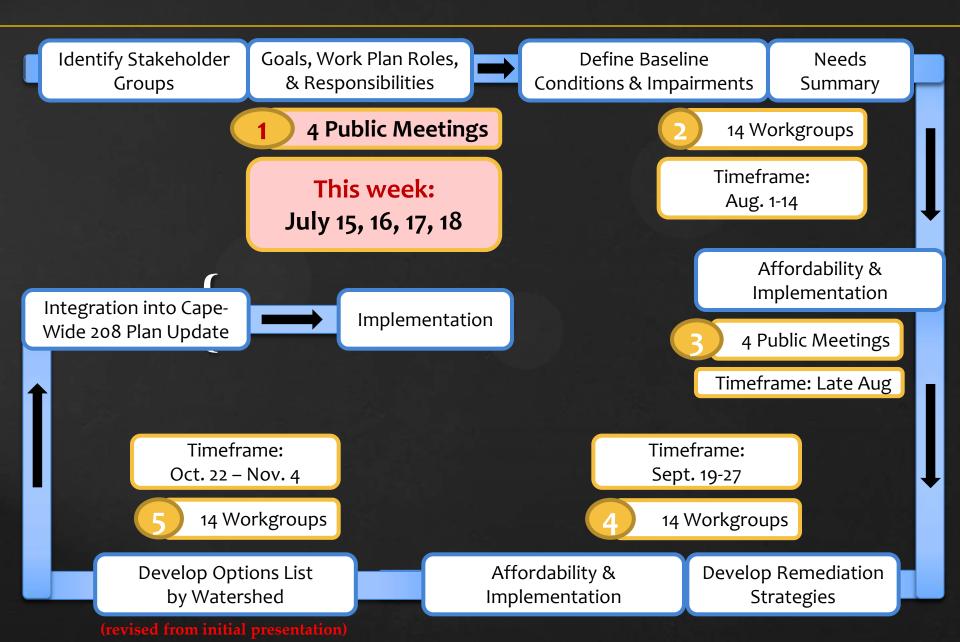
MEETING 2:

Develop Remediation Strategies

MEETING 3:

Preferred Plans by Watershed

The 208 Process - Year 1

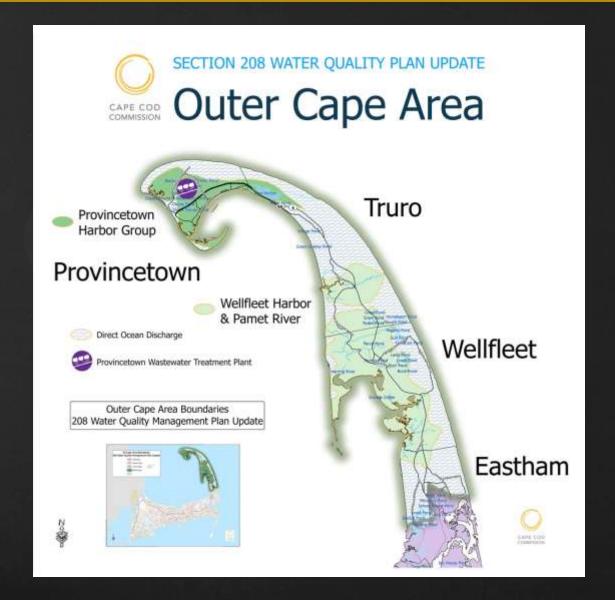


Outer Cape Working Groups

Provincetown Harbor Group			
Provincetown Harbor Group Judge Welsh Room		8:30 a.m – 12: 30 p.m.	
Aug. 1	Sept. 24	Oct. 29	

Wellfleet Harbor & Pamet River Group		
Wellfleet Council on Aging		1 – 5 p.m.
Aug. 6	Sept. 25	Oct. 30

QUESTIONS?



Thinking about this process...

What is our greatest opportunity?

What is our greatest challenge?

Take 15 minutes to talk these over in small groups.

Register to Play Cape₂O



It's something in the water

It's something in the water

http://communityplanit.org/capecod

'Subregional Meetings: 208 Update Introduction Meeting'



CAPE COD
COMMISSION

Section 208

Area-Wide Water Quality Management Plan Update

Lower Cape Area



watersheds.capecodcommission.org

Why Are We Here?



Round Cove, Harwich – June 2013

The 208 Plan: What is It?

- Clean Water Act Section 208
- Much more known/done now
- Focus on 21st Century Problems

Nitrogen: Saline waters

Phosphorus: Fresh Waters

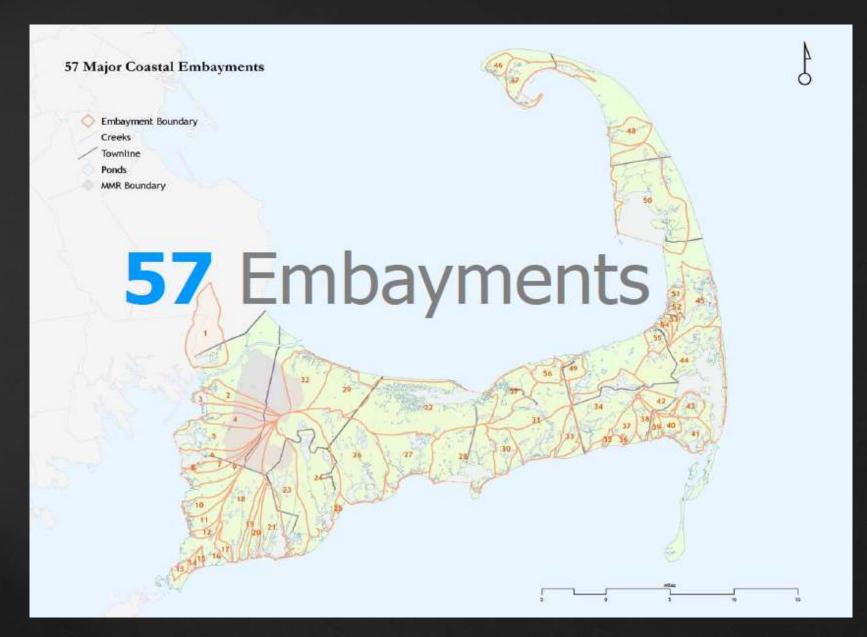
Growth & Title 5 Limitations

- Directed to update the existing plan by the Commonwealth
- Provided \$3 million over three years to complete it

Approach to the 208 Plan Update

- Update to 1978 Plan
- Watershed-Based
- Stakeholder Engagement Cape-Wide & Watershed-Based
- Maximize Benefits of Previous Planning
- No Optimal Solution. Diverse Technologies
- Adaptive Technology Development, Pilot Projects, Progress Monitoring
- Coordination with MassDEP and U.S. EPA
- Support and expedite targeted watershed solutions under existing plans

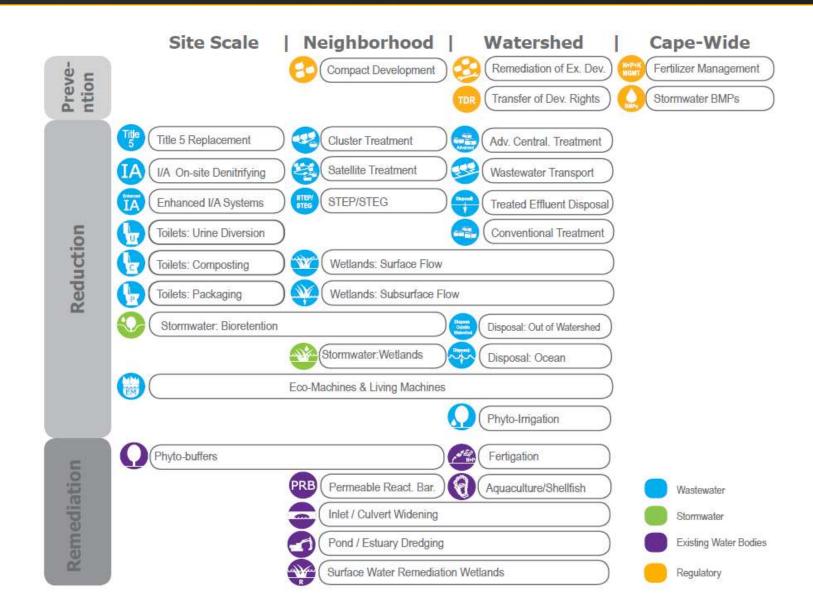


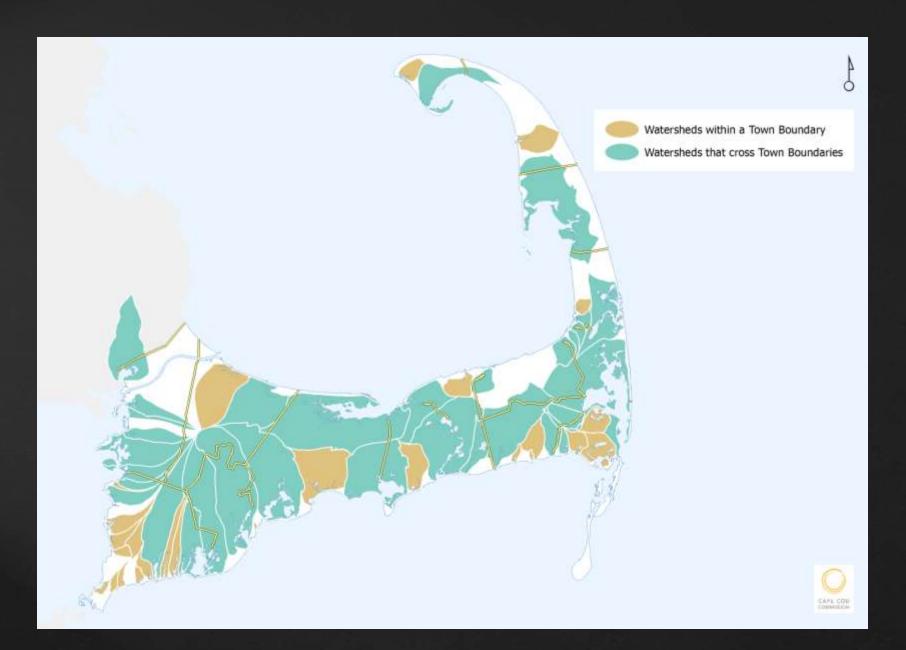




NO Single Solution

Diverse Mix of Technologies

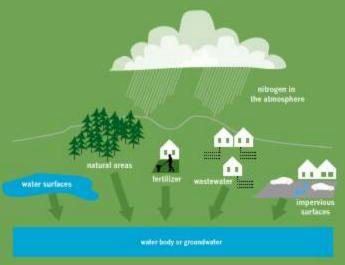




Nitrogen Sources/Facts

NITROGEN

Nitrogen is an element abundant in the environment. Nitrogen is a nutrient that is common in all living things and essential for growth.



CAPE COD NITROGEN FACTS

Nitrogen enters our water bodies from a variety of natural and human sources

Natural 1%

1% from natural areas, from the decomposition of plants or other organisms and from the atmosphere

Water surfaces



8% from surface of water bodies, where nitrogen is deposited from the atmosphere



6% from impervious surfaces, where rain washes surface nitrogen into water bodies

Fertilizers



5% from fertilizers

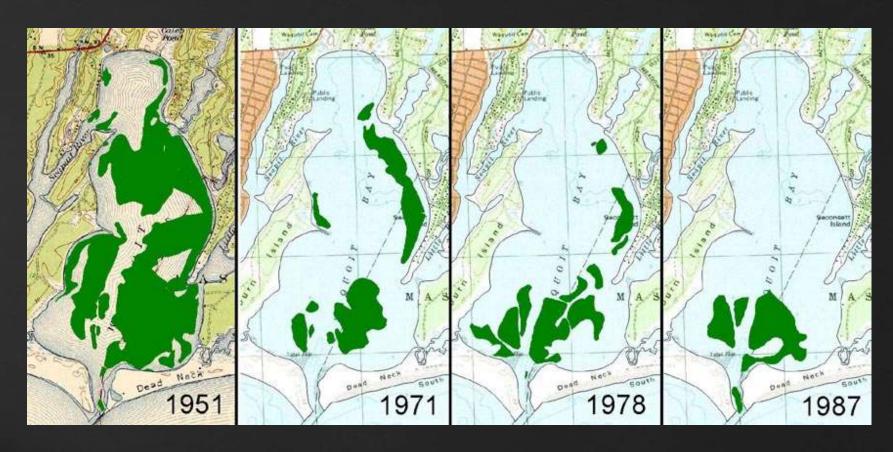
Wastewater



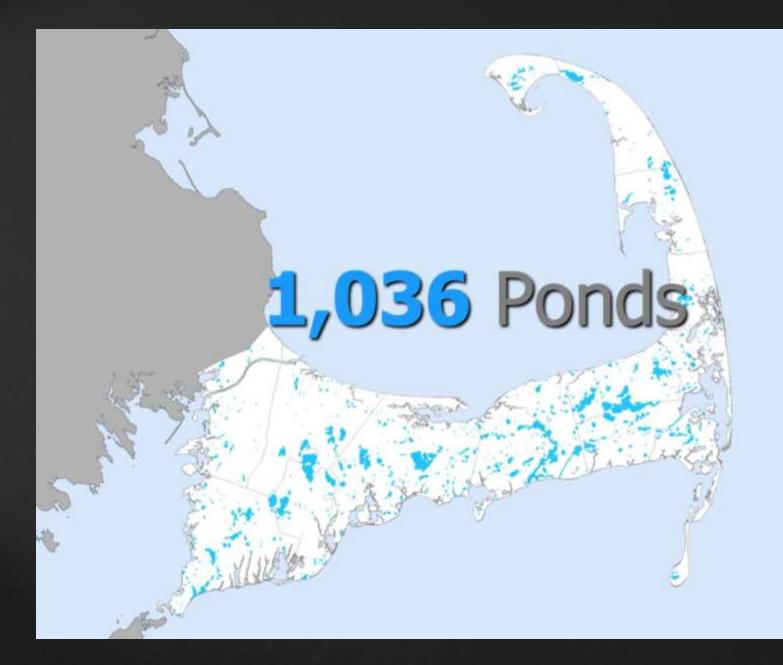
80% from wastewater



Coastal Water Quality Problem



Reduction in eel grass Waquoit Bay - Falmouth and Mashpee



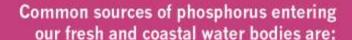
Phosphorus and Freshwater

PHOSPHORUS

Phosphorus is an essential nutrient for all life on earth. Our bodies need phosphorus for healthy bones and teeth.

Plants need phosphorus to grow, but there is a limit. When there is too much phosphorus in a pond, lake or stream, algae may bloom and plant life and fish can die as a result of eutrophication.





Runoff from mining, farming, animal waste, and home lawn fertilizers

Wastewater from our septic tanks -- including human wastes, food residues, detergents, and soaps.

Phosphorus can be reduced to harmless amounts as it travels through varying soils, which act as a filter for phosphorus.



Homes located away from pond shore

Locating development -including septic systems,
lawns, and drainage
from paved surfaces --

away from pond shores helps to protect the quality of our fresh water bodies.



Project Team

Consultants:

AECOM, Consensus Building Institute Emerson College, Engagement Game Lab, Offshoots Productive Landscapes

Staff:

Cape Cod Commission

Stakeholder Engagement

CAPE-WIDE

Advisory Board
Communications Strategy
Communications Campaign
Benchmarking & Assessing
Program Branding

Regulatory Coordination

Technical Advisory
Committee

WATERSHED

Stakeholder Communication
Workshop Facilitation
Capacity Building
Watershed Status Portal

watersheds.capecodcommission.org

208 Advisory Board

Meets 3rd Tuesday of each month

Members:

Robert Churchill: Churchill Associates

Robert Lawton: Interim Harwich Town Administrator, Former Yarmouth Admin

Wendy Northcross: CEO of the Cape Cod Chamber of Commerce

Sheila Vanderhoef: Eastham Town Administrator

Virginia Valiela: Member- Falmouth Water Quality Mngmt Committee

Robin Wilkins: Former Town of Harwich Selectman

Regulatory, Legal & Institutional Work Group

Members:

Cape Cod Commission

MassDEP

U.S. EPA

U.S. Army Corps of Engineers

Regulatory Flexibility, Financial Affordability

- Provides the basis for state & federal support
- Seek regulatory flexibility for innovative and shared solutions
- Seek funding covering 50% of capital costs

New Tools/Resources

The Commission is developing a set of innovative tools to assist with decision making.

- Watershed MVP
- Systems Dynamics Model
- Green Infrastructure Site Selection Process
- Game-based Planning

Outreach

208 Town Meetings

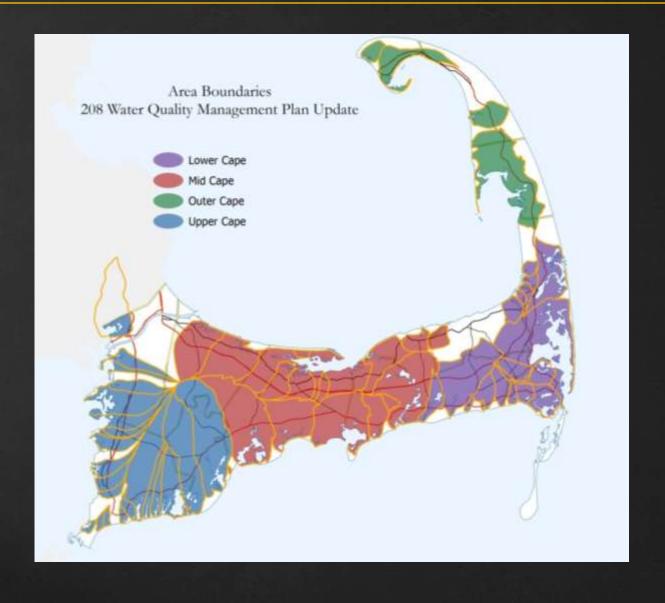
Discussion

- 208 watershed planning process
- Status of local planning to date

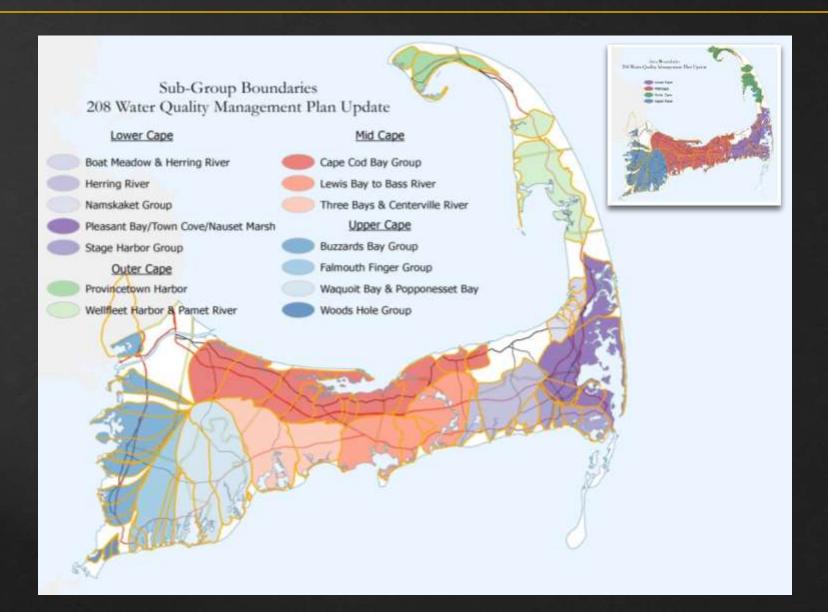
Public Meetings – Work Plan & Project Goals

- Outer Cape 7/15
- Upper Cape 7/16
- Lower Cape 7/17
- Mid Cape 7/18

Four Regions



Four Regions Into 14 Working Groups



Five Lower Cape Working Groups

HERRING RIVER, HARWICH

SHARED BY: Brewster, Dennis, Yarmouth

Embayment Watersheds:

- SWAN RIVER Dennis, Harwich
- HERRING RIVER Brewster, Dennis, Harwich
- ALLEN HARBOR Harwich
- WYCHMERE HARBOR Harwich
- SAQUATUCKET Harwich

STAGE HARBOR GROUP

SHARED BY: Chatham, Harwich

Embayment Watersheds

- RED RIVER Chatham, Harwich
- TAYLORS POND/MILL CREEK Chatham
- SULFER SPRINGS/BUCKS CREEK Chatham
- STAGE HARBOR Chatham

NAMSKAKET GROUP

SHARED BY :Brewster, Eastham, Orleans

Embayment Watersheds

- NAMSKAKET CREEK Brewster, Orleans
- LITTLE NAMSKAKET CREEK Brewster, Orleans
- ROCK HARBOR Eastham, Orleans

BOAT MEADOW & HERRING RIVER

SHARED BY: Eastham, Orleans

Embayment Watersheds

- BOAT MEADOW RIVER Eastham, Orleans
- HERRING RIVER Eastham

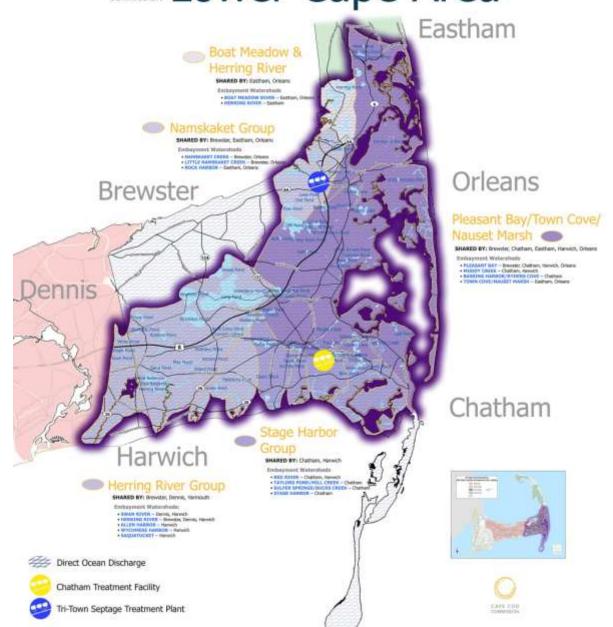
PLEASANT BAY/TOWN COVE/NAUSET MARSH

SHARED BY: Brewster, Chatham, Eastham, Harwich, Orleans

Embayment Watersheds

- PLEASANT BAY Brewster, Chatham, Harwich, Orleans
- MUDDY CREEK Chatham, Harwich
- BASSING HARBOR/RYDERS COVE Chatham
- TOWN COVE/NAUSET MARSH Eastham, Orleans





Working Group Participants

- Target of 15-20 members per working group
- 8-10 Designated Seats
 - Local Elected Officials
 - Wastewater Committee Member
 - Town Professional Staff
 - Local Business Owner/Operator
 - Local Environmental Organization
 - Civic Group Member
 - Alternative Technology Interest
 - Development/Real Estate Community
- 5-7 open seats for each group
- Consensus Building Institute to facilitate selection process, decisions made by participants.

Stakeholders Should Expect to...

- Represent and articulate the diverse range of interests and concerns they represent.
- Seek input from constituents, and keep them informed about Working Group proceedings.
- Attend all meetings and participate actively in discussions.
- Engage in respectful and constructive dialogue with other participants
- Seek creative options to resolve wastewater problems.

Stakeholder Workshops

Three meetings for each of 14 Watershed Groups

MEETING 1:

Baseline Conditions & Impairments

MEETING 2:

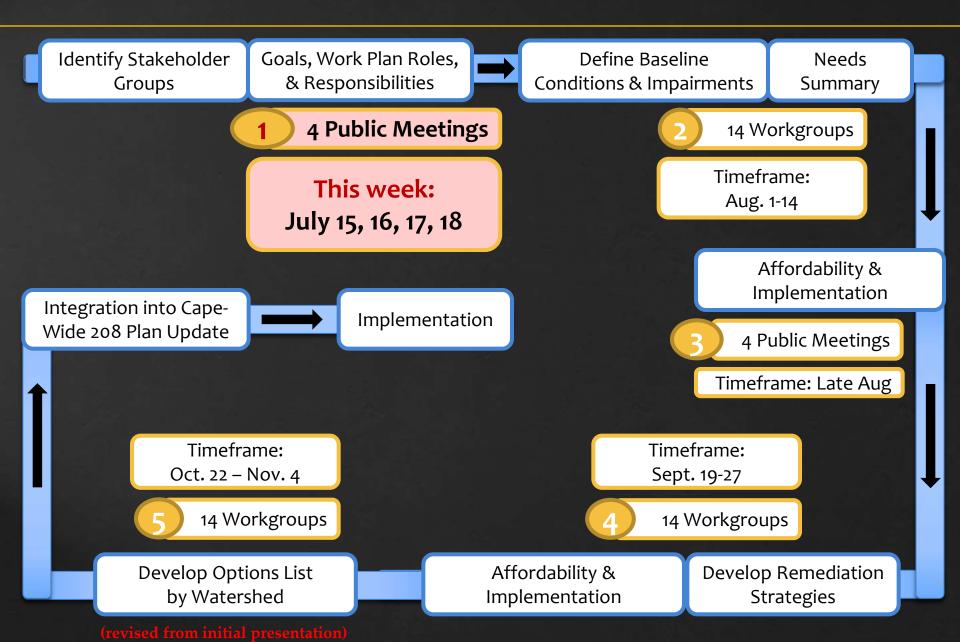
Develop Remediation Strategies

MEETING 3:

Develop Options List by Watershed

(revised from initial presentation)

The 208 Process - Year 1



Lower Cape Working Groups

Namskaket Group

Snow Library

Aug. 9

Sept. 17

1:00 – 5:00 p.m.

Oct. 28

Stage Harbor Group

Chatham Community8:30 a.m -Center12: 30 p.m

Aug. 8 Sept. 26 Oct. 29

Herring River (Harwich)

Harwich Community 8:30 a.m – 12: 30 p.m

Aug. 5 Sept. 24 Oct. 21

Pleasant Bay/Town Cove Nauset Marsh

Orleans Town Hall 8:30 a.m – 12: 30 p.m.

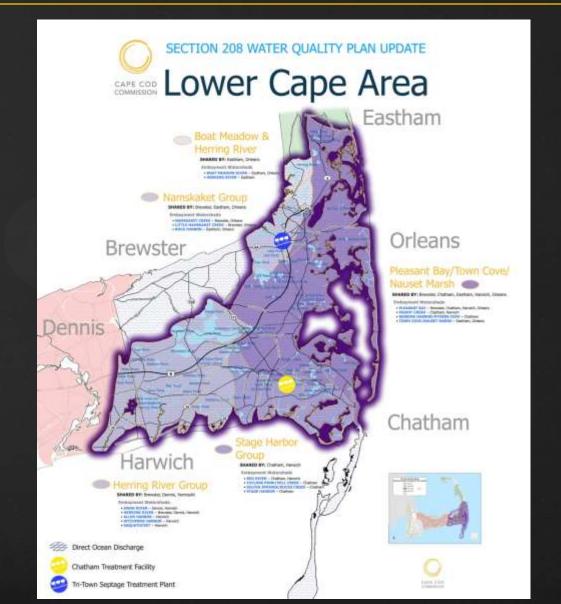
Aug. 12 Sept. 27 Oct. 24

Boat Meadow & Herring River (Eastham)

Eastham Town Hall 8:30 a.m - 12: 30 p.m.

Aug. 7 Sept. 25 Oct. 22

QUESTIONS?



Thinking about this process...

What is our greatest opportunity?

What is our greatest challenge?

Take 15 minutes to talk these over in small groups.

Register to Play Cape₂O



communityplanit.org/capecod



CAPE COD COMMISSION

watersheds.capecodcommission.org