This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

Horizontal Reference – NAD 83, New Jersey State Plane, Zone 2900

Vertical Reference – Mean Lower Low Water, which is 2.98' below N.A.V.D.88.

NOAA's Tidal Epoch–1983–2001

Soundings are expressed in feet & tenths and refer to Mean Lower Low Water.

35' Curve of Depth shown thus :

38' Curve of Depth shown thus :

NOTE:

The information depicted on this map represent the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

The positions of the aids to navigation are provided for information only, and should not be used for navigation.

Lead Lines Soundings

Position No.	Machine Sdg.	Light Lead	Heavy Lead
1 LL1	32.3	31.4	31.9
2 LL2	30.8	32.4	34.4
3 LL3	28.8	30.4	31.4
4 LL4	31	31.2	34.2
5 LL5	32.6	33.6	34.1
6 LL6	32.7	34.7	38.7
7 LL7	34.2	35.4	34.6

US Army Corps of Engineers
Philadelphia District

Mark	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA
CORPS OF ENGINEERS
PHILADELPHIA, PENNSYLVANIA

TRACED BY J.A.Groch | PLOTTED BY W.Miller | DRAWING NO. 63678
SURVEYED BY J.Gray | DATE SURVEYED 3 Dec 12 | APPROVED

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | IFB W912BU-
Reviewed by: | Drawing code:
Submitted by: | File name: | Plot date: 12/6/12 | Plot scale: 1in to 200 ft
Chief, Arch. Branch

CHRISTINA RIVER, DELAWARE
WILMINGTON HARBOR
EXAMINATION
STA.0+000 TO STA 6+236.8.

Sheet reference number:

Sheet 1 of 1