What is the 208 Plan?
Clean Water Act Section 208

The Commission was directed to update 1978 Plan

The Commonwealth provided $3 million to fund the project
Focus on 21st Century Problems

- Nitrogen: Saline Waters
- Phosphorus: Fresh Waters
- Growth & Title 5 Limitations
Nitrogen Removal Required
Approach to the 208 Plan Update

**Goal:**
To generate a series of approaches in each watershed that will meet water quality standards
Area Boundaries
208 Water Quality Management Plan Update

- Lower Cape
- Mid Cape
- Outer Cape
- Upper Cape
What is the stakeholder process?
208 Planning Process

- **July**: Goals, Work Plan & Roles
- **August**: Affordability, Financing
- **September**: Baseline Conditions
- **October**: Technology Options Review
- **December**: Watershed Scenarios
208 Planning Process

Public Meetings

Goals, Work Plan & Roles
Affordability, Financing
Baseline Conditions
Technology Options Review
Watershed Scenarios

Watershed Working Groups

Advisory Board
RLI
TAC

July
August
September
October
December

Regulatory, Legal & Institutional Work Group
Technical Advisory Committee of Cape Cod Water Protection Collaborative
Baseline Conditions

11 Working Group Meetings: Sept 18-27

Subgroup Boundaries
208 Water Quality Management Plan Update

Lower Cape
- Herring River
- Pleasant Bay
- Stage Harbor Group
- Nauset and Cape Cod Bay Marsh Group

Mid Cape
- Cape Cod Bay Group
- Lewis Bay to Bass River
- Three Bays & Centerville River

Outer Cape
- Provincetown Harbor
- Wellfleet Harbor & Pamet River

Upper Cape
- Waquoit Bay & Popponesset Bay
- Upper Cape West & South

208 Planning Process
208 Planning Process

Baseline Conditions
11 Working Group Meetings: Sept 18-27

Technology Options Review
11 Working Group Meetings: Oct 21-Nov 5

Watershed Scenarios
11 Working Group Meetings: Dec 2-11
Goal of Today’s Meeting:

To review and develop shared understanding of the characteristics of these watersheds, the work done to date, existing data and information available, and how to apply all of this to planning for water quality improvements for these watersheds moving forward.

208 Planning Process
Local Progress to Date

Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay
From 1978 Section 208 Plan

Present and future town well sites should be protected from the non-point sources resulting from New development by creating Watershed Protection Districts.

The town should cooperate in regional water supply planning to determine future water supply needs of neighboring towns and whether it can assist.

WASTEWATER: It is expected that no new problem areas will develop and that present problem areas will be controlled during the planning period.

The Orleans 201 facility plan will soon be underway and the cooperation of Brewster in the planning of a septage facility in Orleans that can meet Brewster's septage treatment needs is highly recommended.

It is recommended that Brewster consider cooperating in a regional landfill monitoring program.

The town should form a Water Quality Advisory Committee.

The first task of the committee might be participation in facility planning for regional septage treatment with Orleans.
Brewster: 1970-2013

POPULATION CHANGE: (+61.50%) 8,440

- Orleans, Brewster and Eastham Ground Water Protection District created
- Designation of Inner Cape Cod Bay Area of Critical Environmental Concern
- Wastewater plan
- Pleasant Bay Area of Critical Environmental Concern designation
Brewster: 1970-2013

POPULATION CHANGE: (+19.60%)

8,440 to 10,094

- Pleasant Bay Resource Management Plan Approved
- Title 5 amended
- Wastewater plan
- Hydrogeologic and Hydrochemical Assessment of the Brewster Landfill
Brewster: 1970-2013

- MEP Report - Pleasant Bay Resource Management Plan Update
- MEP Report - Namskaket Creek (shared embayment)
- MEP Report - Little Namskaket Creek (shared embayment)
- Alum Treatment of Long Pond
- Pleasant Bay Resource Management Plan Update
- Brewster Water Protection District DCPC approved
- Populations: 2000-2010
  - 10,094 → (-2.71%) → 9,820

Brewster Freshwater Ponds: Water Quality Status and Recommendations for Future Activities

- Phase I of IWRMP begins. CDM-Smith hired
- Wastewater Regionalization Study (Orleans-Brewster-Eastham)
Brewster: 1970-2013

- Second Half of IWRMP Phase III funding approved. $125,000
- 2013: Management Plan Update
- 2013: IWRMP Phase II Funding.
- 2012: Chapter 115 adopted governing discharges to municipal Storm system
- 2012: MEP Report - Bass River (shared embayment)
- 2011: Construction of Well #6 approved. $3,220,000
- 2011: Cape Cod Water Resources Restoration Projects. $50,000
- 2011: Horsley Witten Group hired for IWRMP Phase II
- 2010: Draft National Pollutant Discharge Elimination System (NPOES) Phase II Municipal Separate Storm Sewer System
- 2010: First Half of IWRMP Phase III funding approved. $130,000
- 2010: IWRMP Phase I report released
- 2010: IWRMP Phase I Funding. $100,000
- 2010: 9,820
From 1978 Section 208 Plan

A study is needed to examine the present capacity of the town's sewage treatment plant and the possible need to expand the present collection system.

The 201 facility plan should be town-wide in scope and should fully evaluate all problem areas in the town including coastal water problems.

The town should fully examine all problem areas considered for expansion in terms of present EPA criteria for determining sewer needs. Since most of the costs for such expansion are not eligible for 201 funding, the town is likely to find the cost of extensive expansion is very high.

The 201 study should also address the secondary growth impacts, particularly strip commercial development, that expansion down Route 28 might cause.

An appropriate on-site system maintenance schedule should be implemented.

The Chatham 201 should consider the feasibility of accepting septage from Harwich.

The water supply protection needs of the town will become increasingly difficult as the population grows.
Chatham: 1970-2013

POPULATION CHANGE: (+0.70%) 6,579 → 6,625

Administrative Consent Order Issued: Special Review Procedures Agreement - Chatham & MEPA Office

- 1990: Monitoring Program of Tributaries to Pleasant Bay
- 1991: Sewer System Evaluation Survey
- 1992: Groundwater Modeling Study at the Water Pollution Control Facility
- 1993: Indian Hill Well Contamination Investigation - Monomoy Lens Groundwater Protection Project
- 1994: Wastewater Treatment Facility Modifications
- 1995: Nitrogen removal modifications at the WPCF to 10 mg/l.
- 1996: ENF for CWMP filed
- 1997: Indian Hill Public Supply Well taken off line for traces of PCE
- 1998: Phase I - Needs Analysis Approved
- 1999: Board of Health requires all cesspools be upgraded to Title 5 at property transfer.

Chatham: 1970-2013
Chatham: 1970-2013

POPULATION CHANGE: (-7.55%)

- MEP Report - ALL Except Pleasant Bay (shared embayment)
- MEP Report - ALL Re-Evaluated (shared embayment)
- MEP Report - Pleasant Bay (shared embayment)
- Notice of Project Change for Phase II approved
- Vote to Re-construct municipal parking lot, a major source of stormwater to Oyster Pond. $500,000
- Certificate issued for Draft EIR/Draft CWMP
- Evaluation of Ecological & Hydrodynamic Responses to Reinstalling a Water Control Structure in the Muddy Creek Dike

Action Plan for the Town of Chatham Ponds

Growth limit bylaw adopted related to sewer expansion
Chatham: 1970-2013

- Article 14: Phase I CWMP: $59,508,000
- Certificate issued for Final EIR/Final CWMP
- Chatham CWMP Approval Decision by Cape Cod Commission
- Chatham WWTF Groundwater Discharge Permit No. 44-1
- Petition from Chatham Concerned Taxpayers filed to reopen MEPA process
- Rural Utilities Service awards $17.8 Million grant to offset sewer construction.
- Request by Chatham Concerned Taxpayers to reopen MEPA process denied
- Completed the alum treatment of Lovers Lake and Stillwater Pond.
- Final Technical Memorandum Muddy Creek Wetland Restoration
- MEP Report - Herring River (Harwich, shared)
- Release from Administrative Consent Order
- Certificate issued for Final EIR/Final CWMP
- Town qualifies for 0-percent SRF loan.
- Petition from Chatham Concerned Taxpayers filed to reopen MEPA process
- Rural Utilities Service awards $17.8 Million grant to offset sewer construction.
- Request by Chatham Concerned Taxpayers to reopen MEPA process denied
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- Certificate issued for Final EIR/Final CWMP
- Town qualifies for 0-percent SRF loan.
From 1978 Section 208 Plan

That the town recognize that the Category 2 problem areas on the south side of town need special attention.

It is also suggested that the town consider establishing "Seasonal Residential Districts" in this area to control the conversion of seasonal dwellings to year-round occupancy.

The 208 plan does not indicate a sewer need in Harwich.

This means that the town will not be eligible for a major central collection system for twenty years.

New wastewater management problems created by the town’s failure to take recommended actions for on-site system management will not be eligible for future 201 construction funds.

While Harwich presently has a state approved interim lagoon, the town should not view this system as a long-term solution to its septage treatment problems.

There has been considerable concern raised over the possible development of a large subdivision and golf course upgradient of the town’s wellfield.

The town should also consider purchasing additional areas to protect the town wells.
Harwich: 1970-2013

- Flax Pond Water Quality Review prepared by the CCC
- Skinequit Ongoing Pond Study, December 7, 2005, Harwich Natural Resources Department
- MEP Report - Pleasant Bay (shared embayment)
- Comprehensive Site Assessment, Queen Anne Road Sanitary Landfill
- Fecal Coliform Evaluation and the Mitigation Planning for the Allen’s Harbor Watershed
- Review and Interpretation of Harwich Ponds Volunteer Monitoring Data

POPULATION CHANGE: (+20.55%)

1990: 10,275
1998: 12,386
2006: ...
**ARTICLE 21:** Fund completion of CWMP. $210,000

**ARTICLE 22:** Fund construction Muddy Creek culvert/bridge. $187,500

**EVALUATION OF HINCKLEYS POND, HARWICH**

**MEP Report - Swan Pond (shared embayment)**

**MEP Report - Herring River (Harwich)**

**Det. MEP Report - Muddy Creek (shared embayment)**

**Final Technical Memorandum: Muddy Creek Wetland Restoration**

**CWMP Community Meeting No. 5. Three options evaluated for wastewater treatment.**

**CWMP Community Meeting No. 4. Discussed site screening process for effluent recharge sites.**

**Harwich LCP Update approved**

**Ecologic Memorandum, Harwich Ponds, 2009-2010 Data Review, April 18, 2011, EcoLogic, LLC**

**QUESTION 3. $100,000 to complete CWMP. Approved. 930 to 540.**

**ARTICLE 24 Fund completion of CWMP. $200,000**

**ARTICLE 2. Increase room tax 4% to 6%. Indefinitely postponed.**

**Harwich: 1970-2013**
Orleans

From 1978 Section 208 Plan

The major problems in Orleans at present are septage management, failing systems in the town center, and protection of water quality in the municipal wells.

Orleans is one of the first towns on the Cape to take positive action to abate the serious problems posed by septage disposal.

A scope of work that would adequately address the problems in downtown Orleans, which may need to be sewered with a small neighborhood system was developed.

The scope of work considered regionalized septage treatment with Eastham and Brewster.

The actual landfill plume location has not been determined. This is critical if the site is to be used as a septage disposal site in the future.

A coordinated land use analysis coordinated with Brewster is necessary to determine watershed protection needs for Orleans.

Orleans has difficult soils in East Orleans and should pay particular attention to failures which might be due to improper soils evaluations or installation. Title 5 enforcement is critical in these areas.
Orleans: 1970-2013

Title 5 of State Sanitary Code Amended.

Wastewater Management Steering Committee established.

Phase 1: Project Administration and Support

Phase 2: Data Review and Scoping
Orleans: 1970-2013

Town Meeting again votes to seek Checkerboard Sewer legislation

POPULATION CHANGE: (7.1%)
Establishment of Board of Water and Sewer Commissioners

Phase 5: Detailed Evaluation of Alternatives, Regulatory Filings and Development of Recommended Plan

State authorizes Checkerboard Sewering for communities with approved CWMPs

Public Meeting: Presentation of Draft CWMP

Public Meeting: Evaluation of Alternatives

Board of Selectmen Wastewater Financing Policy

Board of Health Nutrient Management Regulations

Town Meeting endorses recommended plan

Establishment of Board of Water and Sewer Commissioners

MEP Report - Rock Harbor (shared embayment)

MEP Report - Namskaket Creek (shared embayment)

MEP Report - Little Namskaket Creek (shared embayment)

MEP Little Namskaket, Namskaket, Rock Harbor

Orleans: 1970-2013
Orleans: 1970-2013

- Acceptance of MGL Chapter 83 §1A, Authorization to install sewer mains and drains
- Woods Hole Group Peer Review Report on Pleasant Bay MEP Report
- DEIR/CWMP
- Wastewater Regionalization Study (Orleans-Brewster-Eastham)
- Engineering Review of CWMP by CH2M Hill
- FEIR/CWMP
- MEPA Certificate
- Cape Cod Commission DRI Decision CWMP
- Weston and Sampson Technical Review and Cost Analysis
- MEP Nauset Marsh
- ASA review of Nauset Marsh Report

POPULATION CHANGE: 5,890
Orleans: 1970-2013

**ARTICLE 11. Phase 1A Wastewater Management plan Design. $3,500,000 - Fails to reach 2/3rds**

**QUESTION 2:** Stormwater Management Plan - $500,000. Approved 1,567 to 629.

**QUESTION 8: CWQIP Phase 1A - $3,500,000. Approved 1,386 to 931.**

**QUESTION 9: Comprehensive Water Quality Plan - $2,805,000. Defeated 778 to 1,416.**

**QUESTION 4: Conservation Mooring Pilot Program - $250,000. Defeated 541 to 1,822.**

**Special Town Meeting: Phase 1A Wastewater Management plan Design. $3,500,000 - Fails to reach 2/3rds, 854 to 592**
Did we miss anything?
Your Watersheds

Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay
23.6 square miles
Cape Cod National Seashore
## Natural Features

### Base Map
- Town Lines
- Rivers

### Embayment Boundary
- On Land
- On Sea

### Major Roads
- US Highway
- State Highway
- Roads

### Natural Areas
- Natural Heritage & Endangered Species Program (NHESP) Certified Vernal Pools
- Water Table Contours
- Cranberry Bogs
- Wetlands
- Sea, Lake, & Overland Surges from Hurricanes (SLOSH) Update 2013
- Preliminary FEMA Flood Insurance Rate Map (FIRM) Zones 2013

Sources: MassGIS, MassDOT, ICCOH, FEMA, CCC
Managed Surfaces

**Base Map**
- ~ Town Lines
- ~ Rivers

**Embayment Boundary**
- ~ On Land
- ~ On Sea

**Major Roads**
- ~ US Highway
- ~ State Highway
- ~ Roads

**Managed Surfaces**
- Approximate Managed Ground Surfaces
- Approximate Residential Managed Lawns
- Approximate Managed Golf Courses
- Approximate Municipal Managed Natural Surfaces

Sources: MassGIS, MassDOT, CCC
Sources: MassGIS, MassDOT, CCC
Cape Wide Cost Estimate:
30% growth will increase capital costs by 40%
Increase in Non-Residential Square Footage

- Barnstable
- Bourne
- Brewster
- Chatham
- Dennis
- Eastham
- Falmouth
- Harwich
- Mashpee
- Orleans
- Provincetown
- Sandwich
- Truro
- Wellfleet
- Yarmouth
The People

Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay
Total Population (2010) = 9,099
4.2% of the Total Cape Cod Population

Population (2010)

- Bassing Harbor/Ryders Cove
- Muddy Creek
- Pleasant Bay

2010 Census
Median Age (2010)

- Bassing Harbor/Ryders Cove
- Muddy Creek
- Pleasant Bay
- Barnstable County
- Massachusetts

2010 Census
Race - % White (2010)

- Bassing Harbor/Ryders Cove
- Muddy Creek
- Pleasant Bay
- Barnstable County
- Massachusetts

2010 Census
Total Assessed Value of Residential Homes = $4,790,151,300
Your Government & Taxes

Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay
Average Single Family Property Tax Bill (2013)

Brewster, Chatham, Harwich, Orleans, Barnstable County, Massachusetts

MA Dept of Revenue & Town of Barnstable, 2013
Average Annual Water Bill (2012)

Brewster, Chatham, Harwich, Orleans, Barnstable County, Massachusetts

Average annual water bills for the following locations:

- Brewster
- Chatham
- Harwich
- Orleans
- Barnstable County
- Massachusetts

Tighe & Bond, MA Water Rate Survey, 2012
Chatham Barnstable County (Towns of: Barnstable, Bourne, Falmouth, Chatham, and Provincetown) Massachusetts

Average Annual Sewer Bill (2012)

Tighe & Bond, MA Sewer Rate Survey, 2012
The Problem

Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay
Massachusetts Estuaries Project

- Opportunity for towns to obtain independent analysis of nitrogen loading and its impact on water quality
- Provides water quality, nutrient loading, and hydrodynamic information
- Water quality monitoring – minimum of 3 years of data for each embayment
- Watershed model links water quality data to nitrogen loads
Cape-Wide Controllable Nitrogen Loads

- Septic: 79%
- Lawn Fertilizers: 9%
- Impervious Surfaces: 8%
- Wastewater Treatment Facilities: 4%
- All Other: <1%
Pleasant Bay

- Waste Water: 75%
- Lawn Fertilizer: 16%
- Impervious Surfaces: 9%

Massachusetts Estuaries Project, May 2006

Photo credit: National Park Service
Nitrogen Problem

Base Map
- Town Lines
- Rivers

Embayment Boundary
- On Land
- On Sea

Major Roads
- US Highway
- State Highway
- Roads

Nitrogen
Ecological Indicators
- Healthy
- Healthy/Moderately Impacted
- Healthy/Significantly Impacted
- Moderately Impacted
- Moderately Impacted/Significantly Impacted
- Significantly Impacted
- Significantly Impacted/Significantly Degraded
- Significantly Degraded

Yearly Nitrate Concentration Averages in Public Supply Wells
- 0 - 0.5 mg/l
- 0.5 - 1 mg/l
- 1 - 2.5 mg/l
- 2.5 - 5 mg/l

Embayments with Removal Target
Total NLoad Percent Removal
- 0 %
- 1 - 52 %
- 53 - 72 %
- 73 - 86 %
- 87 - 100 %

Subwatersheds with Removal Target
Total NLoad Percent Removal
- 0.1 % - 9%
- 9.1 % - 38 %
- 38.1 % - 62 %
- 62.1 % - 86 %
- 86.1 % - 100%

Sources: MassGIS, MEP, CCC
Pre-Colonial Conditions: Bassing Harbor/Ryders Cove

Contour Plot of modeled total nitrogen concentrations (mg/L) in the Bassing Harbor system, for no anthropogenic loading conditions, and present background N concentration at the entrance to Pleasant Bay (0.48 mg/L).

(Source: MEP 2003)
Contour Plot of **modeled total nitrogen concentrations** (mg/L) in the Bassing Harbor system, for present loading conditions, and present background N concentration at the entrance to Pleasant Bay (0.48 mg/L).

(Source: MEP 2003)
Contour Plot of modeled total nitrogen concentrations (mg/L) in the Bassing Harbor system, for projected build out loading conditions, and present background N concentration at the entrance to Pleasant Bay (0.48 mg/L).

(Source: MEP 2003)

Buildout Conditions: Bassing Harbor/Ryders Cove
Contour plot of **modeled total nitrogen concentrations** in Muddy Creek, for no anthropogenic loading conditions, and present total nitrogen concentration in Pleasant Bay (0.50 mg/L).

(Source: MEP 2003)
Contour plot of modeled total nitrogen concentrations in Muddy Creek, for present loading conditions, and present total nitrogen concentration in Pleasant Bay (0.50 mg/L).

(Source: MEP 2003)
Contour plot of **modeled total nitrogen concentrations** in Muddy Creek, for projected build out loading conditions, and present total nitrogen concentration in Pleasant Bay (0.50 mg/L).

(Source: MEP 2003)
Pre-Colonial Conditions: Pleasant Bay

Contour plot of modeled total nitrogen concentrations (mg/L) in Pleasant Bay, for no anthropogenic loading conditions.

(Source: MEP 2003)
Contour plot of average bioactive (DIN+PON) nitrogen concentrations from results of the present conditions loading scenario, for the Pleasant Bay system.

(Source: MEP 2003)
Contour plot of **modeled total nitrogen concentrations (mg/L)** in the Pleasant Bay system, for projected build-out loading conditions.

(Source: MEP 2003)

Buildout Conditions: Pleasant Bay
Nitrogen Problem

Base Map
- Town Lines
- Rivers

Embayment Boundary
- On Land
- On Sea

Major Roads
- US Highway
- State Highway
- Roads
- Structures
- Ponds

Nitrogen
Ecological Indicators
- Healthy
- Healthy/Moderately Impacted
- Healthy/Significantly Impacted
- Moderately Impacted
- Moderately Impacted/Significantly Impacted
- Significantly Impacted
- Significantly Impacted/Significantly Degraded
- Significantly Degraded

Yearly Nitrate Concentration Averages in Public Supply Wells
- 0 - 0.5 mg/l
- 0.5 - 1 mg/l
- 1 - 2.5 mg/l
- 2.5 - 5 mg/l

Embayments with Removal Target
Total NLoad Percent Removal
- 0 %
- 1 - 52 %
- 53 - 72 %
- 73 - 86 %
- 87 - 100 %

Subwatersheds with Removal Target
Total NLoad Percent Removal
- 0.1 % - 9%
- 9.1 % - 38%
- 38.1 % - 62%
- 62.1 % - 86%
- 86.1 % - 100%

Sources: MassGIS, MEP, CCC
Phosphorus Problem

**Base Map**
- Town Lines
- Rivers

**Embayment Boundary**
- On Land
- On Sea

**Major Roads**
- US Highway
- State Highway
- Roads

**Phosphorus Priority Ponds**
- Trophic Status
  - [Green] Eutrophic: Most Impacted
  - [Green] Mesotrophic
  - [Green] Oligotrophic: Least Impacted
  - [Gray] Not Interpreted

Sources: MassGIS, MassDOT, CCC
Title 5 Compliance Issues

Base Map
- Town Lines
- Rivers

Embayment Boundary
- On Land
- On Sea

Major Roads
- US Highway
- State Highway
- Roads

Existing Conditions
- Approx. Locations of Loans Issued for Title 5 Repair
- Potential Title 5 Compliance Issues
- Wastewater Treatment Facility
- Groundwater Discharge Points
- Sewered Parcels

Sources: MassGIS, MassDOT, MassDEP, Barnstable County Community Septic Loan Program, CCC
Existing & Proposed Solutions

Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay
Existing Infrastructure

Base Map
- Town Lines
- Rivers

Embayment Boundary
- On Land
- On Sea

Major Roads
- US Highway
- State Highway
- Roads

Existing Conditions
- Approx. Locations of Loans Issued for Title 5 Repair
- Potential Title 5 Compliance Issues
- Wastewater Treatment Facility
- Groundwater Discharge Points
- Sewered Parcels

Enhanced Attenuation Sites
- Pipe
- Stormwater

Public Supply Wells
- Public Water Supply Well
- Small Volume Wells, Non-Transient
- Proposed Public Water Supply Well
- Surface Water Supply
- Small Volume Wells, Transient

Sources: MassGIS, MassDOT, MassDEP, Barnstable County Community Septic Loan Program, CCC
Proposed Infrastructure

**Base Map**
- Town Lines
- Rivers

**Embankment Boundary**
- On Land
- On Sea

**Major Roads**
- US Highway
- State Highway
- Roads

**Proposed Conditions**

**Natural Attenuation Sites**
- Bridge
- Culvert
- Inlet
- Pipe
- Sewer Alternatives
- Stormwater

**CWMP Sewershed Phasing**
- No Date Set

**Phase Date**
- 2001 - 2010
- 2011 - 2020
- 2021 - 2030
- 2031 - 2040
- 2041 - 2050

Sources: MassGIS, MassDOT, CCC
Framework for Addressing Solutions Moving Forward

Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay
All materials and resources for the Pleasant Bay Group will be available on the Cape Cod Commission website:


Bassing Harbor/Ryders Cove
Muddy Creek
Pleasant Bay