



PREPARED FOR
**THE PORT AUTHORITY
OF NY & NJ**

ROGERS SURVEYING, LLC
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No.	Date	Revision	Approved

VERTICAL CONTROL
Mean Low Water = 2.3' Below 0.00 NGVD '29

HORIZONTAL CONTROL
ALL COORDINATES, BEARING AND DISTANCES ARE REFERENCED TO THE NEW JERSEY PLANE COORDINATE SYSTEM (N.A.D. 83) AS SET FORTH IN N.J.S.A. 51:3-7

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without it's written consent.

Rogers Surveying

BW

DWR

Surveyed by

Drawn by

Checked by

Date

Scale 1"= 80'

12/10/12-01/17/13

Contract Number

Drawing Number

410-12-037

58 of 60

BERTH 94

NOTE: THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THE DATA IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS AND CONTOURS SHOWN ARE FROM 8'X16' GRID NEAREST TO CENTER. COORDINATES REFER TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983) SOUNDINGS REFER TO THE PLANE OF MEAN LOW WATER THE PLANE OF MEAN LOW WATER IS 2.3 FEET BELOW NGVD (1929) THE SOUNDING DATA DEPICTED ON THIS MAP WAS COLLECTED USING CLASS 2 SURVEY STANDARDS IN ACCORDANCE WITH EM 1110 2 1003.

THIS SURVEY WAS COMPLETED USING THE FOLLOWING EQUIPMENT:

- Survey Vessel "Red Rogers"
- Reson 7101 Multibeam
- TSS 320 POS/MV
- Coastal Oceanographics "HYPACK" software

Volume Report			
Design Depth	Volume to Dredge Template	Volume of 2' Over dredge	Total Volume
40'	3,497 yd3	3,456 yd3	6,953 yd3
45'	860 yd3	1,008 yd3	1,868 yd3
TOTAL	4,357 yd3	4,464 yd3	8,821 yd3

NOTE: BERTH LENGTHS, WIDTHS AND DEEP WATER BERTH DIMENSIONS FROM P.A. PORT DEPARTMENT.

Coordinates are expressed in feet and refer to the NEW JERSEY STATE PLANE (NAD 83) System.

Soundings refer to Mean Low Water as determined by U.S.A.C.E.

The Plane of Mean Low Water is 2.3 feet below Mean Sea Level (NGVD 29).

Note:
This survey does not guarantee the absence or presence of any underwater obstructions. Diver verification may be required.

NAVD88

3.42

NGVD29

2.30

MLW (N.O.A.A.)

0.67

MLW (COE) & SURVEY

0.00

I hereby certify to The Port Authority of New York and New Jersey that this map indicates the conditions existing as of the date indicated hereon to the best of my professional knowledge.

William A. Rogers, Jr., P.E., L.S.
New Jersey State # 22254
A.C.S.M. Certified Hydrographer # 151