



5. SOUNDINGS WERE SELECTED FOR PLOTTING PURPOSES ONLY, USING THE MINIMUM DEPTH WITHIN A 30'X30' CELL SHIFTED TO THE CELL CENTER.
6. CONTOURS DEPICT ACTUAL LOCATION OF BATHYMETRY AND DO NOT NECESSARILY REFLECT PLOTTED SOUNDING LOCATIONS.
7. CONTOURS WERE GENERATED USING THE MINIMUM DEPTH WITHIN A 15'X15' CELL.
8. HPACK, INC. SOFTWARE WAS USED TO PERFORM THE SOUNDING SELECTION AND CONTOUR GENERATION.
9. 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.

10. THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.
11. THE LIMITS OF THE FEDERAL CHANNEL
DEPICT THE MOST CURRENT CHANNEL
FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:
<http://navigation.usace.army.mil/Survey/Framework>
12. BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.



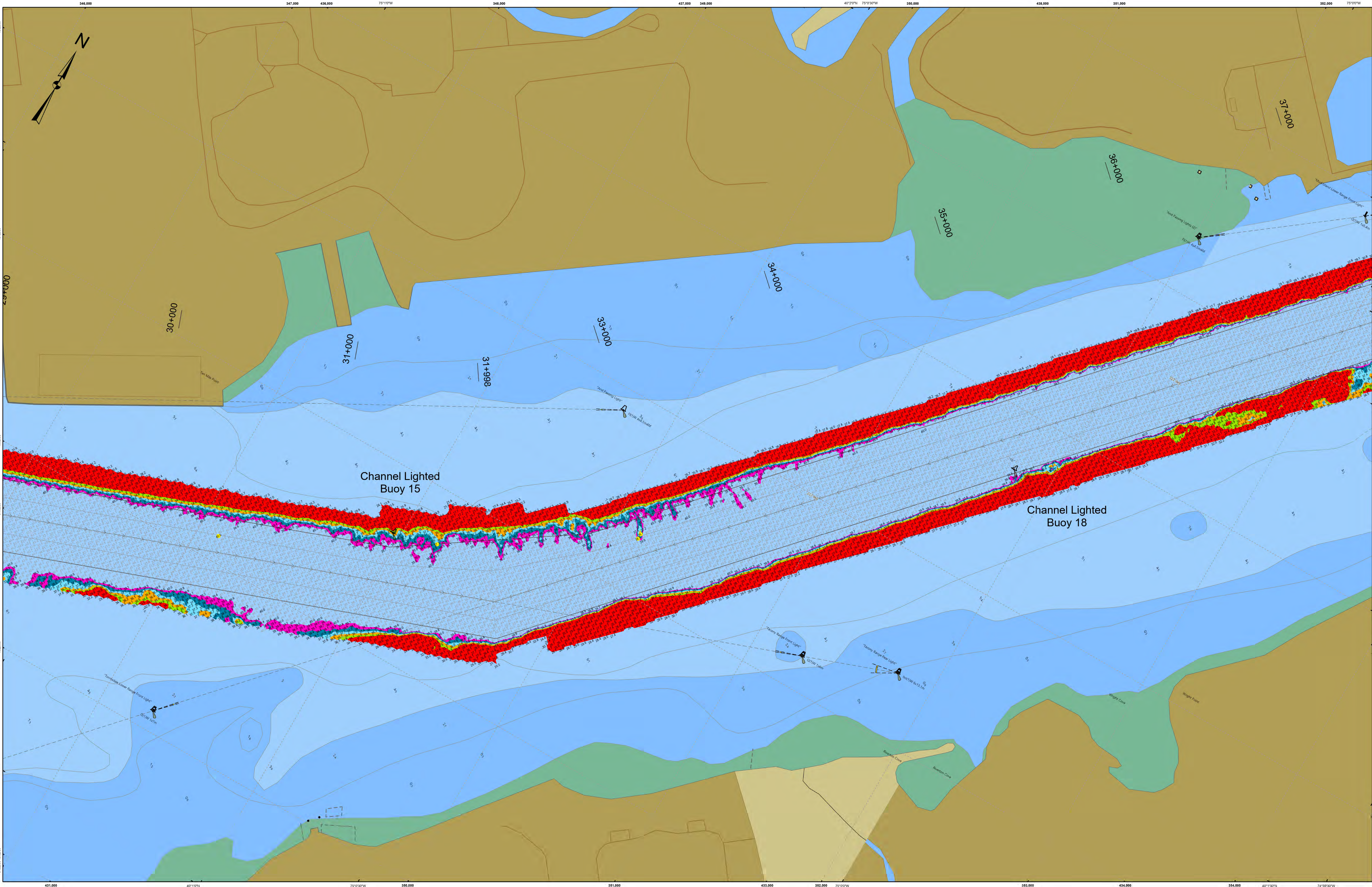
STA. 18+478 to STA. 24+877 -- 25 MAR 25
STA. 24+877 to STA. 31+998 -- 08 APR 25
STA. 31+998 to STA. 40+438 -- 09 APR 25

[illegible]

U.S. ARMY CORPS OF ENGINEERS PHILADELPHIA DISTRICT		Surveyed By _____
Drawing Into _____	Plotted By _____	E. Anthony _____
Plot Scale _____	Checked By _____	_____
Approved _____	Chief Survey Section	_____

DELAWARE RIVER, PHILADELPHIA TO TRENTON
FRANKFORD RANGE TO TORRESDALE RANGE
EXAMINATION
STA. 18+478 to STA. 40+438

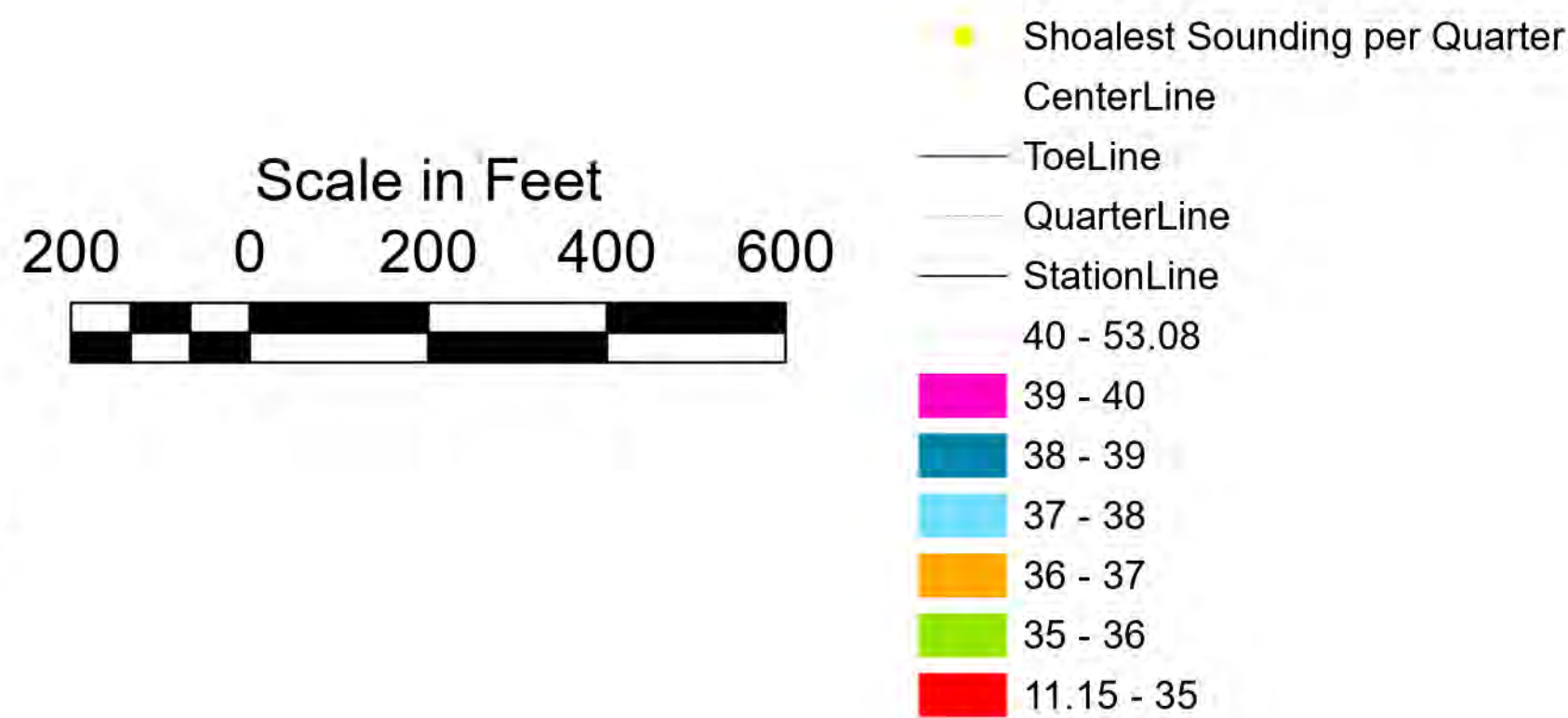
E-PT-89

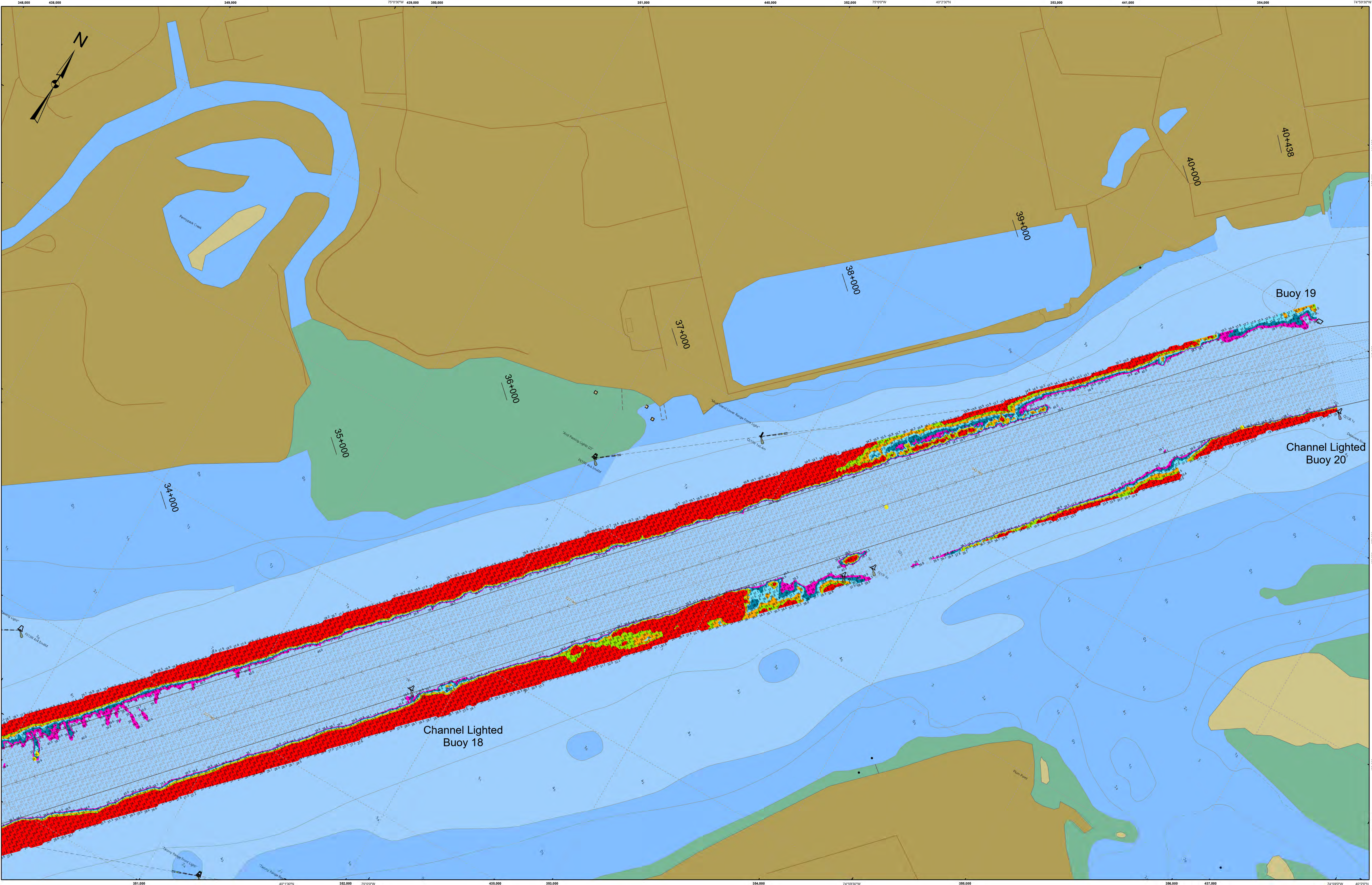


1. THIS SURVEY MEETS STANDARDS AS OUTLINED IN CORPS OF ENGINEERS' HYDROGRAPHIC SURVEY MANUAL EM1110-2-1003, DATED NOVEMBER 30, 2013 FOR NAVIGATION AND DREDGING SUPPORT SURVEYS.
2. HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.
3. VERTICAL REFERENCE - MEAN LOWER LOW WATER, WHICH IS BELOW N.A.V.D. 88 BY THE FOLLOWING:
3.19' from STA. 10+651.37 to STA. 79+508.34
4. GEOID 12B AND NOAA TIDAL EPOCH: 1983 - 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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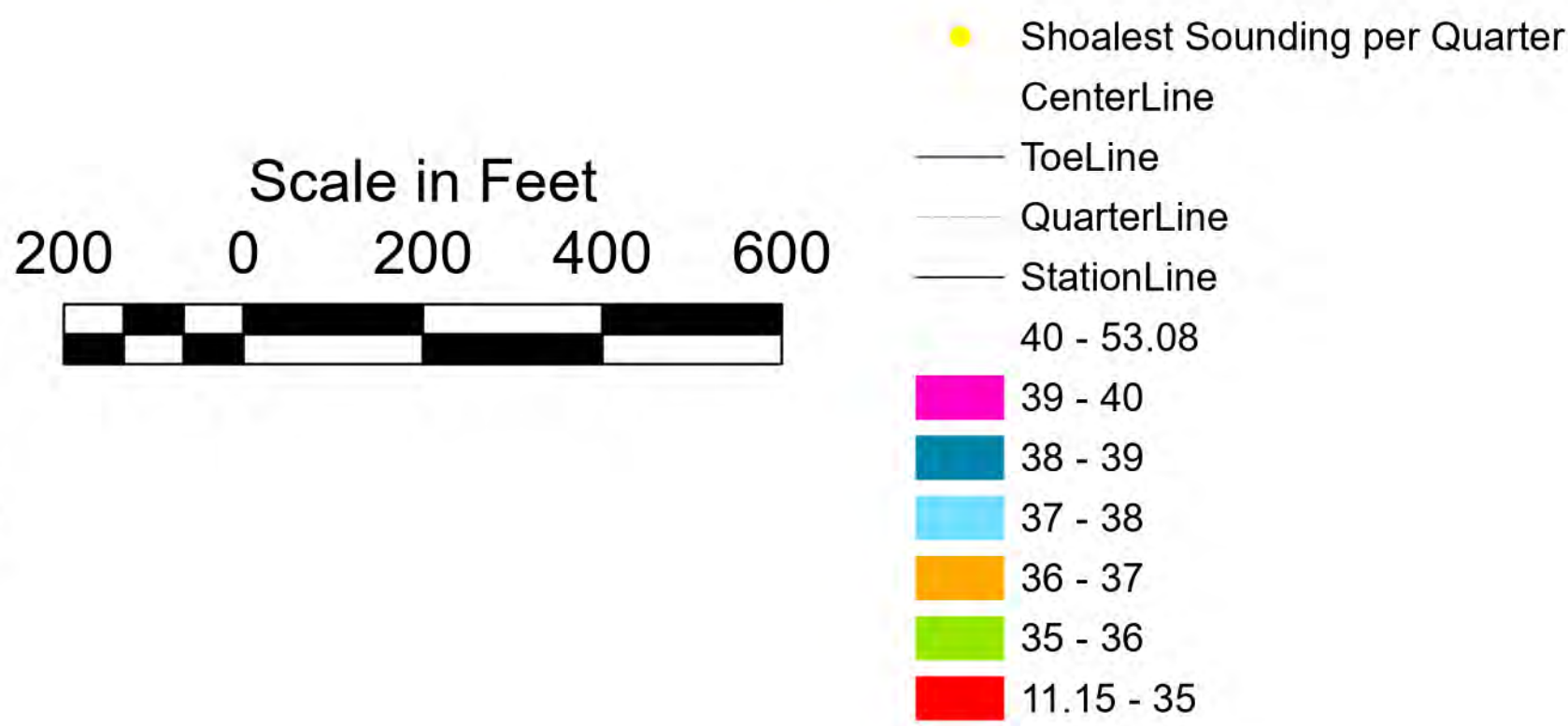




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US Army Corps of Engineers
Philadelphia District

STA. 18+478 to STA. 24+877 - 25 MAR 25
STA. 24+877 to STA. 31+998 - 08 APR 25
STA. 31+998 to STA. 40+438 - 09 APR 25

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Drawing No.	Surveyed By	
	PHILADELPHIA DISTRICT	
Plot Scale	Plotted By	
	E. Anthony	
Approved	Checked By	
	Chief, Survey Section	

DELAWARE RIVER, PHILADELPHIA TO TRENTON
FRANKFORD RANGE TO TORRESDALE RANGE
EXAMINATION
STA. 18+478 to STA. 40+438

E-PT-89