

## **APPENDIX G**

### Hydrographic Surveys

**December 2010/January 2011 Hydrographic Survey**

Doubling Point

&

Bluff Head Disposal Area

(Ice conditions prevented taking the survey of Popham Beach)



376000Y

375500Y

375000Y

374500Y

374000Y

373500Y

373000Y

3051500X

3051000X

3050500X

3050000X

3051500X

3051000X

3050500X

3050000X

376000Y

375500Y

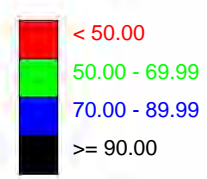
375000Y

374500Y

374000Y

373500Y

373000Y



21.8 31.1 28.4  
 84.1 85.5 83.1 81.6 80.7 86.5 86.1 90.0 93.7 99.8 77.5 76.1 75.1 72.1 72.5 63.1 53.6 46.3 26.0  
 49.4 47.9 50.3 32.7 48.3 67.7 37.9 51.7 77.0 81.5 83.7 99.8 77.5 76.1 75.1 72.1 72.5 63.1 53.6 46.3 26.0  
 27.9 48.3 67.7 37.9 51.7 77.0 81.5 83.7 99.8 77.5 76.1 75.1 72.1 72.5 63.1 53.6 46.3 26.0  
 25.2 48.6 76.4 79.7 84.9 95.4 00.2 98.2 88.6 77.2 85.5 76.0 65.1 60.0 56.0 44.1 42.3 25.7  
 26.1 44.7 77.3 76.9 84.3 90.7 94.9 89.5 88.5 77.4 63.3 54.3 54.0 44.1 42.3 25.7  
 27.6 42.3 76.5 76.9 82.7 86.9 89.5 88.5 77.4 63.3 54.3 54.0 44.1 42.3 25.7  
 30.2 42.4 75.5 78.1 82.3 85.2 86.3 82.7 91.3 94.9 91.4 76.5 61.7 48.8 53.4 49.6 44.1 30.7  
 33.3 45.8 75.5 79.7 82.1 89.8 94.2 91.5 77.0 64.3 55.1 53.8 54.4 46.0 37.3  
 34.2 48.0 76.4 78.3 80.7 87.3 91.9 90.7 79.5 62.3 56.5 54.3 53.4 49.1 40.5  
 36.0 54.8 74.2 75.7 76.3 84.0 88.9 80.7 81.0 60.1 57.2 52.1 53.8 54.8 50.9 40.3  
 39.1 59.5 72.1 73.7 73.9 81.5 84.7 87.1 80.9 57.7 57.2 52.1 53.8 54.8 52.7 37.4  
 34.6 60.6 72.1 71.7 74.2 72.6 73.2 74.5 79.2 82.8 82.7 62.9 63.9 57.5 56.6 54.2 21.7  
 28.6 62.9 72.4 72.6 73.2 74.5 79.2 82.8 82.7 62.9 63.9 57.5 56.6 54.2 21.7  
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 29.7 53.1 86.3 84.7 86.4 87.9 93.3 95.3 93.3 95.3 85.7 69.7 57.8 54.3 49.7 45.6 18.3  
 23.5 47.9 86.0 86.6 88.4 90.3 96.7 97.5 93.1 73.0 62.9 53.9 44.5 39.6 22.9  
 2.0 19.0 38.1 84.8 87.4 88.3 90.7 97.6 97.3 90.9 68.5 61.7 54.1 46.0 35.9 21.5  
 2.8 12.0 34.6 85.4 88.2 88.3 88.0 92.7 93.0 96.3 95.7 81.9 59.7 52.7 42.7 35.4 21.6  
 7.0 12.9 39.9 84.2 87.3 96.6 93.4 95.3 94.7 77.8 56.1 52.3 47.7 34.5 34.5 16.9  
 11.3 14.8 37.1 86.8 89.1 94.1 94.2 94.3 82.8 64.8 52.1 44.8 50.5 35.6 25.5  
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 20.4 32.2 45.3 74.3 91.4 94.0 97.0 96.7 80.3 60.5 52.6 40.0 49.1 36.3 16.9  
 17.8 35.5 52.2 81.9 90.3 96.8 96.0 94.7 80.3 60.5 52.6 40.0 49.1 36.3 16.9  
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 28.8 38.0 61.8 81.5 88.8 94.4 98.9 93.8 83.4 70.4 49.8 40.3 18.6  
 35.3 46.2 70.3 81.1 86.5 91.1 96.2 95.6 84.1 72.8 55.2 36.3 17.7  
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 48.8 58.5 75.4 75.9 80.3 85.5 90.1 96.3 72.1 70.0 45.6 47.3 27.3 13.5  
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 39.8 80.1 79.9 75.3 79.9 84.8 86.1 82.1 65.0  
 41.5 78.7 75.5 84.9 65.4  
 35.4 75.5 84.9 65.4  
 30.6 75.5 84.9 65.4  
 48.9 75.5 84.9 65.4  
 62.8 83.9

NOTE: THIS SURVEY IS PRELIMINARY



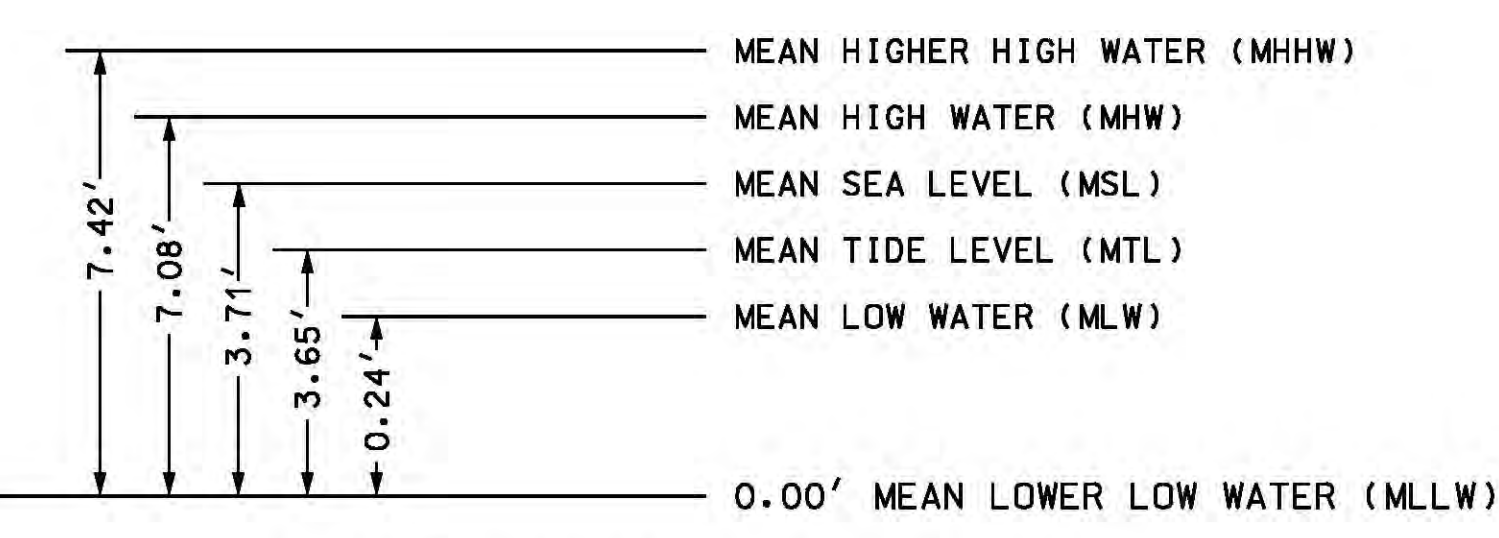
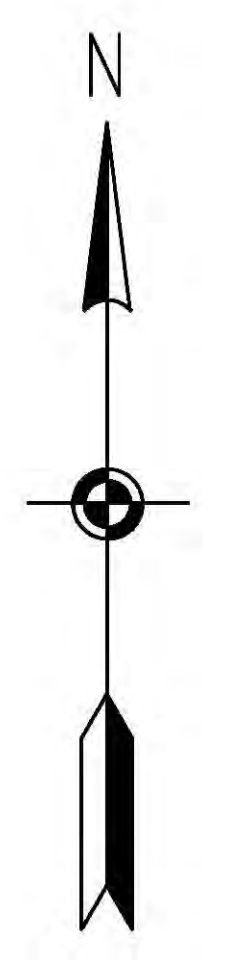
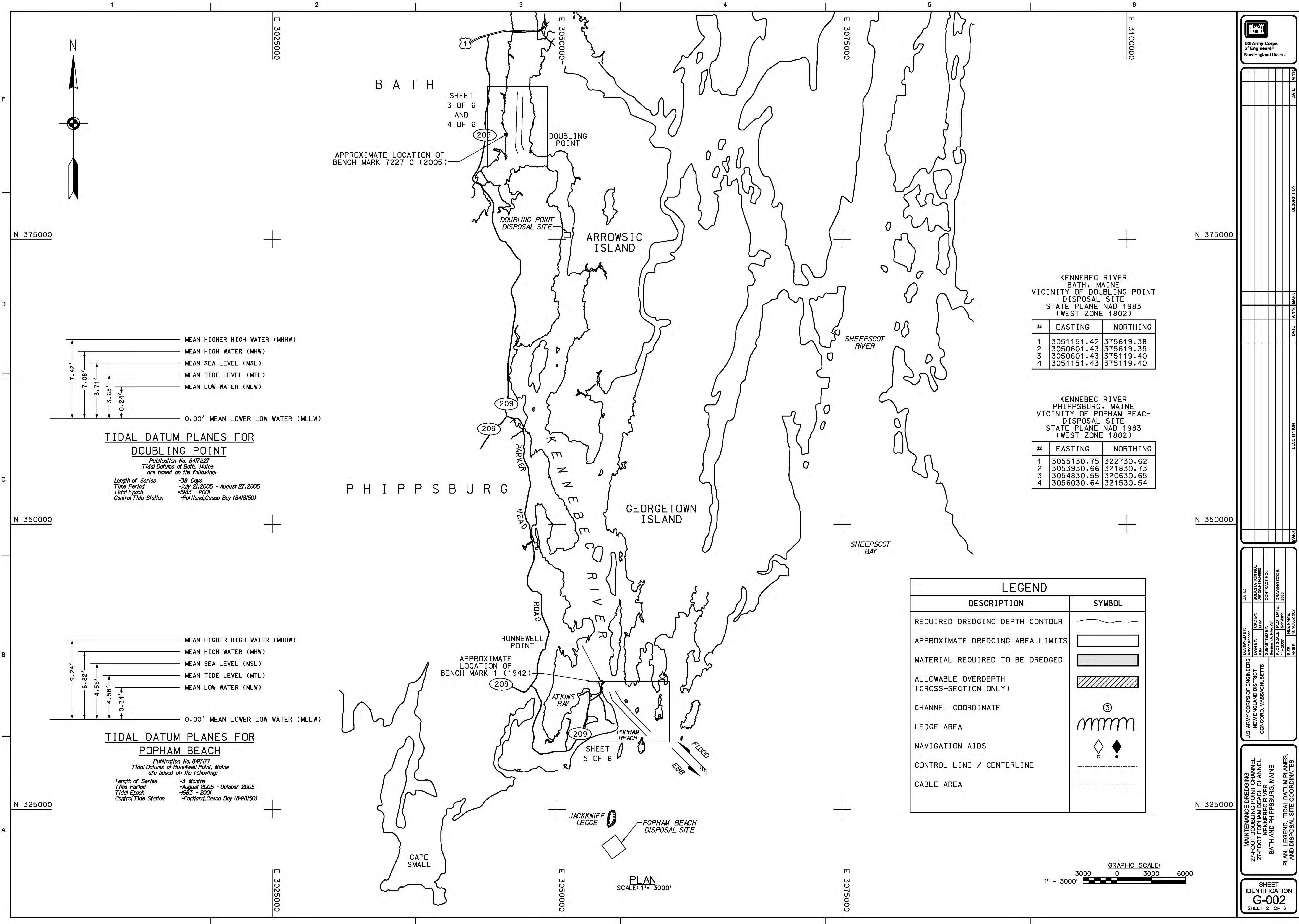
SURVEY BOAT: POPHAM BEACH		PARTY: P.K.O'BRIEN & CREW	
U.S. ARMY CORPS. of ENGINEERS NEW ENGLAND DISTRICT 696 VIRGINIA RD. CONCORD, MA. 01742			
KENNEBEC RIVER BATH, MAINE DISPOSAL AREA			
SORT: 20		BM 7227C (2005) MLLW	
DATUM: MLLW NAD-83 (MAINE WEST ZONE)			
SCALE 1"=200'			

## **February 2011 Hydrographic Surveys**

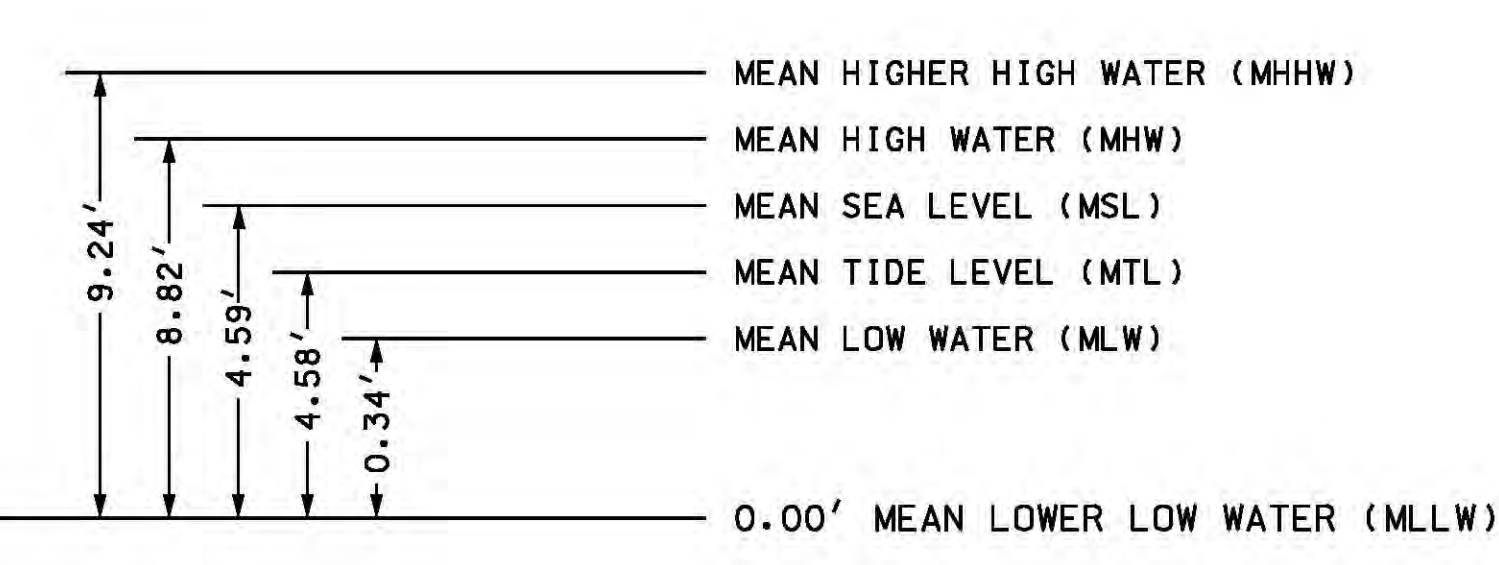
Doubling Point

&

Popham Beach



**TIDAL DATUM PLANES FOR DOUBLING POINT**  
 Publication No. 847227  
 Tidal Datums of Bath, Maine  
 are based on the following:  
 Length of Series -38 Days  
 Time Period -July 21, 2005 - August 27, 2005  
 Tidal Epoch -1983 - 2001  
 Control Tide Station -Portland, Casco Bay (8418150)



**TIDAL DATUM PLANES FOR POPHAM BEACH**  
 Publication No. 847177  
 Tidal Datums at Hunnewell Point, Maine  
 are based on the following:  
 Length of Series -3 Months  
 Time Period -August 2005 - October 2005  
 Tidal Epoch -1983 - 2001  
 Control Tide Station -Portland, Casco Bay (8418150)

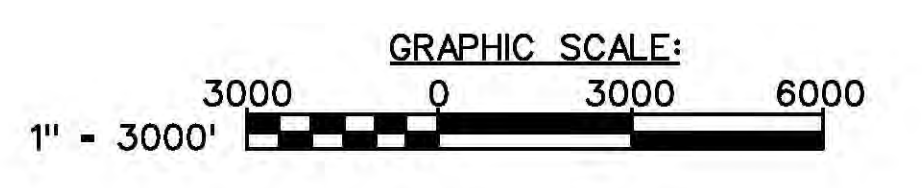
KENNEBEC RIVER  
 BATH, MAINE  
 VICINITY OF DOUBLING POINT  
 DISPOSAL SITE  
 STATE PLANE NAD 1983  
 (WEST ZONE 1802)

#	EASTING	NORTHING
1	3051151.42	375619.38
2	3050601.43	375619.39
3	3050601.43	375119.40
4	3051151.43	375119.40


KENNEBEC RIVER  
 PHIPPSBURG, MAINE  
 VICINITY OF POPHAM BEACH  
 DISPOSAL SITE  
 STATE PLANE NAD 1983  
 (WEST ZONE 1802)

#	EASTING	NORTHING
1	3055130.75	322730.62
2	3053930.66	321830.73
3	3054830.55	320630.65
4	3056030.64	321530.54

LEGEND	
DESCRIPTION	SYMBOL
REQUIRED DREDGING DEPTH CONTOUR	
APPROXIMATE DREDGING AREA LIMITS	
MATERIAL REQUIRED TO BE DREDGED	
ALLOWABLE OVERDEPTH (CROSS-SECTION ONLY)	
CHANNEL COORDINATE	
LEDGE AREA	
NAVIGATION AIDS	
CONTROL LINE / CENTERLINE	
CABLE AREA	



PLAN  
 SCALE: 1" = 3000'



U.S. Army Corps of Engineers  
 New England District

DATE	DESCRIPTION	DATE	DESCRIPTION

DESIGNED BY: [Blank]  
 DRAWN BY: [Blank]  
 CHECKED BY: [Blank]  
 SUBMITTED BY: [Blank]  
 PLOT SCALE: [Blank]  
 PLOT DATE: [Blank]  
 PLOT SIZE: [Blank]  
 FILE NAME: [Blank]  
 ANSIF: [Blank]

U.S. ARMY CORPS OF ENGINEERS  
 NEW ENGLAND DISTRICT  
 CONCORD, MASSACHUSETTS

MAINTENANCE DREDGING  
 27-FOOT DOUBLING POINT CHANNEL  
 27-FOOT POPHAM BEACH CHANNEL  
 BATH AND PHIPPSBURG, MAINE  
 PLAN, LEGEND, TIDAL DATUM PLANES,  
 AND DISPOSAL SITE COORDINATES

SHEET IDENTIFICATION  
**G-002**  
 SHEET 2 OF 6











## **May 2011 Hydrographic Surveys**

Doubling Point

&

Popham Beach