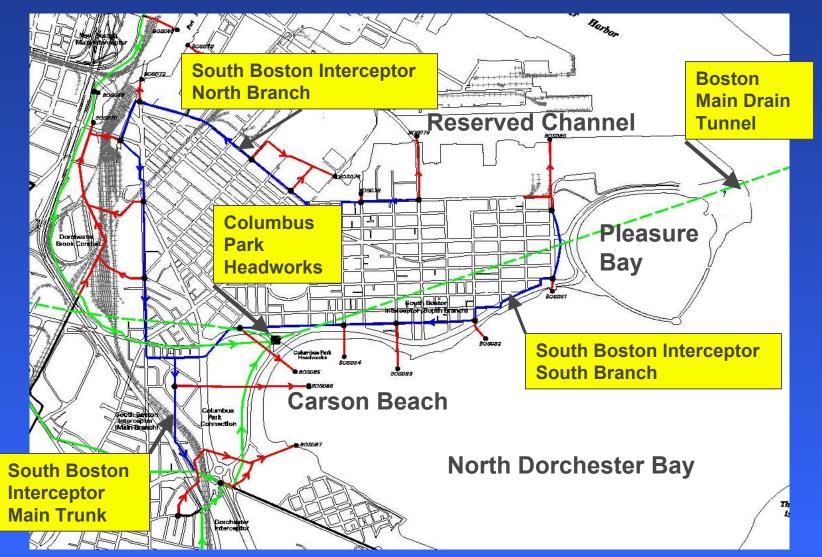


#### **South Boston CSO Reassessment** Wastewater Advisory Committee November 1, 2002

#### **South Boston CSO System**



## **Recommended Plan**



### **Reassessment and MEPA Process**

#### Phase I

- Update Baseline Conditions (System Flows and WQ)
- Identify and Screen a Full Range of Control Options
- Identify and Evaluate Site Options
- Phase II
  - Detailed Evaluation of Shortlisted Control Alternatives
  - Select a New Recommended CSO Control Plan
  - Submit SEIR for MEPA Review and Public Comment

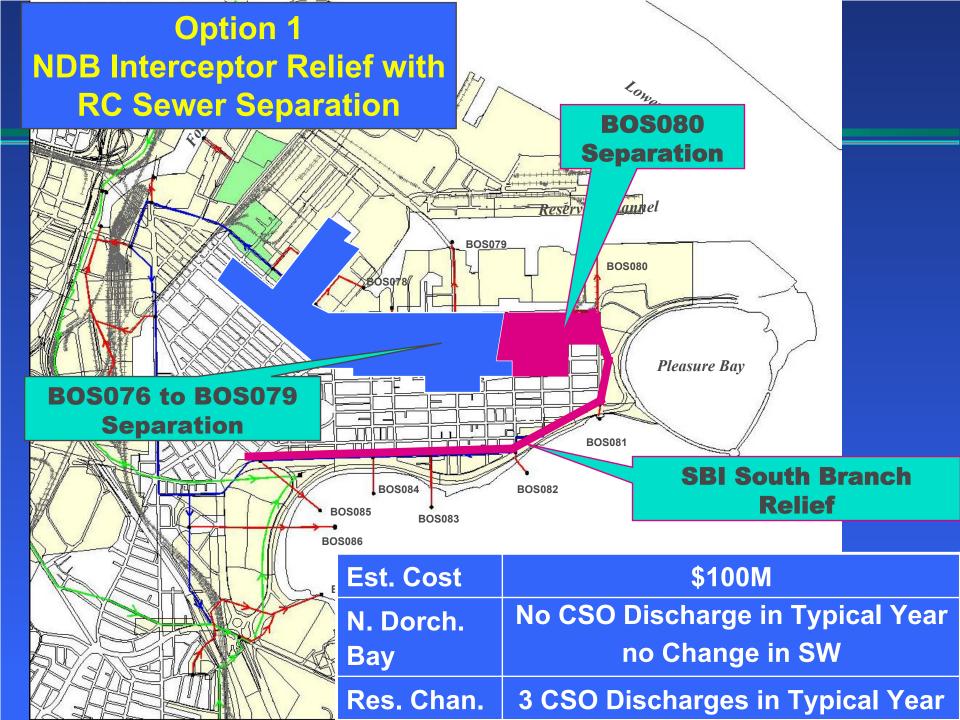
 Public Participation/Consensus Building Throughout

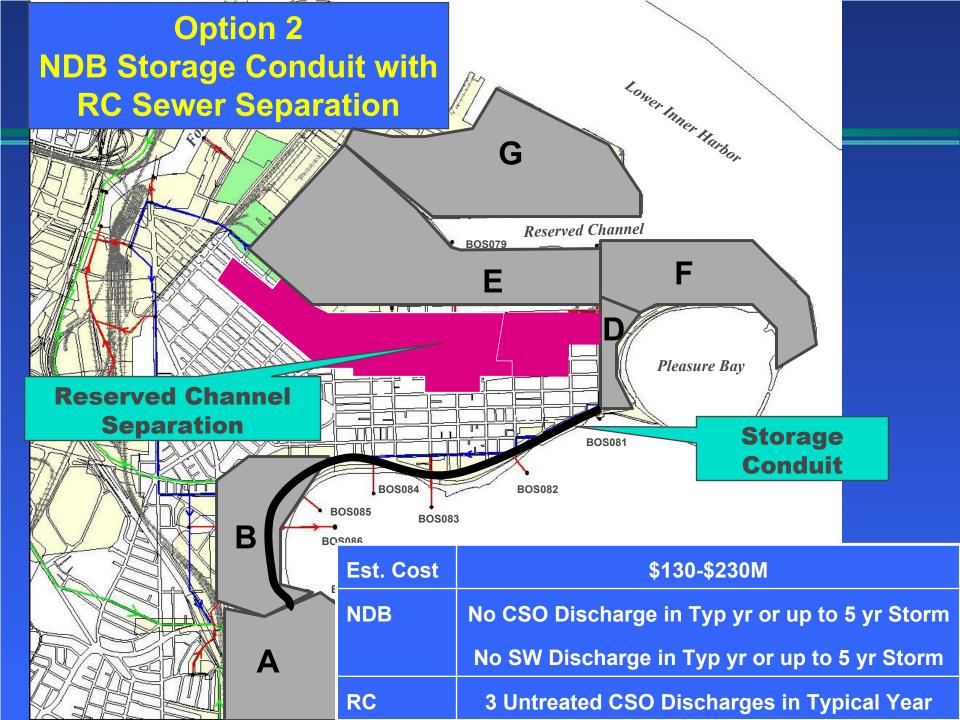


- Recommend an implementable CSO control plan for the beaches and Reserved Channel that:
  - is acceptable to the public
  - meets State and National CSO control policy requirements and complies with WQ standards
  - -is acceptable to the Federal Court
  - -is approved by MWRA Board

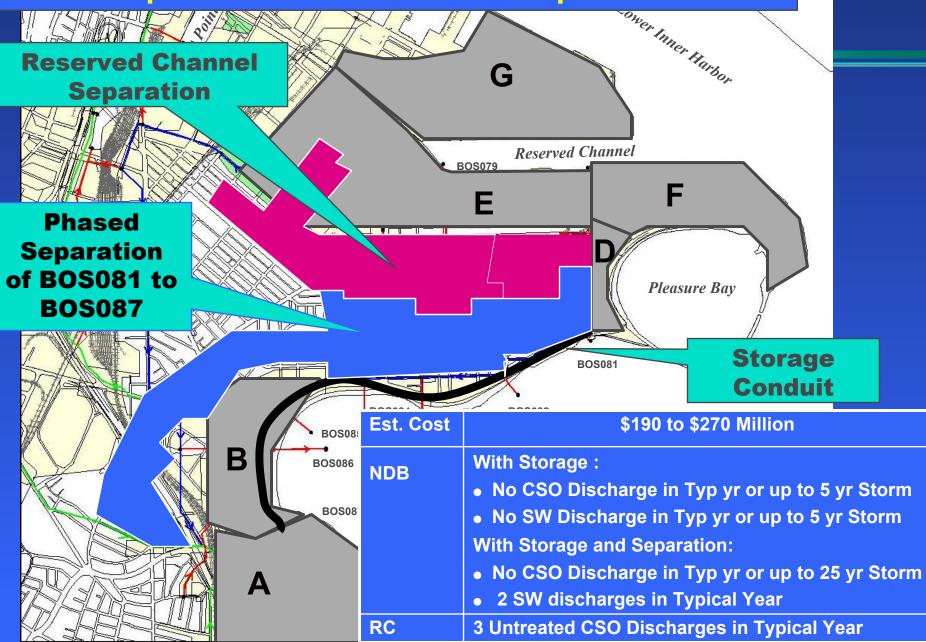
## **Four Control Options**

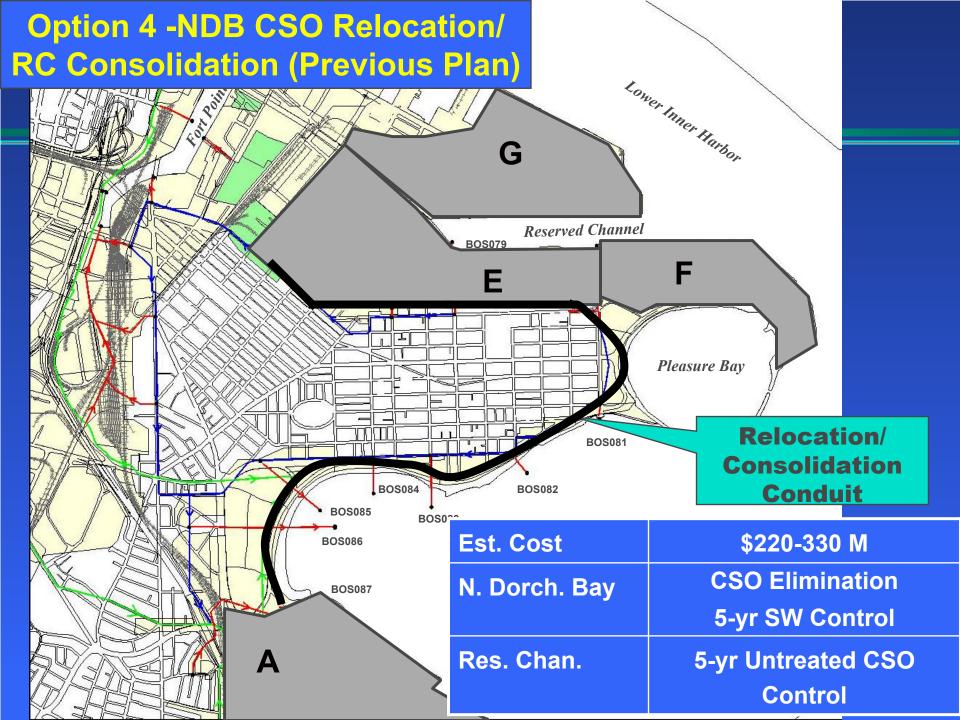
- N. Dorch. Bay: Interceptor Relief Res. Channel: Sewer Separation
- N. Dorch. Bay: Storage Conduit Res. Channel: Sewer Separation
- N. Dorch. Bay: Storage with Phased NDB Separation Res. Channel: Sewer Separation
- N. Dorch. Bay: CSO Relocation (Previous Plan) Res. Channel: Tunnel Storage (Previous Plan)



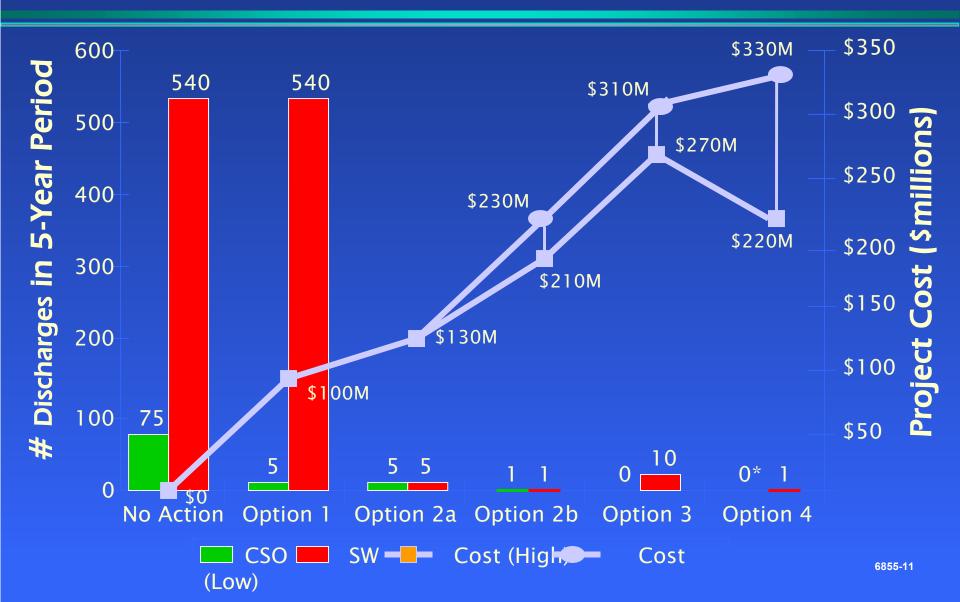


#### Option 3 - NDB Storage Conduit and Phased Sewer Separation With RC Sewer Separation





### Cost/Performance of CSO Control Options for 5-Year Period



#### **Minimum Site Size Requirements**

Facility	Approximate Site Requirements	
	Permanent Facility	Facility and Construction
600 MGD CSO Facility with Concurrent Mining Shaft	3 acres	10 acres
600 MGD CSO Facility with Phased Mining Shaft	3 acres	6 acres
Mining Shaft Only	0.25 acres	4 acres
10 MGD Dewatering Facility	0.5 acres	4 acres
Tunnel Odor Control Facility	0.5 acres	0.75 acres

#### Summary of Potential Sites after Initial Screening

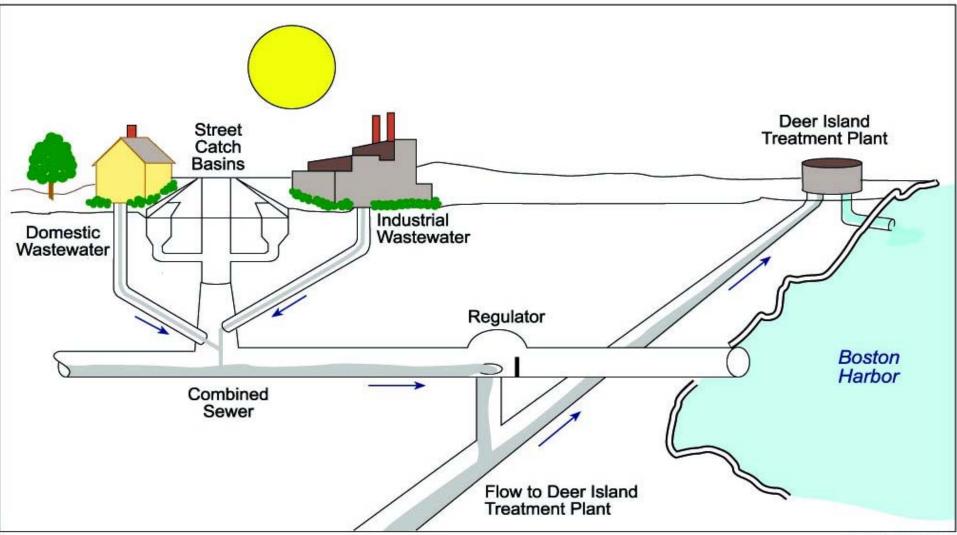




- Complete WQ Sampling Program (November 02)
- Complete Phase I Evaluations (December 02)
  - Cost/Performance
  - Initial Look at Water Quality Impacts
  - Start Detailed Siting Evaluations
  - Short list of potential sites and technologies/levels of control
- Initiate Phase II of Reassessment (January 03)
  - Site-specific layouts of alternatives
  - Detailed Evaluation Based on Identified Criteria
- Complete Phase II Evaluations (Spring 03)
  - File SEIR with Revised Recommended Plan

#### What are CSOs?

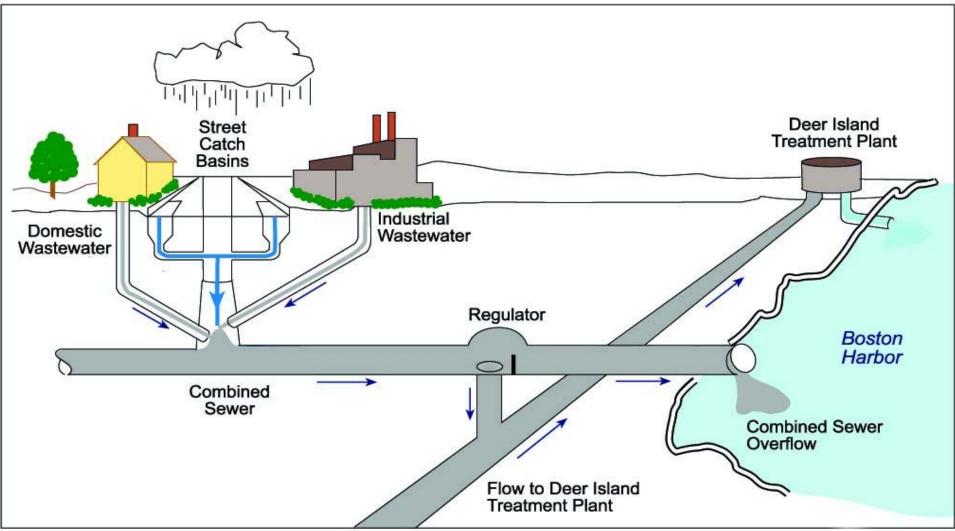
#### **DRY WEATHER CONDITIONS**



04a/4901ref06/4847/Z7E

#### What are CSOs?

#### WET WEATHER CONDITIONS



### Initial Site Screening Criteria Based on Land Use

#### Actively Utilized Park/Recreation Areas

Residences Located within 500 Feet

• Future Plans

Historical/Archaeological

### South Boston CSO Reassessment Will Follow MEPA Process

 April 2001 Notice of Project Change Presented Proposed Scope of Work

 Reassessment Will Result in a Supplemental Environmental Impact Report (SEIR)



# Summary of Alternatives Screening Process

- 165: Initial Number of Alternatives
- 67: Remaining Alts after Initial Screening, Comparing Similar Alts
- 41: Remaining Alts after Combining N. Dorch. Bay and Res. Chan. Alts as Appropriate
- 4: Major CSO Control Options, based on Inspection of Remaining 41 Alternatives

### Site Screening Criteria Based on Size/Configuration

#### • After applying land use criteria:

- Sites too small to construct a facility
- Sites with a configuration precluding construction of a facility