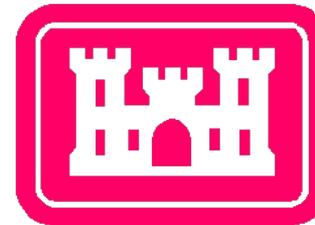




US Army Corps of Engineers
New England District



New England District FY 2016 Dredging Program



**US Army Corps
of Engineers®**
New England District

171 Navigation Projects

68 Deep Draft Projects

13 Deep Draft Projects 31 feet or Greater

156 Breakwaters or Jetties

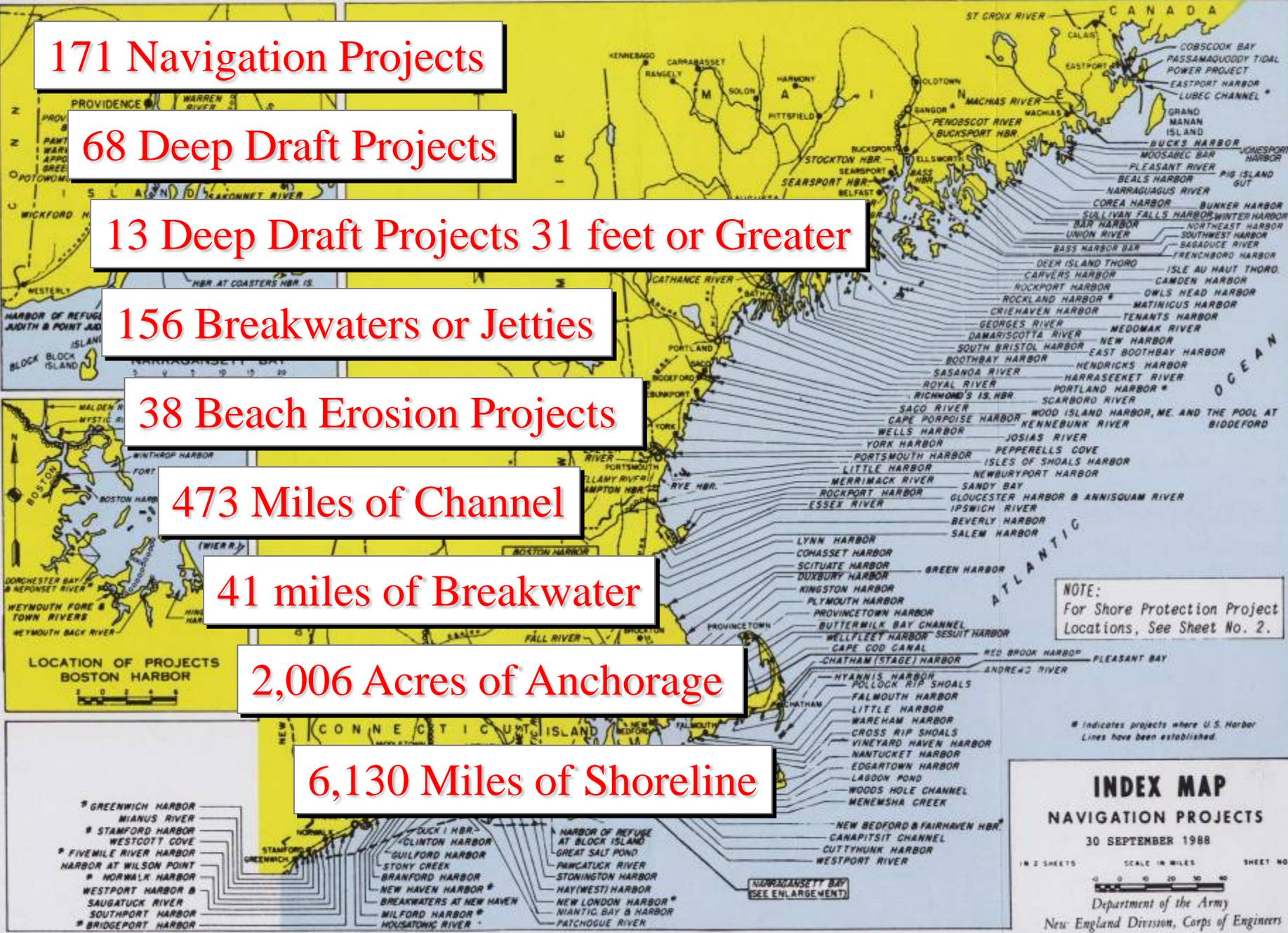
38 Beach Erosion Projects

473 Miles of Channel

41 miles of Breakwater

2,006 Acres of Anchorage

6,130 Miles of Shoreline



NOTE:
For Shore Protection Project Locations; See Sheet No. 2.

* Indicates projects where U.S. Harbor Lines have been established.

INDEX MAP
NAVIGATION PROJECTS

30 SEPTEMBER 1988

1 OF 2 SHEETS SCALE IN MILES SHEET NO. 1



Department of the Army
New England Division, Corps of Engineers



US Army Corps of Engineers New England District



Schedule For FY-16 O&M Dredging Work for New England District North Atlantic Division

NAE O&M and New Work Dredging Program

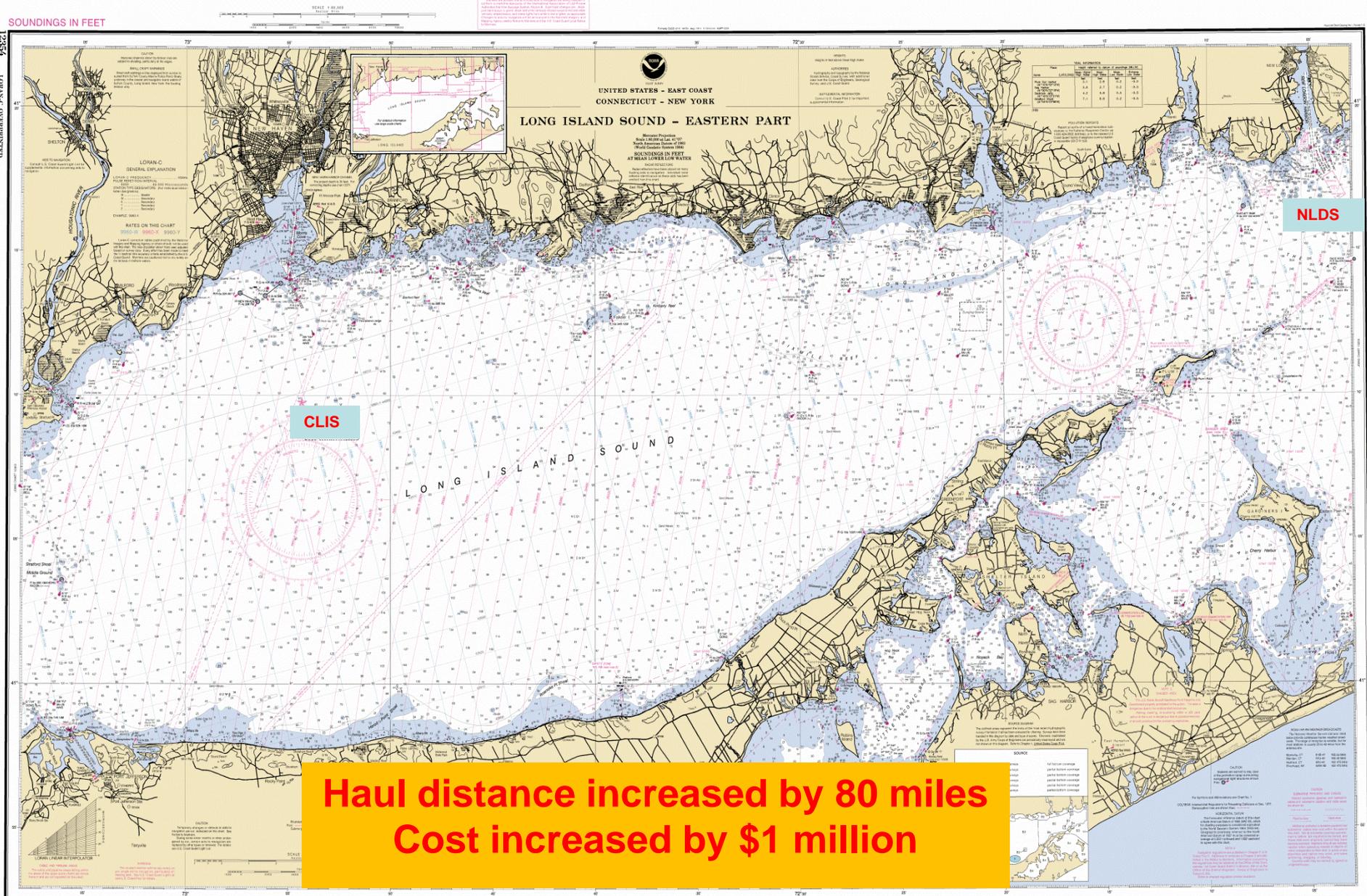
				FY 16												Updated October 2015		
Project		Contractor & Dredge		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
1	Cohasset Harbor 60,000 CY Pipeline	H2H Associates AWD 7/13/2015			Existing Contract													
2	Mystic River, CT 212,000 CY Bucket	Cashman Dredging AWD 9/30/2014				Existing Contract												
4	Menemsha Creek, MA 60,000 CY Pipeline	J-Way Southern AWD 6/30/2015			Existing Contract													
5	Beals Harbor and Pig Island Gut 117,930 CY Bucket	TBD IFB 12/22/2015																Bucket
6	Royal River 81,500 CY Bucket	Burnham Associates AWD 9/5/2014			Existing Contract													
7	Cape Cod Canal 150,000 CY Hopper	TBD BO 10/27/2015						Hopper										
8	Block Island HOR 10,000 CY Government												Hopper					
9	Great Salt Pond 10,000 CY Government												Hopper					



10/06/2015

SOUNDINGS IN FEET

12354
LORAN-C OVERPRINTED



Haul distance increased by 80 miles
Cost increased by \$1 million

12354
LORAN-C OVERPRINTED

12354
LORAN-C OVERPRINTED

12354
LORAN-C OVERPRINTED

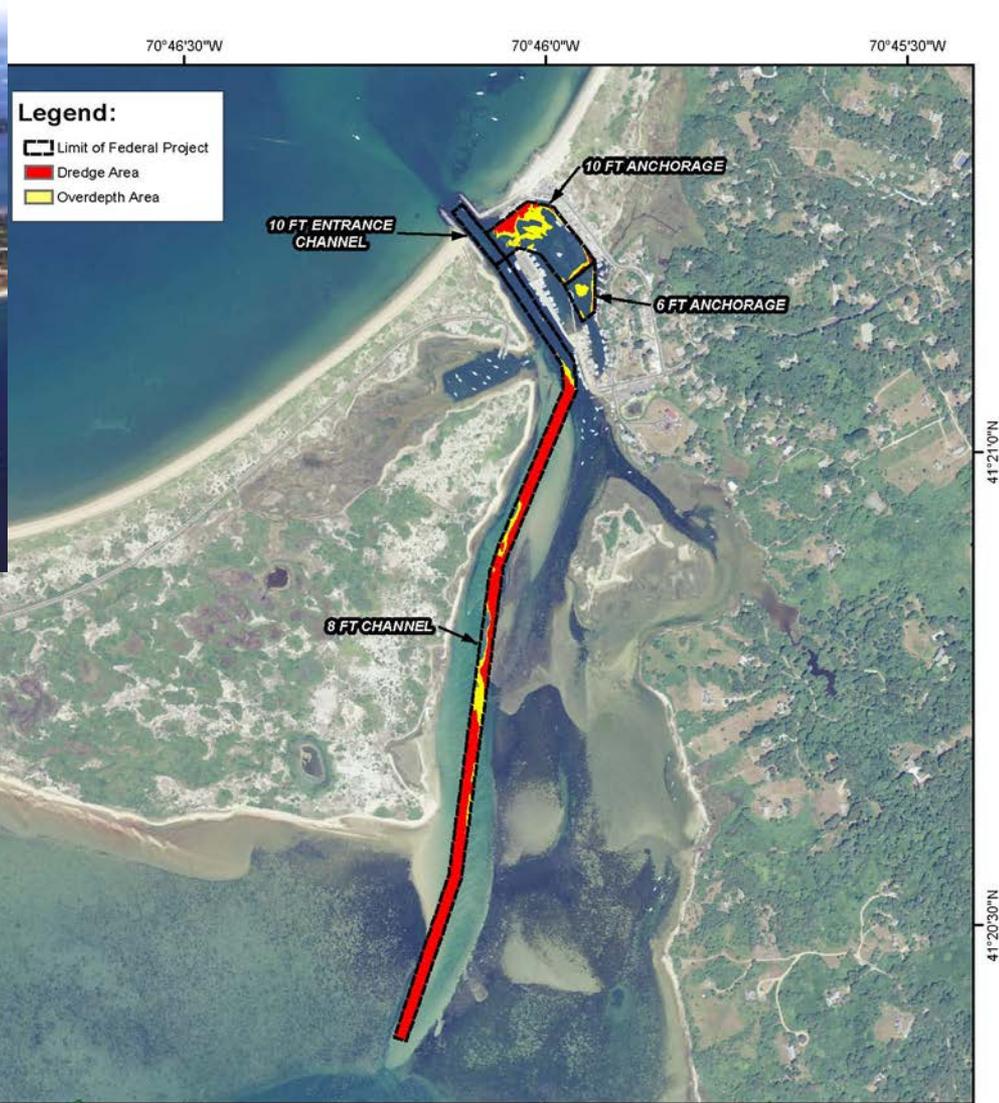
SOUNDINGS IN FEET

Long Island Sound Eastern Part
SOUNDINGS IN FEET - SCALE 1:60,000

12354
LORAN-C OVERPRINTED

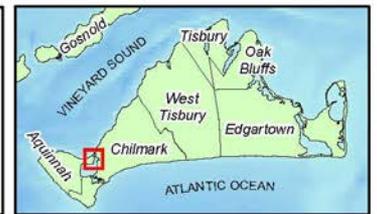
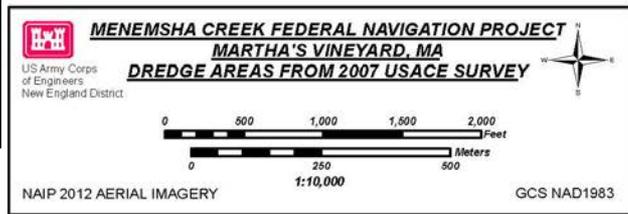


Electronic Navigation Certificate of Authenticity
 This document is an official product of the National Oceanic and Atmospheric Administration (NOAA). It is a digital representation of the original chart and is intended for use in electronic navigation systems. The original chart is the authoritative source of information. This document is not to be used as a substitute for the original chart. For more information, please contact the National Oceanic and Atmospheric Administration. © 2010 NOAA. All rights reserved.



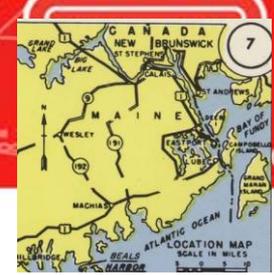
Menemsha Creek

Project Depth: 10' Channels & 6' Anchorage
Last Dredged: 1974
Quantity: 60,000 cy
Material Type: Sand
Equipment Type: Hydraulic
Disposal Site: Adjacent Beach





US Army



Beals Harbor and Pig Island Gut, Me

Project Depth: 6' & 10' MLLW

Last Dredged: Beals Harbor 1957

Pig Island Gut 1965

Combined Quantity: 100,000 cy

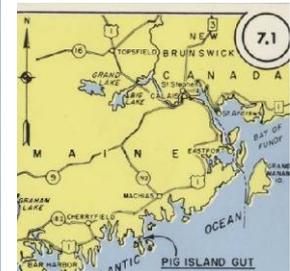
Material Type: Silt/Clay

Equipment Type: Mechanical

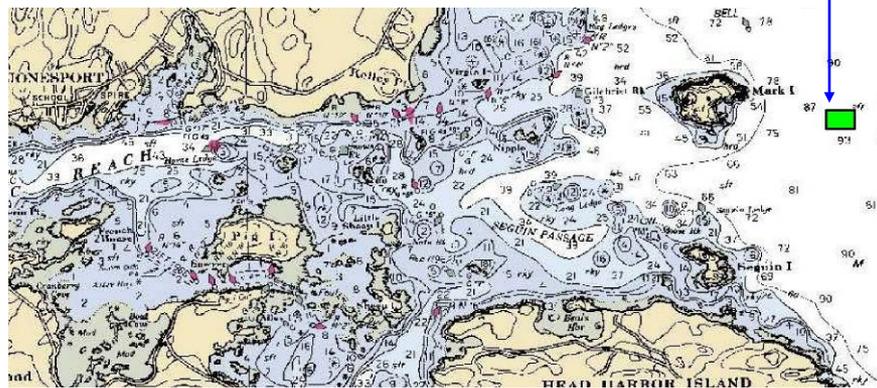
Disposal Site: Deep Hole East of Mark Island

Haul Distance: 3 miles to Pig Island Gut

4 ½ miles to Beals Harbor



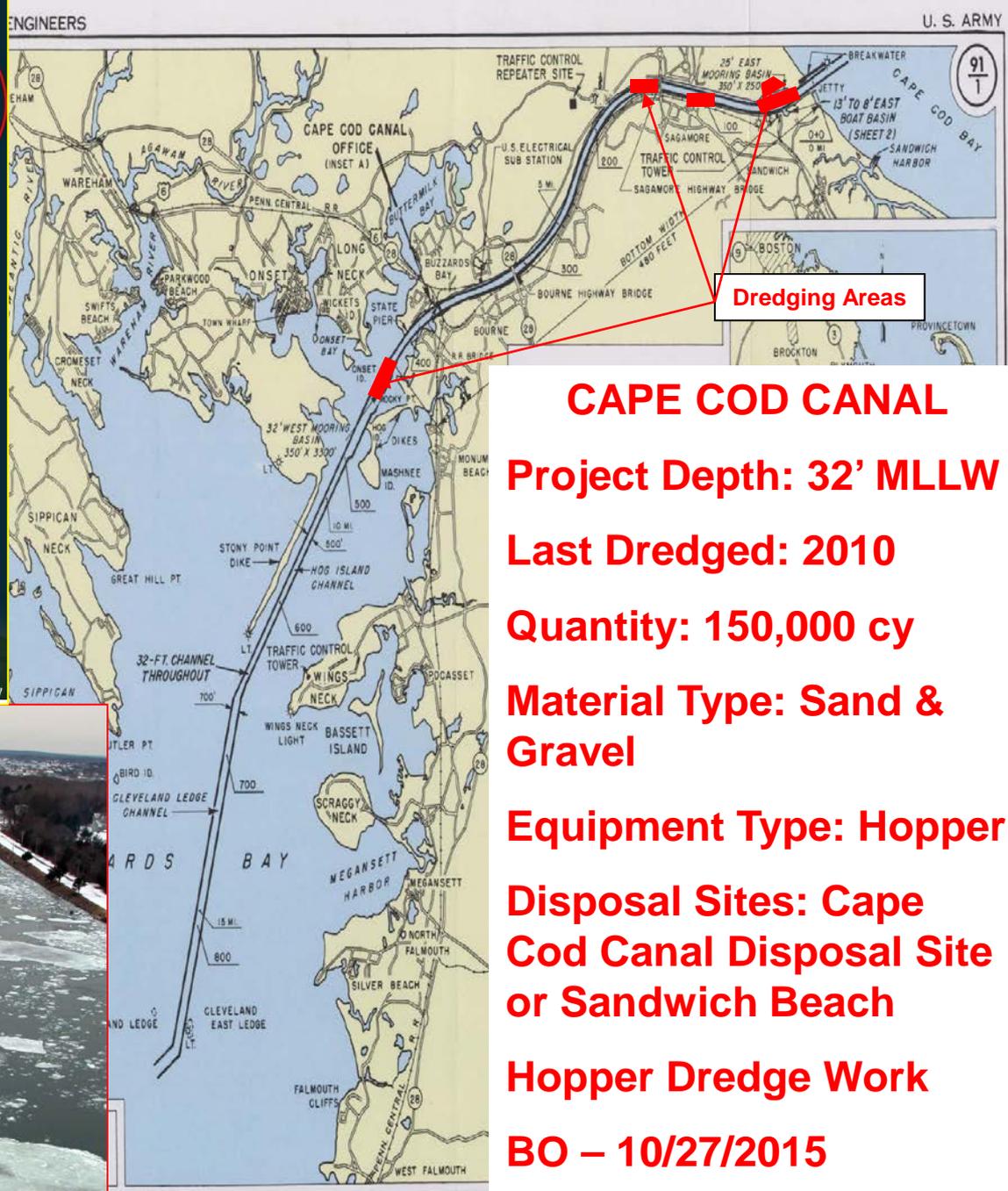
Disposal site





- Legend:**
-  Limit of Federal Project
 -  CCBDCS
 -  Town Neck Beach Placement

Cape Cod Bay Canal Disposal Site





U.S. ARMY

US Ar

Jetty/Breakwater Repair

Work Awarded/Underway

New Haven Harbor, CT - Breakwater
Harbor of Refuge, Block Island, RI - Jetty
Point Judith, RI – East Shore Arm
Point Judith, RI - USCG Station Revetment
Rockport Harbor, MA - Breakwater
Newburyport North Jetty
Nantucket Harbor of Refuge, MA - Jetty

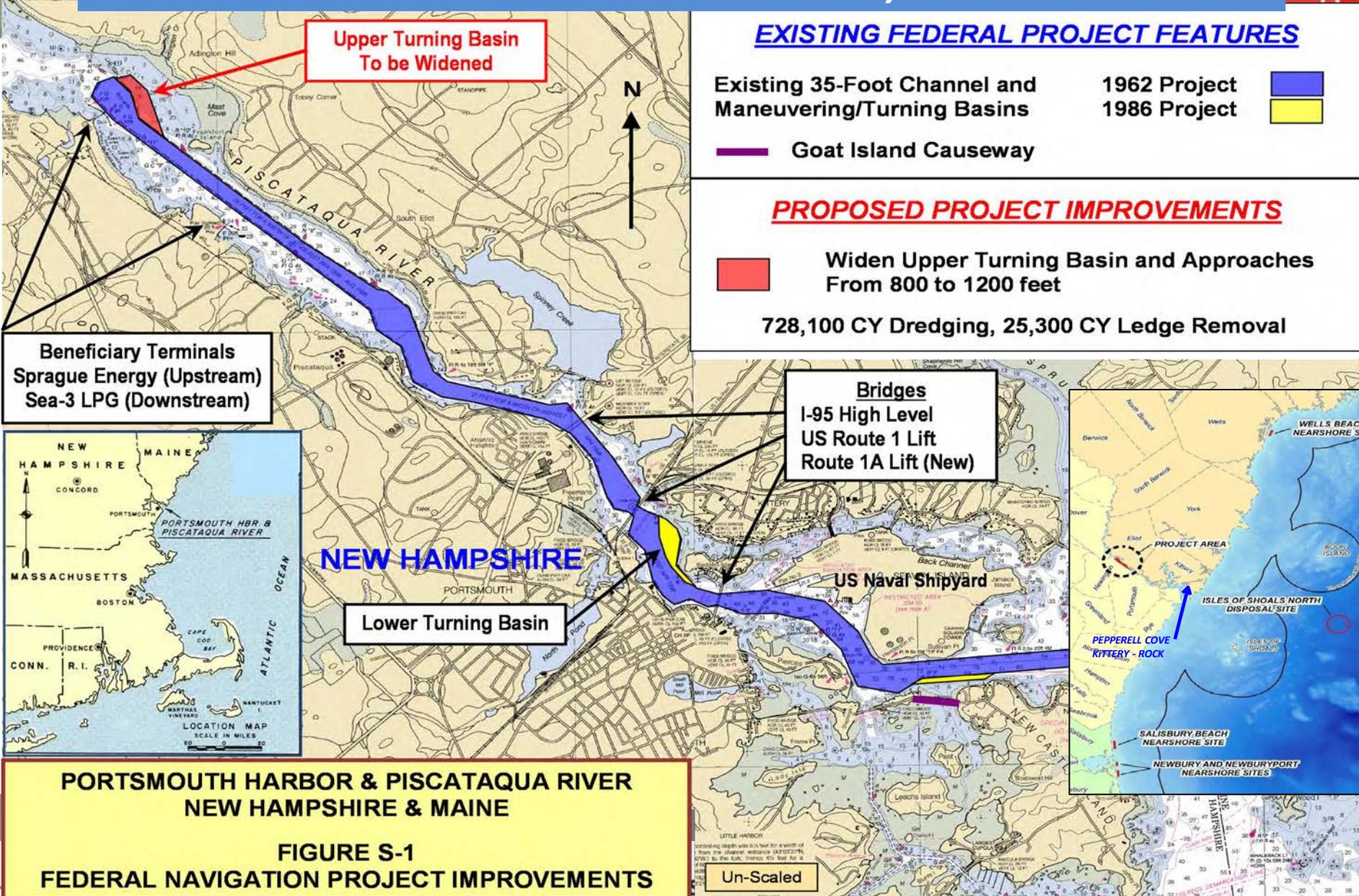
Work going out for bid in 2016

Hampton Harbor North Jetty



2016

PORTSMOUTH HARBOR AND PISCATAQUA RIVER, NAVIGATION IMPROVEMENT, NH & ME





River Road Terminal
Sprague Energy



Non-Federal Beneficial Use Opportunities

- 4 Towns in ME and MA propose to use sandy till for nearshore bar nourishment
- Kittery ME proposed using rock for wave break project
- Not an LPP – Fully Locally Funded

Environmental Compliance

- NH and ME have issued CZM concurrence
- NMFS and USF&WS issued No Impact or Not Likely to Impact ESA Determinations

Sponsor Support

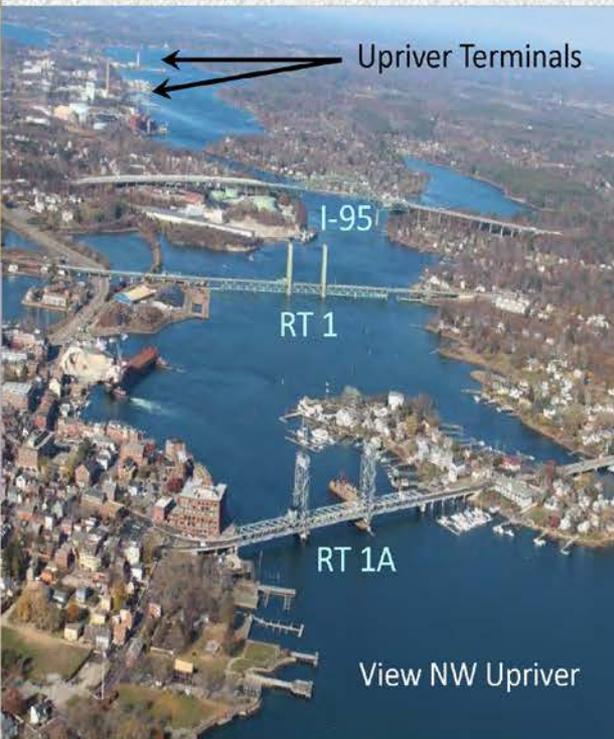
The Pease Development Authority, the Non-Federal Sponsor fully supports the recommended plan

Problems and Opportunities

- Vessel size limited by turning basin width
- Opportunity to expand on past improvements to improve shipping up-river
- Reduce grounding damages
- Reduce transit costs and time
- Increase vessel size and efficiency

Principal Constraint

- Rockbound waterway, bridges and currents limit ultimate channel widths and limit vessel size to 800 Feet long



Avery Lane Terminal
Sea-3 and Sprague



NED Plan Costs and Economics

Initial Construction Cost *	\$20,770,000
Annual Cost	\$1,060,000
Annual Benefits	\$3,290,000
Annual Net Benefits	\$2,230,000
BCR at 3.375%	3.1 : 1

* Oct 2014 program level

Recommended (NED) Plan

- Widen existing 800-foot upper turning basin to 1200 feet
- 728,100 CY till + 25,300 CY rock
- Federal Base Plan is ocean disposal at IOS-N site

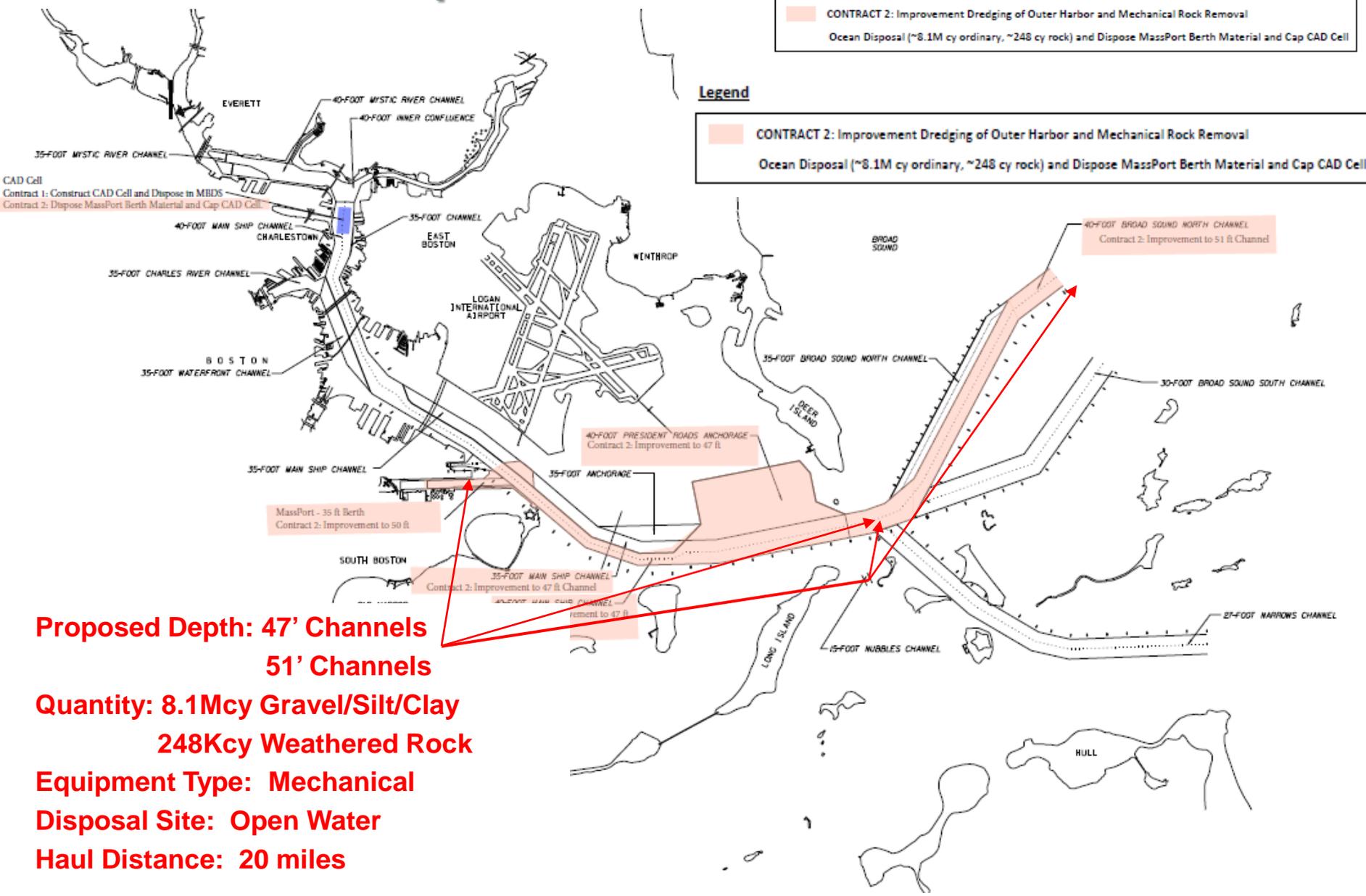
Boston Harbor – Improvements

Legend

CONTRACT 2: Improvement Dredging of Outer Harbor and Mechanical Rock Removal
 Ocean Disposal (~8.1M cy ordinary, ~248 cy rock) and Dispose MassPort Berth Material and Cap CAD Cell

Legend

CONTRACT 2: Improvement Dredging of Outer Harbor and Mechanical Rock Removal
 Ocean Disposal (~8.1M cy ordinary, ~248 cy rock) and Dispose MassPort Berth Material and Cap CAD Cell



**Proposed Depth: 47' Channels
 51' Channels**

**Quantity: 8.1Mcy Gravel/Silt/Clay
 248Kcy Weathered Rock**

**Equipment Type: Mechanical
 Disposal Site: Open Water
 Haul Distance: 20 miles**