



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



ROGERS SURVEYING, LLC
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Title

**NEW JERSEY
MARINE
TERMINAL**

**HYDROGRAPHIC
SURVEY**

BERTH COORDINATE LIST

Point	Northing	Easting	Depth (MLW)
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5601	674662.523	587279.399	37.00
5602	674678.092	587291.953	37.00
5603	674286.026	587778.603	37.00
5604	674270.452	587766.056	37.00
5605	674678.092	587291.953	38.00
5606	674689.769	587301.369	38.00
5607	674297.707	587788.014	38.00
5608	674286.026	587778.603	38.00
5609	674689.769	587301.369	40.00
5610	674768.094	587364.526	40.00
5611	674375.612	587850.767	40.00
5612	674297.707	587788.014	40.00

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 12/10/12-01/17/13 Scale 1"= 80'
Contract Number 410-12-037 Drawing Number 38 of 60
BERTH 56

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			
THE DATA USED FOR VOLUME CALCULATIONS IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS USED FOR VOLUME CALCULATIONS ARE ON A 3'X3' GRID WITH THE DEPTH NEAREST TO THE CENTER USED.			
Design Depth	Volume to Dredge Template	Volume of 2' Over dredge	Total Volume
37'	48 yd3	283 yd3	331 yd3
38'	0 yd3	117 yd3	117 yd3
40'	21 yd3	1,427 yd3	1,448 yd3
TOTAL	69 yd3	1,827 yd3	1,896 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.) 0.87
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