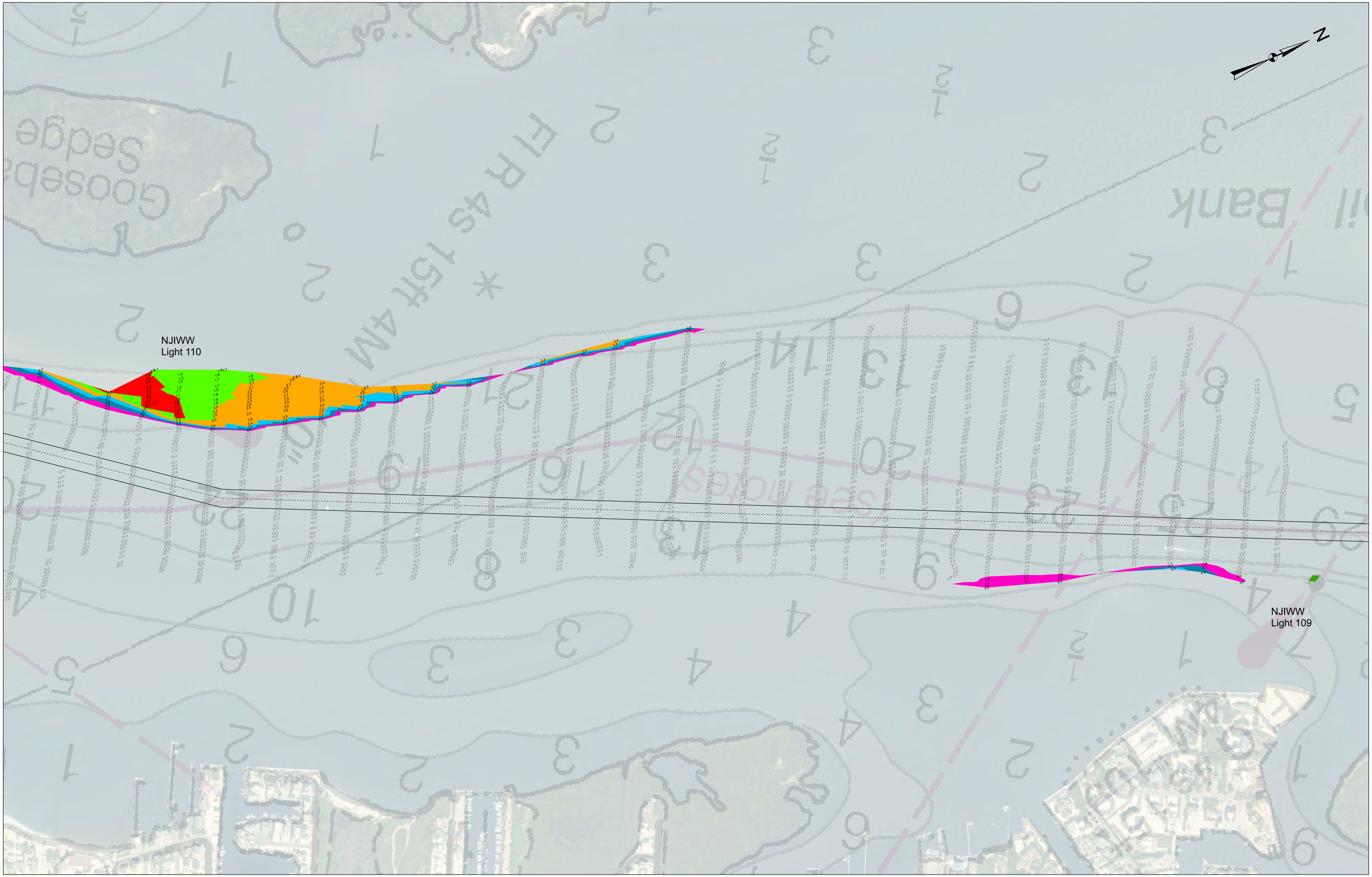
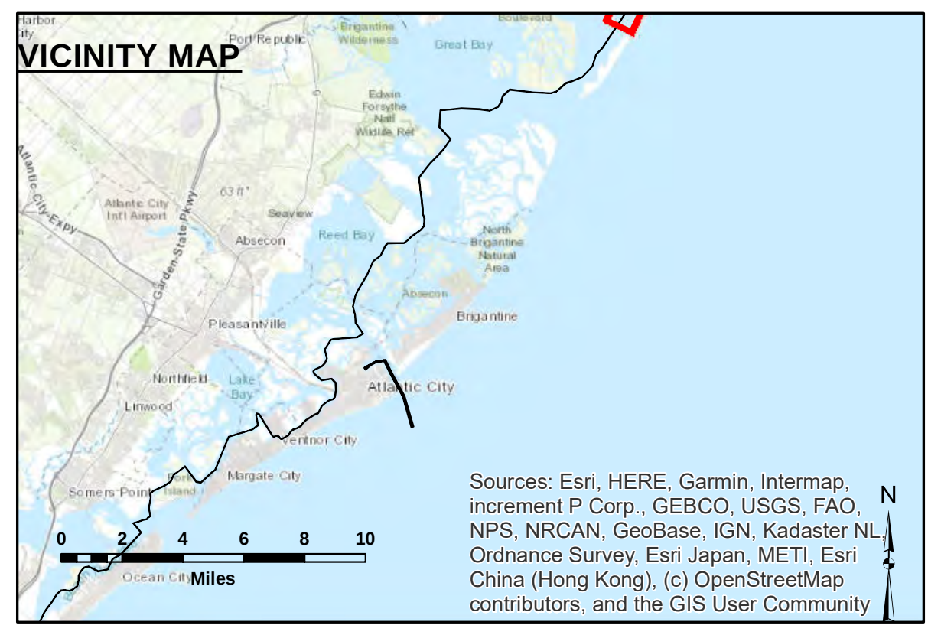




Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

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.

Scale in Feet
200 0 200 400 600

Legend

◆ Green Buoy
◆ Red Buoy
● Shoalest Sounding per Quarter
— Channel Framework
- - - Centerline

6 - 52.12
🟪 5 - 6
🟦 4 - 5
🟦 3 - 4
🟧 2 - 3
🟩 1 - 2
🟥 -4.33 - 1

US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

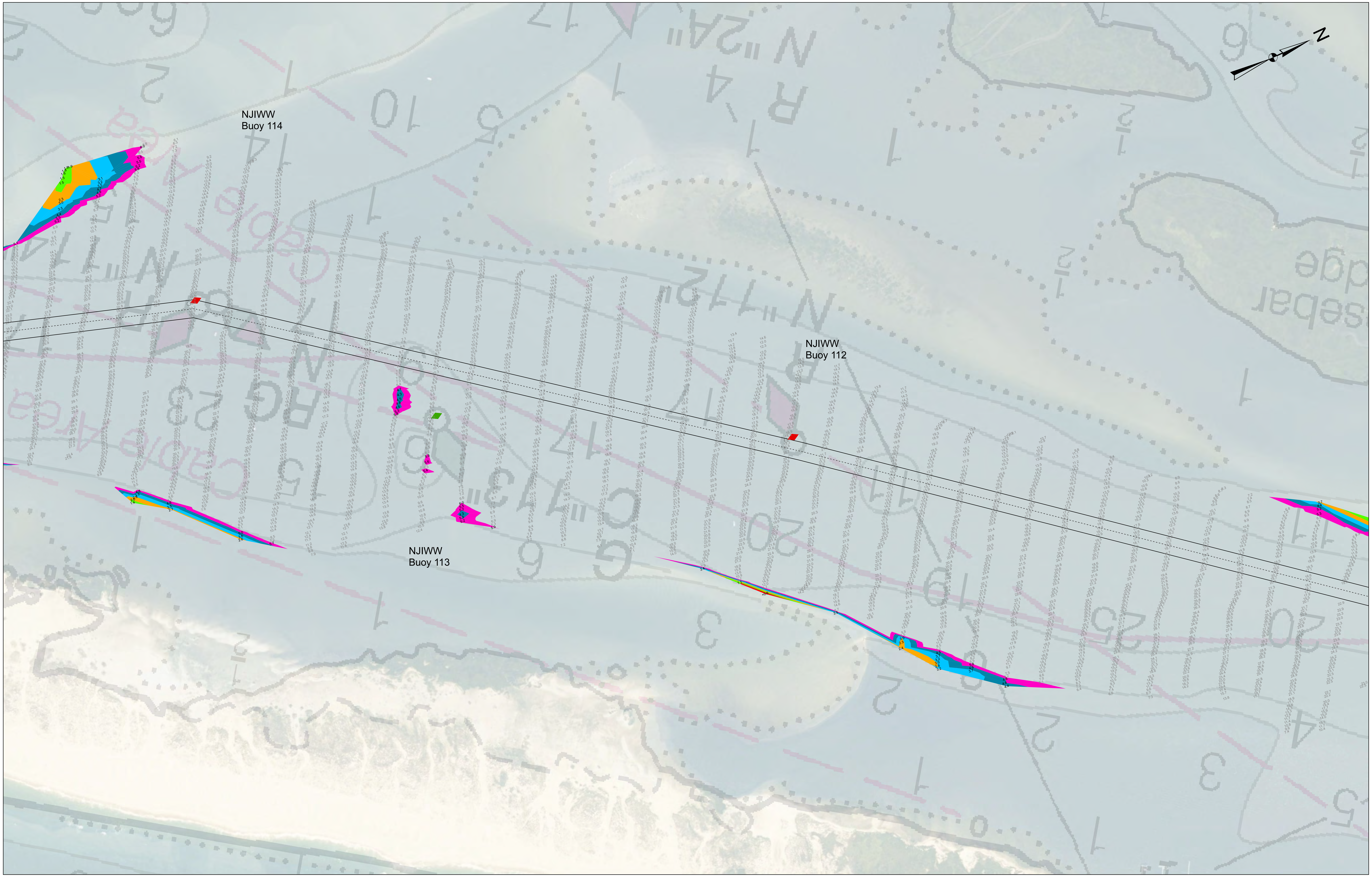
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Drawing No:
Plotted By:
E. Anthony
Plot Scale:
Checked By:
Approved: ____________
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



US Army Corps of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

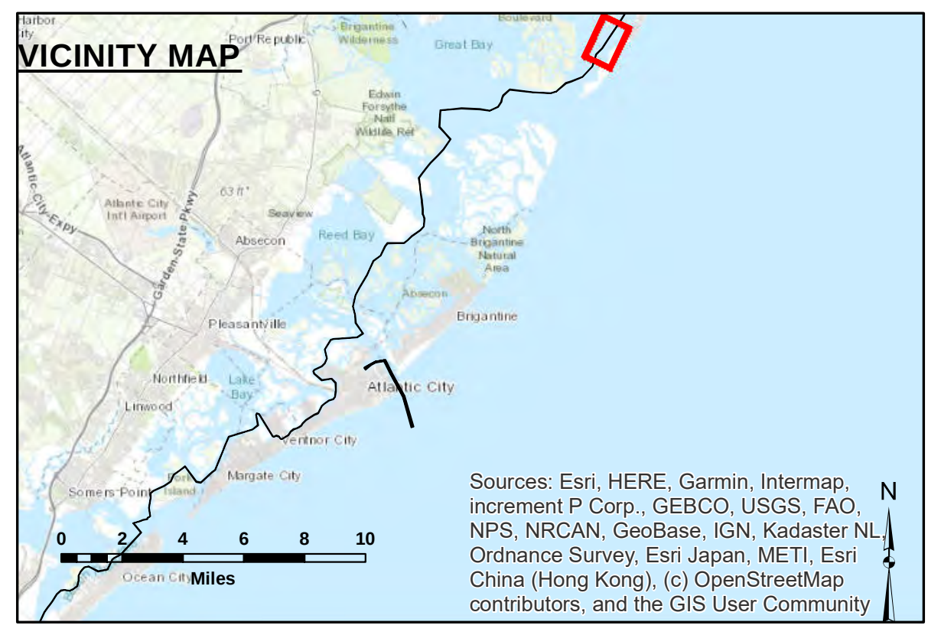
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Drawing No:
Plotted By:
E. Anthony
Plot Scale:
Checked By:
Approved:
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

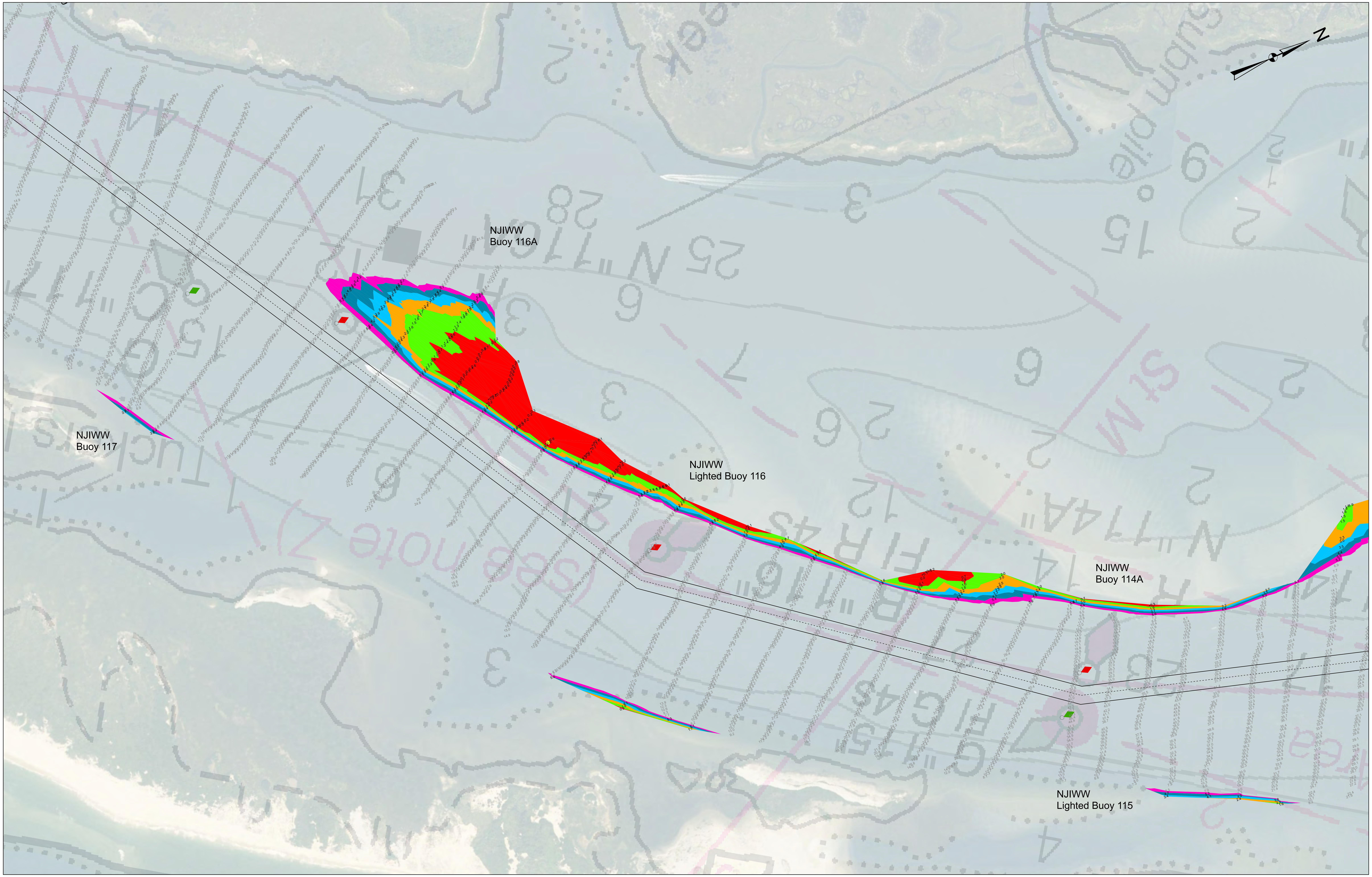
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

♦ Green Buoy
♦ Red Buoy
● Shoalest Sounding per Quarter
— Channel Framework
---- Centerline

6 - 52.12
🟪 5 - 6
🟦 4 - 5
🟦 3 - 4
🟧 2 - 3
🟩 1 - 2
🟥 -4.33 - 1



US Army Corps of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

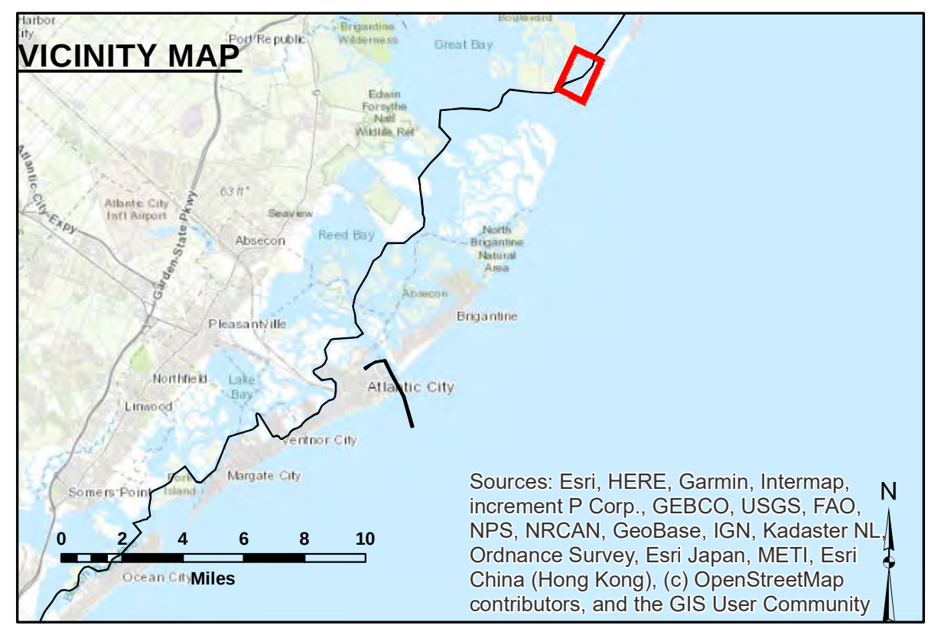
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No:
Plot Scale:
Approved: Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23


VICINITY MAP

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

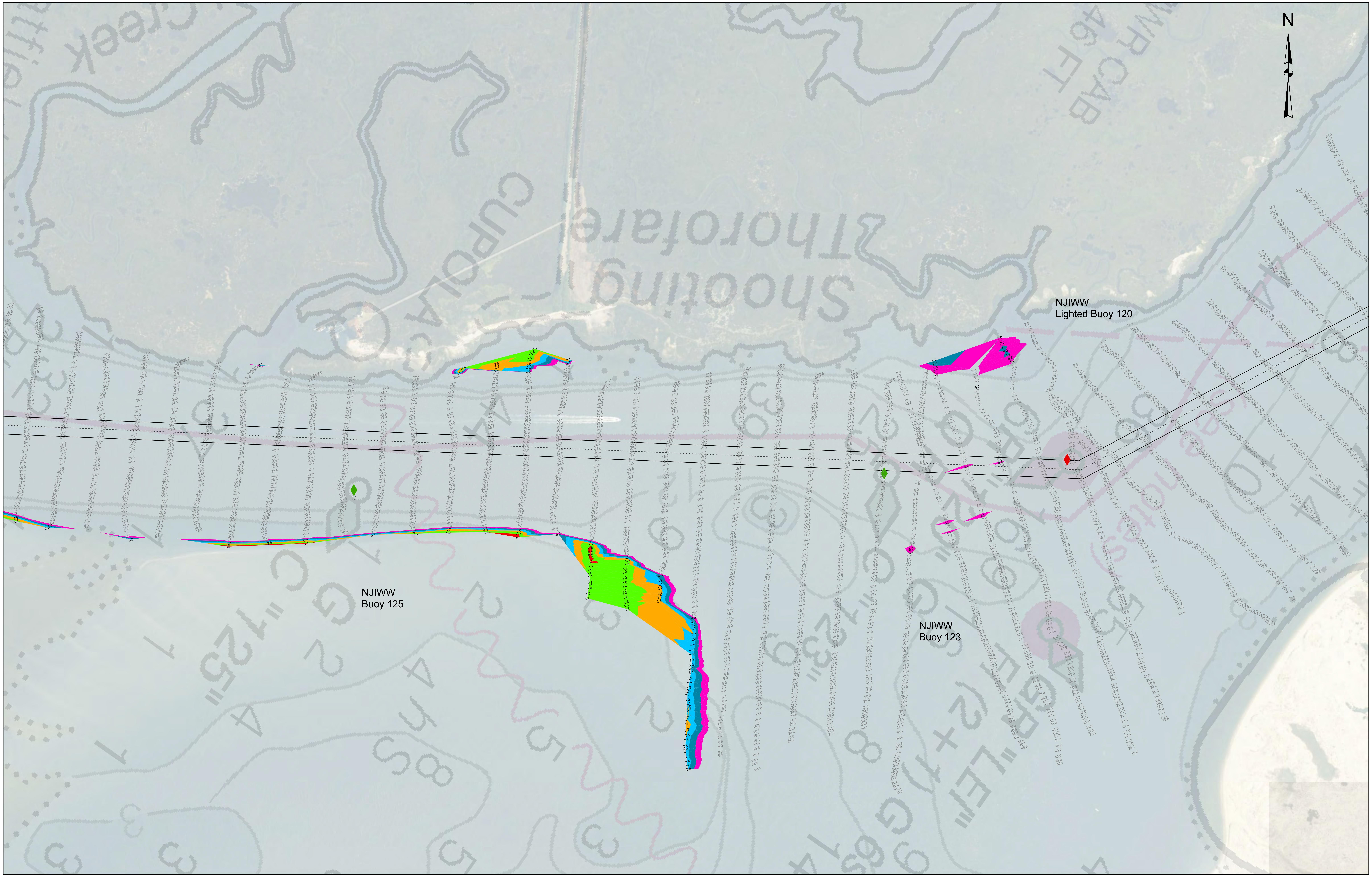
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
- - -	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1



US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23	MKR #165 to MKR #174 -- 12 SEP 23
MKR #110 to MKR #115 -- 14 NOV 23	MKR #174 to MKR #184 -- 11 SEP 23
MKR #115 to MKR #116 -- 14 NOV 23	MKR #184 to MKR #199 -- 31 AUG 23
MKR #116 to MKR #125 -- 15 NOV 23	MKR #199 to MKR #204 -- 29 AUG 23
MKR #125 to MKR #129 -- 16 NOV 23	MKR #204 to MKR #209 -- 11 JUL 23
MKR #129 to MKR #130C -- 13 MAY 24	MKR #209 to MKR #211 -- 12 JUL 23
MKR #130C to MKR #145 -- 14 MAY 24	MKR #211 to MKR #222 -- 20 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23	MKR #222 to MKR #231 -- 28 AUG 23
MKR #147 to MKR #150 -- 12 SEP 23	MKR #231 to MKR #246 -- 24 AUG 23
MKR #150 to MKR #165 -- 30 AUG 23	MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

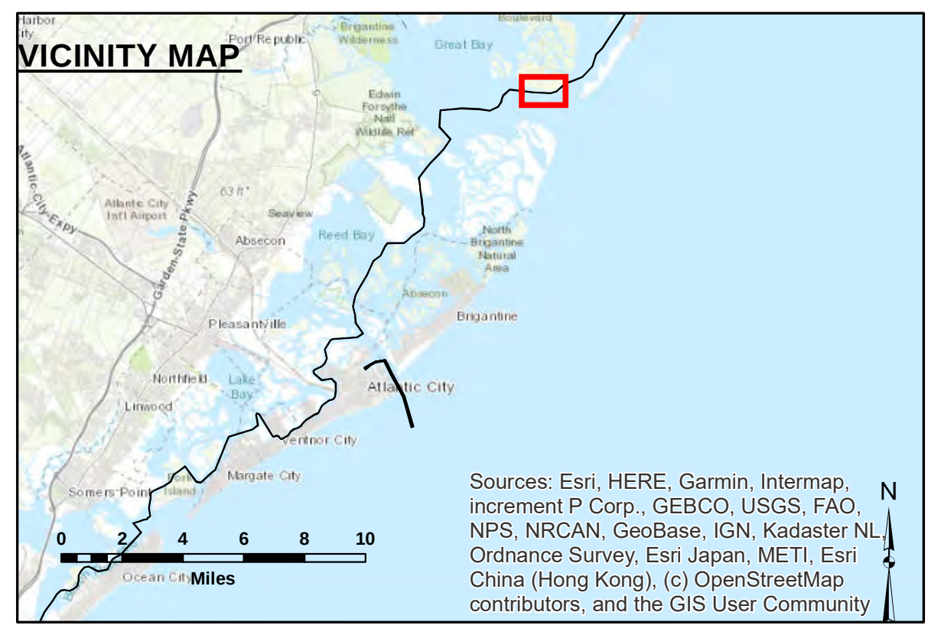
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No:
Plot Scale:
Approved: Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

THE LIMITS OF THE FEDERAL CHANNEL DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:

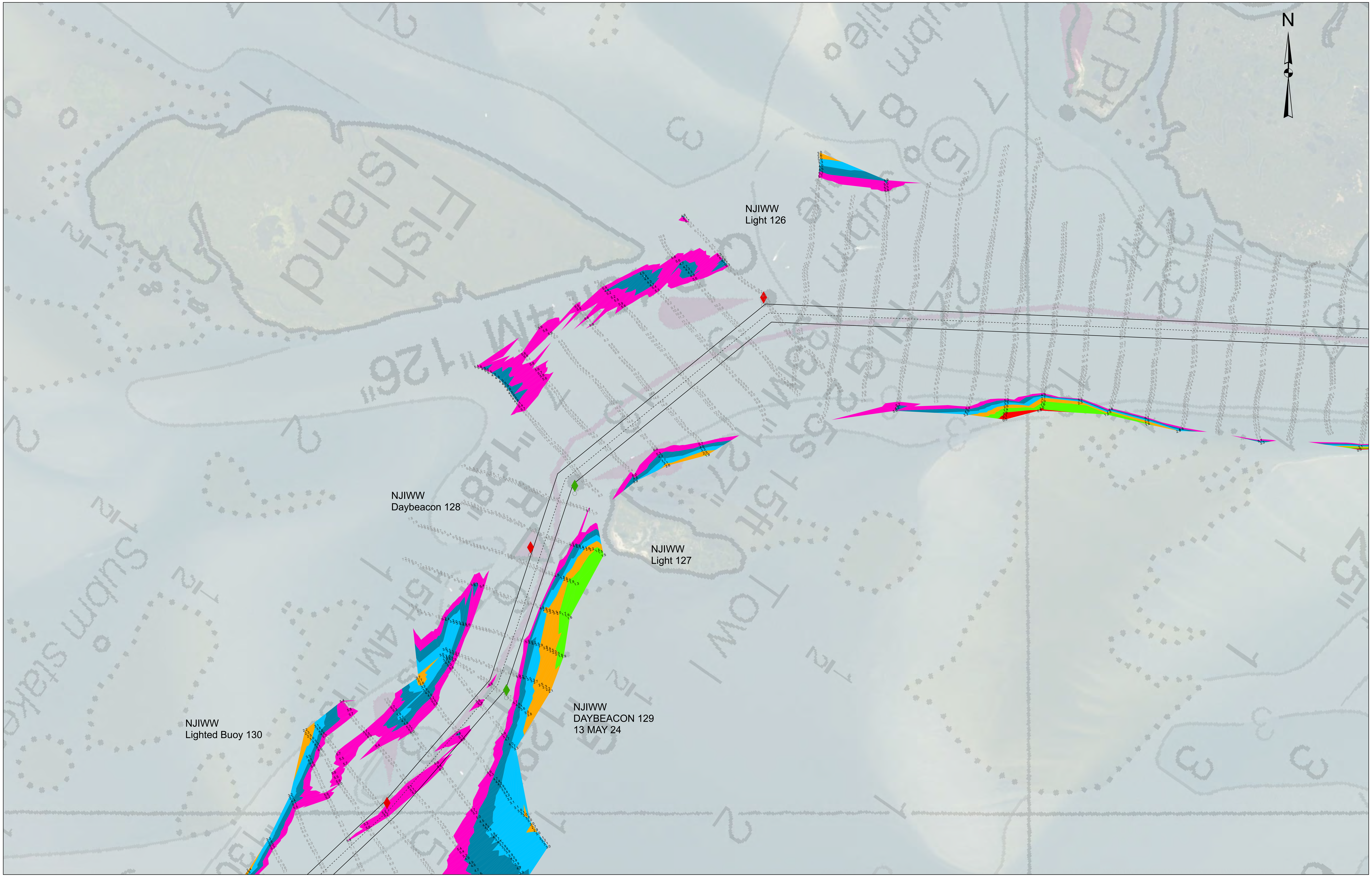
http://navigation.usace.army.mil/Survey/Framework

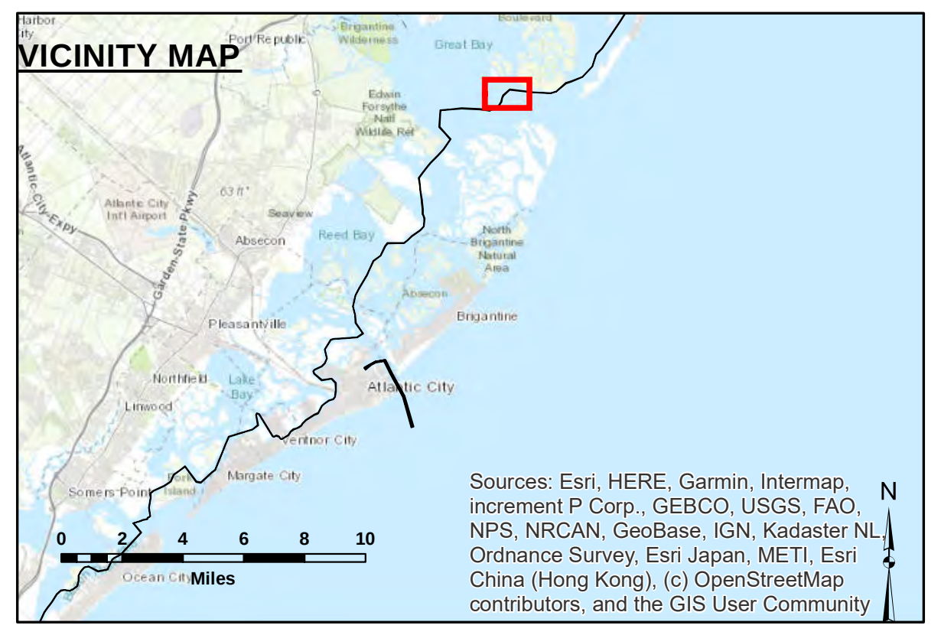
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES.
TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

◆ Green Buoy	6 - 52.12
◆ Red Buoy	🟪 5 - 6
● Shoalest Sounding per Quarter	🟦 4 - 5
─── Channel Framework	🟦 3 - 4
- - - - Centerline	🟧 2 - 3
	🟩 1 - 2
	🟥 -4.33 - 1




VICINITY MAP
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
Miles
N

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

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.

Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
- - -	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1

US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

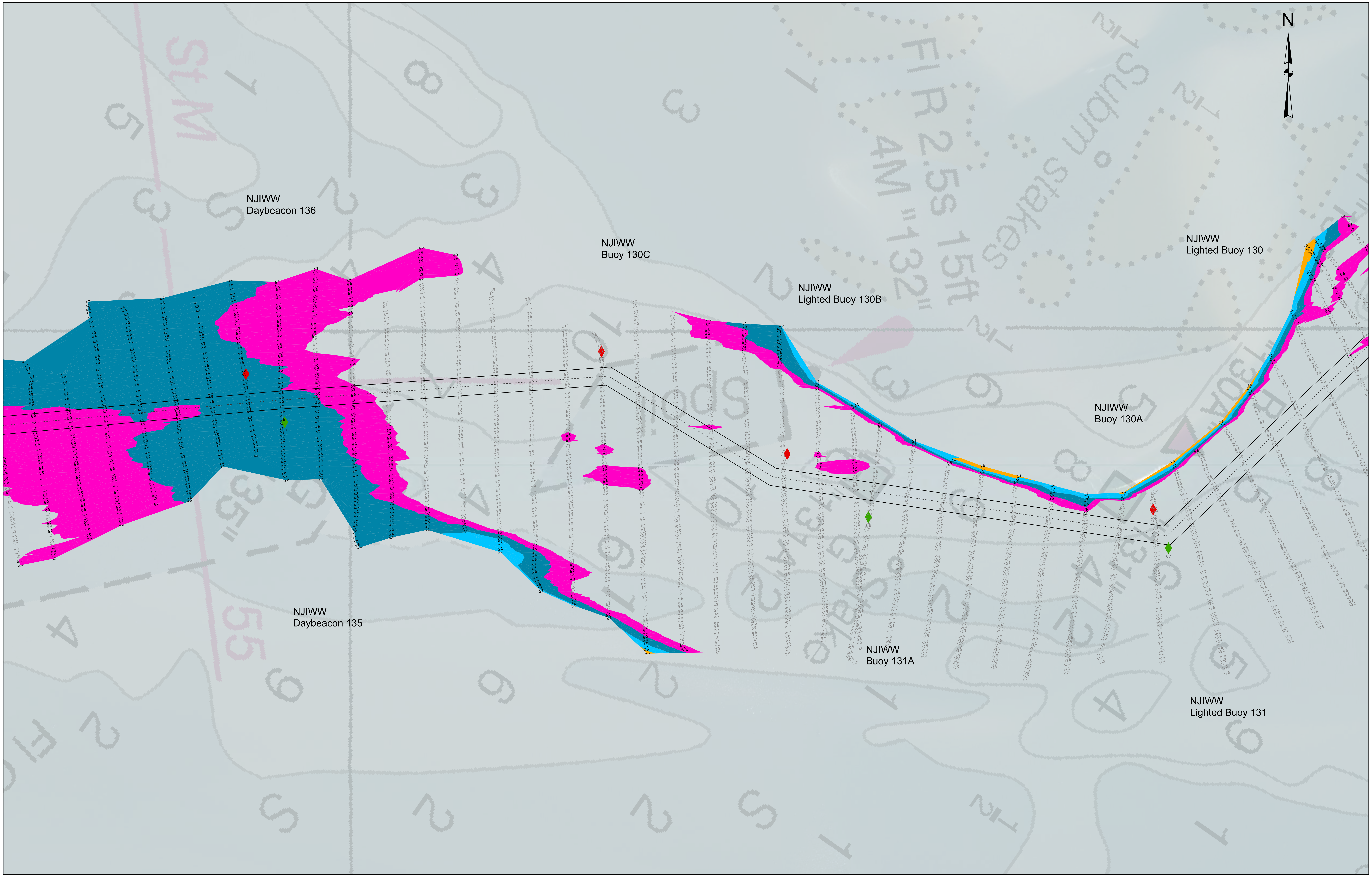
Drawing No:
Plot Scale:
Approved: Chief, Surveys Section

Surveyed By:
Plotted By: E. Anthony
Checked By:

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



**US Army Corps
of Engineers
Philadelphia District**

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guarantees or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

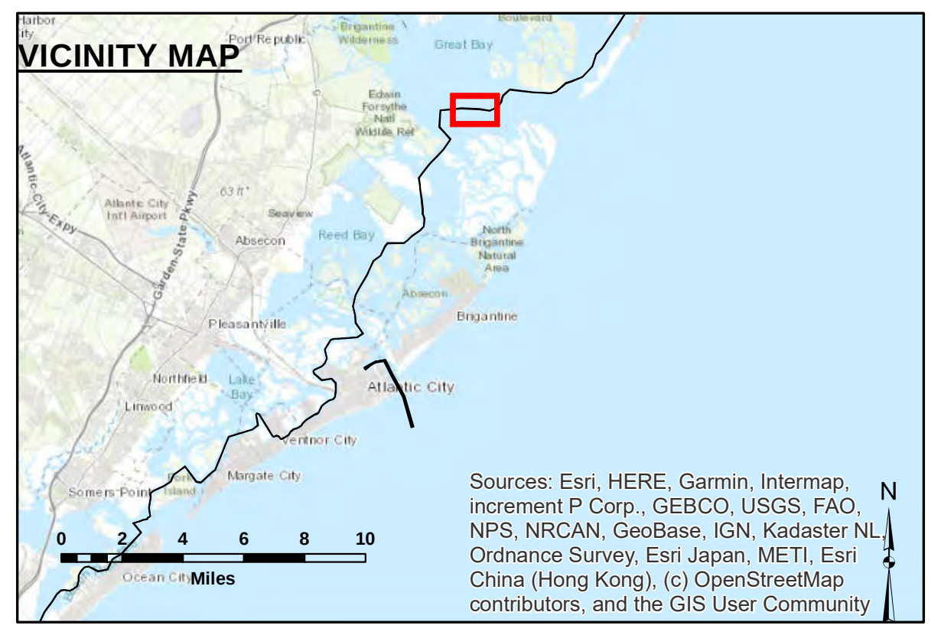
Surveyed By:
Drawing No:
Plotted By:
E. Anthony
Plot Scale:
Checked By:
Approved:
Chief, Surveys Section

**NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251**

EXAMINATION

IW-23

VICINITY MAP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

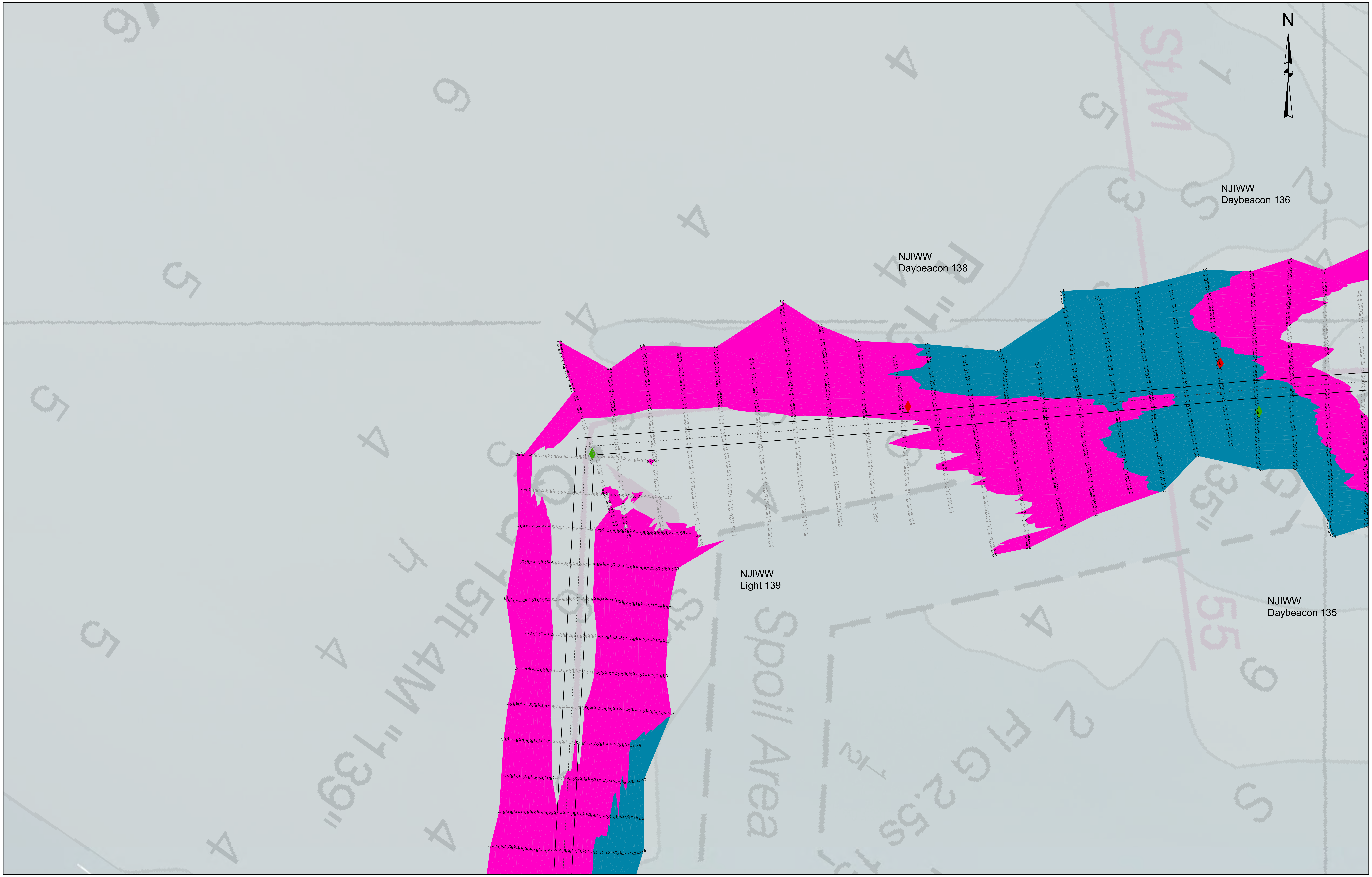
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES.
TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
----	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1



US Army Corps of Engineers Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23	MKR #165 to MKR #174 -- 12 SEP 23
MKR #110 to MKR #115 -- 14 NOV 23	MKR #174 to MKR #184 -- 11 SEP 23
MKR #115 to MKR #116 -- 14 NOV 23	MKR #184 to MKR #199 -- 31 AUG 23
MKR #116 to MKR #125 -- 15 NOV 23	MKR #199 to MKR #204 -- 29 AUG 23
MKR #125 to MKR #129 -- 16 NOV 23	MKR #204 to MKR #209 -- 11 JUL 23
MKR #129 to MKR #130C -- 13 MAY 24	MKR #209 to MKR #211 -- 12 JUL 23
MKR #130C to MKR #145 -- 14 MAY 24	MKR #211 to MKR #222 -- 20 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23	MKR #222 to MKR #231 -- 28 AUG 23
MKR #147 to MKR #150 -- 12 SEP 23	MKR #231 to MKR #246 -- 24 AUG 23
MKR #150 to MKR #165 -- 30 AUG 23	MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

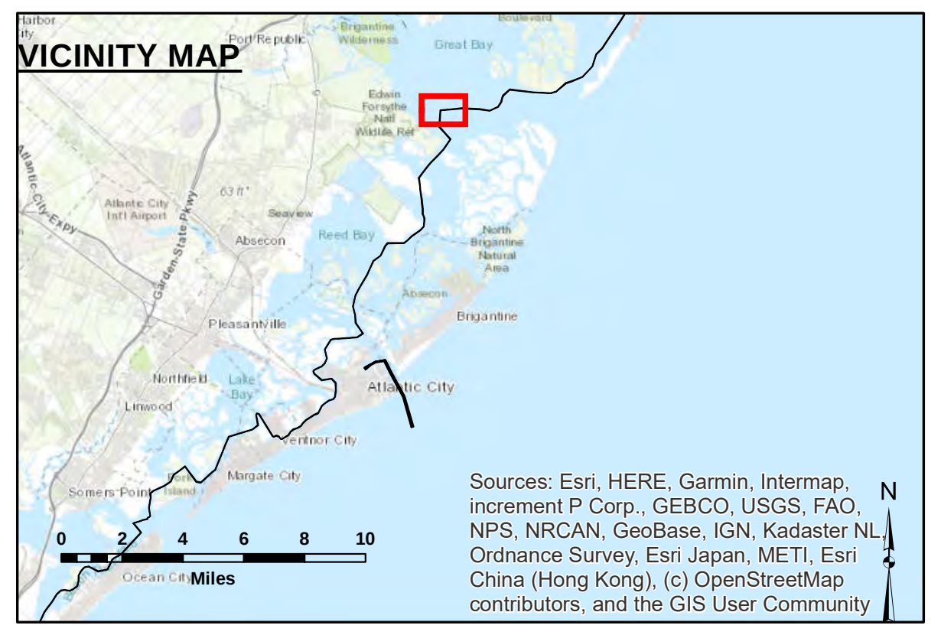
Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No:
Plot Scale:
Approved: Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23

VICINITY MAP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

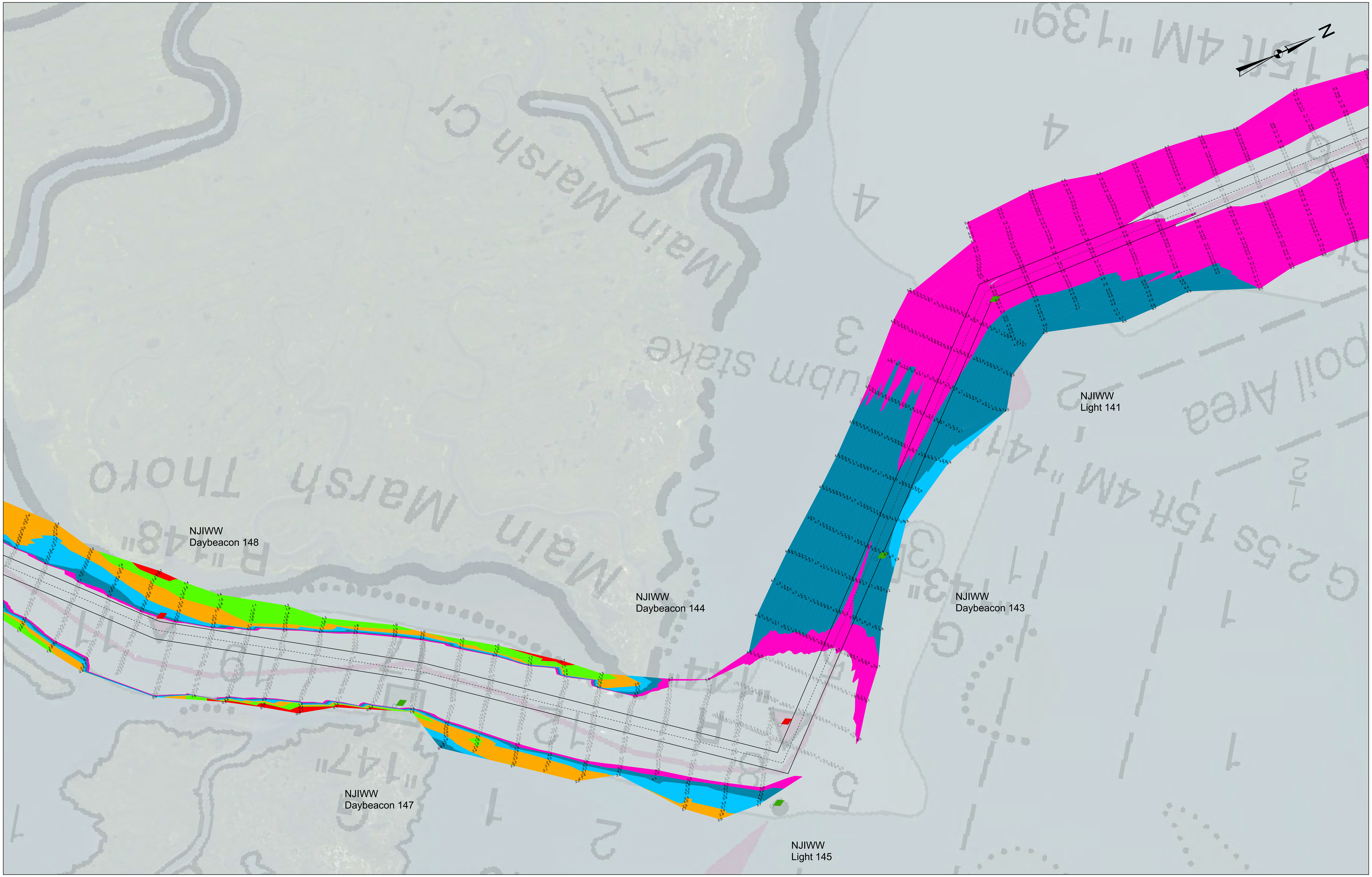
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

◆ Green Buoy
◆ Red Buoy
● Shoalest Sounding per Quarter
— Channel Framework
-------- Centerline

6 - 52.12
🟪 5 - 6
🟦 4 - 5
🟦 3 - 4
🟧 2 - 3
🟩 1 - 2
🟥 -4.33 - 1



US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

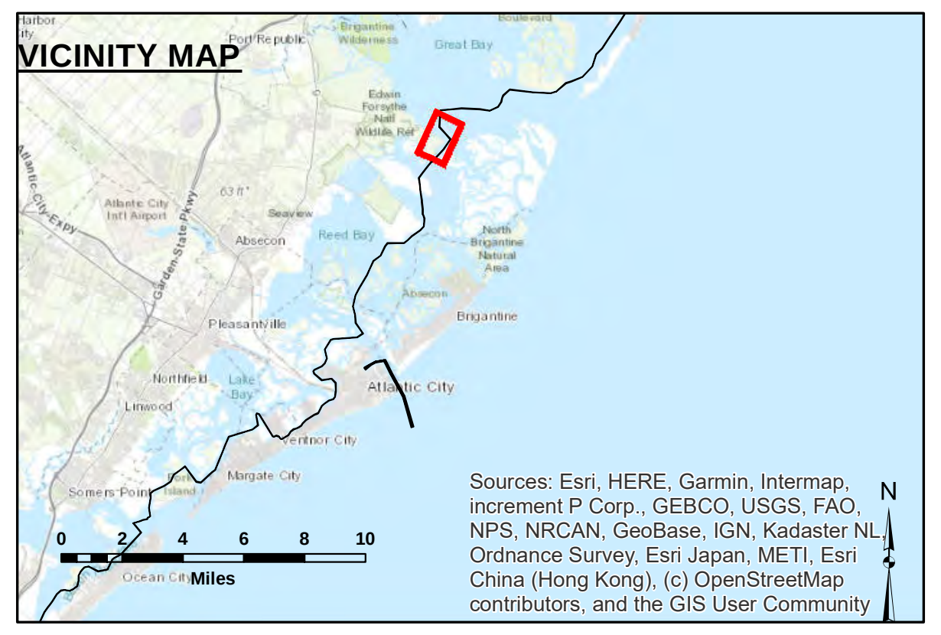
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No:
Plot Scale:
Approved: ____________
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

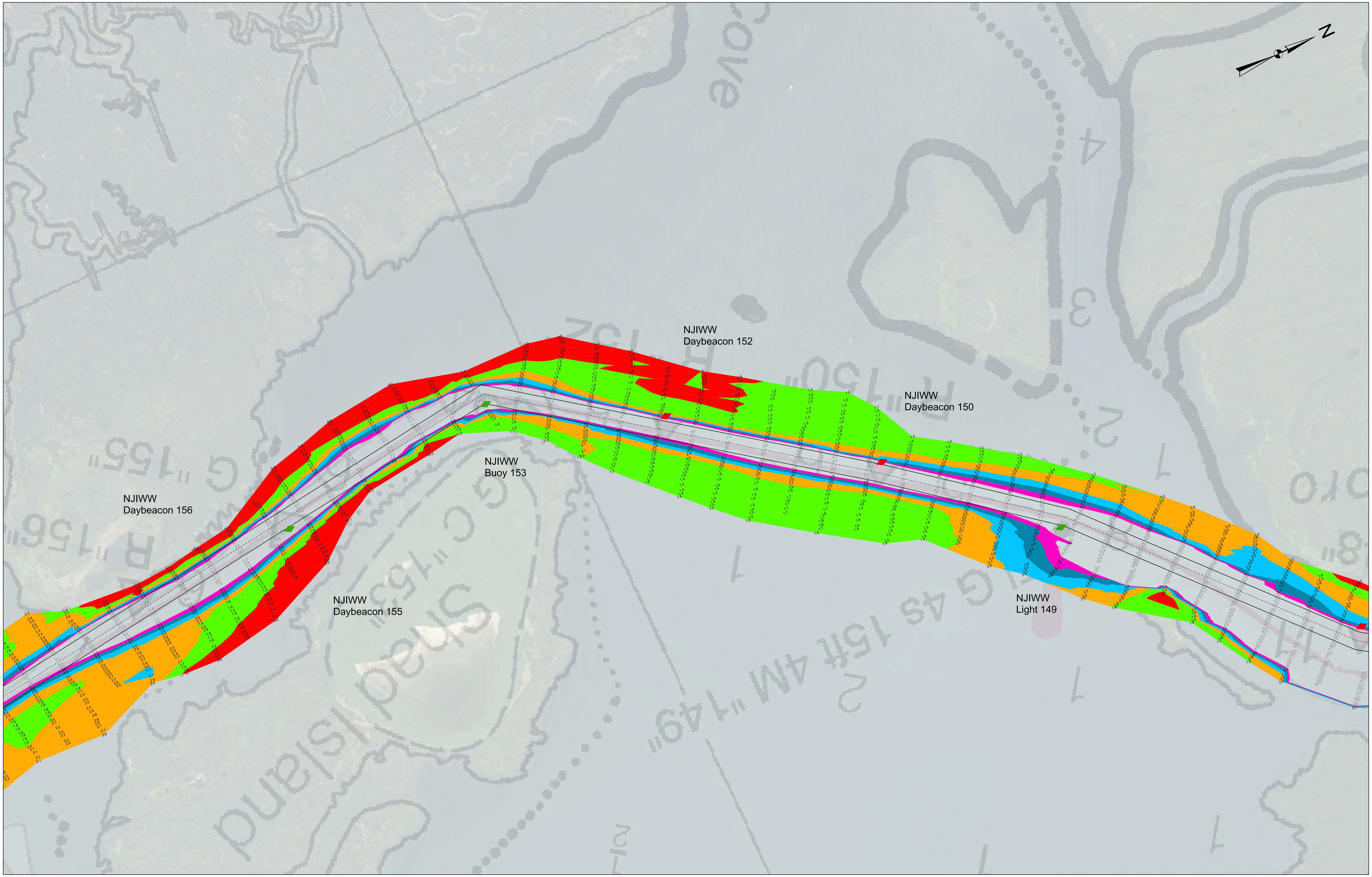
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

◆ Green Buoy
◆ Red Buoy
● Shoalest Sounding per Quarter
— Channel Framework
---- Centerline

6 - 52.12
🟪 5 - 6
🟦 4 - 5
🟦 3 - 4
🟧 2 - 3
🟩 1 - 2
🟥 -4.33 - 1



US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

Surveyed By:

Plotted By:
E. Anthony

Checked By:

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Drawing No:

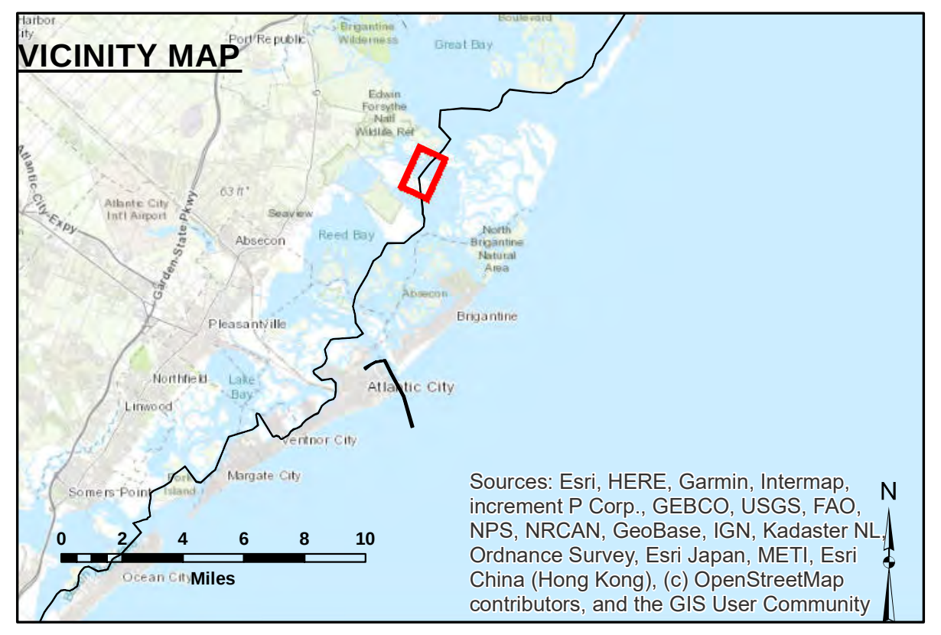
Plot Scale:

Approved:
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

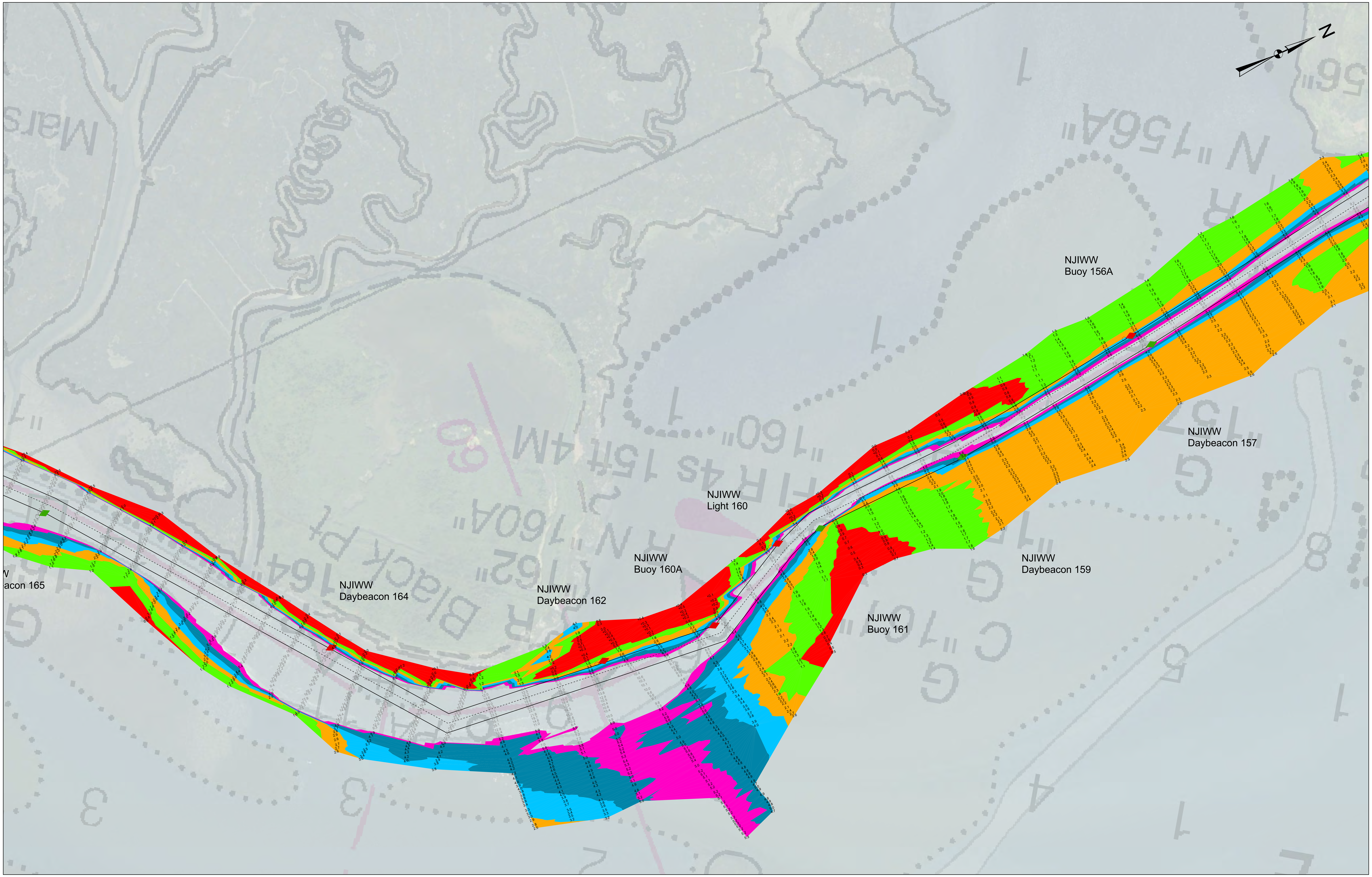
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

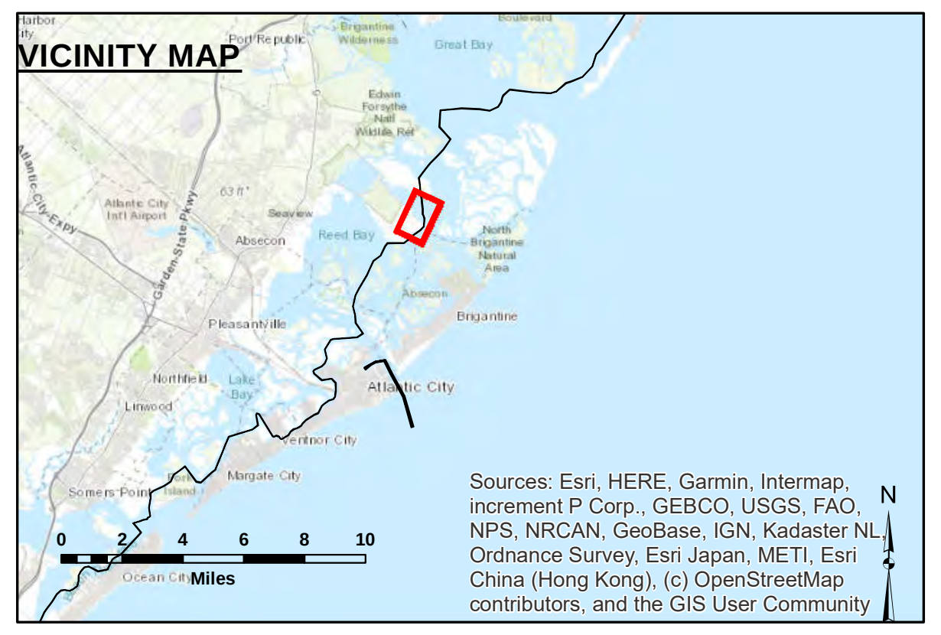
Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
----	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1




VICINITY MAP
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
N
Miles

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

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.

Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
─	Channel Framework
┄	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1

US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

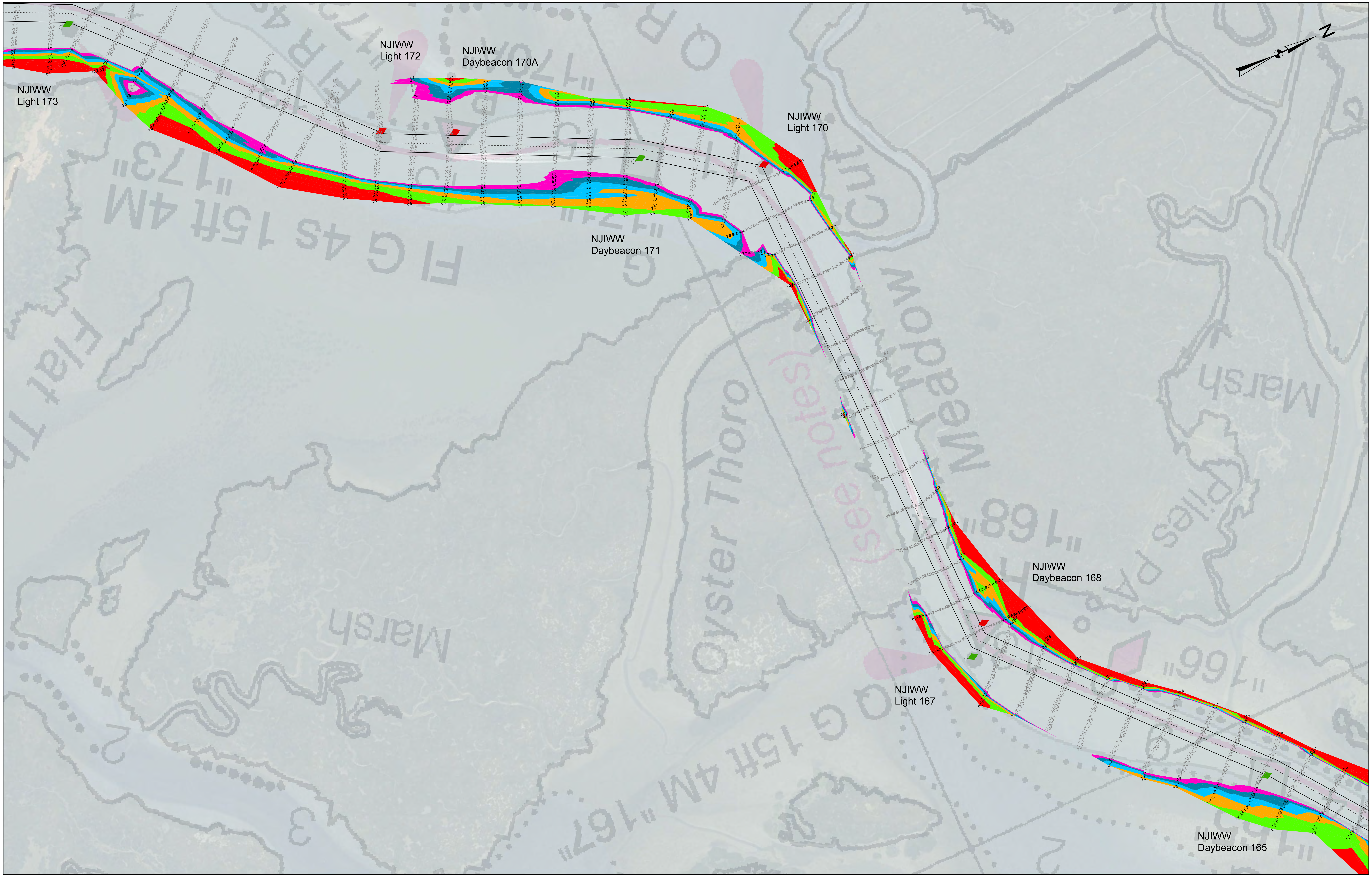
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

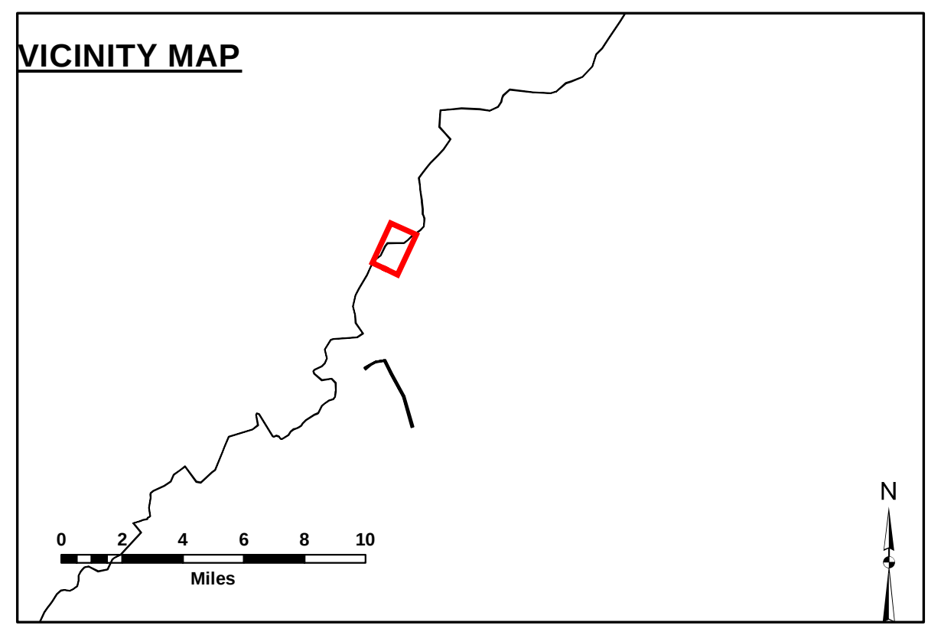
Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No:
Plot Scale:
Approved: Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23





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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

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.

Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
---	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1

US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

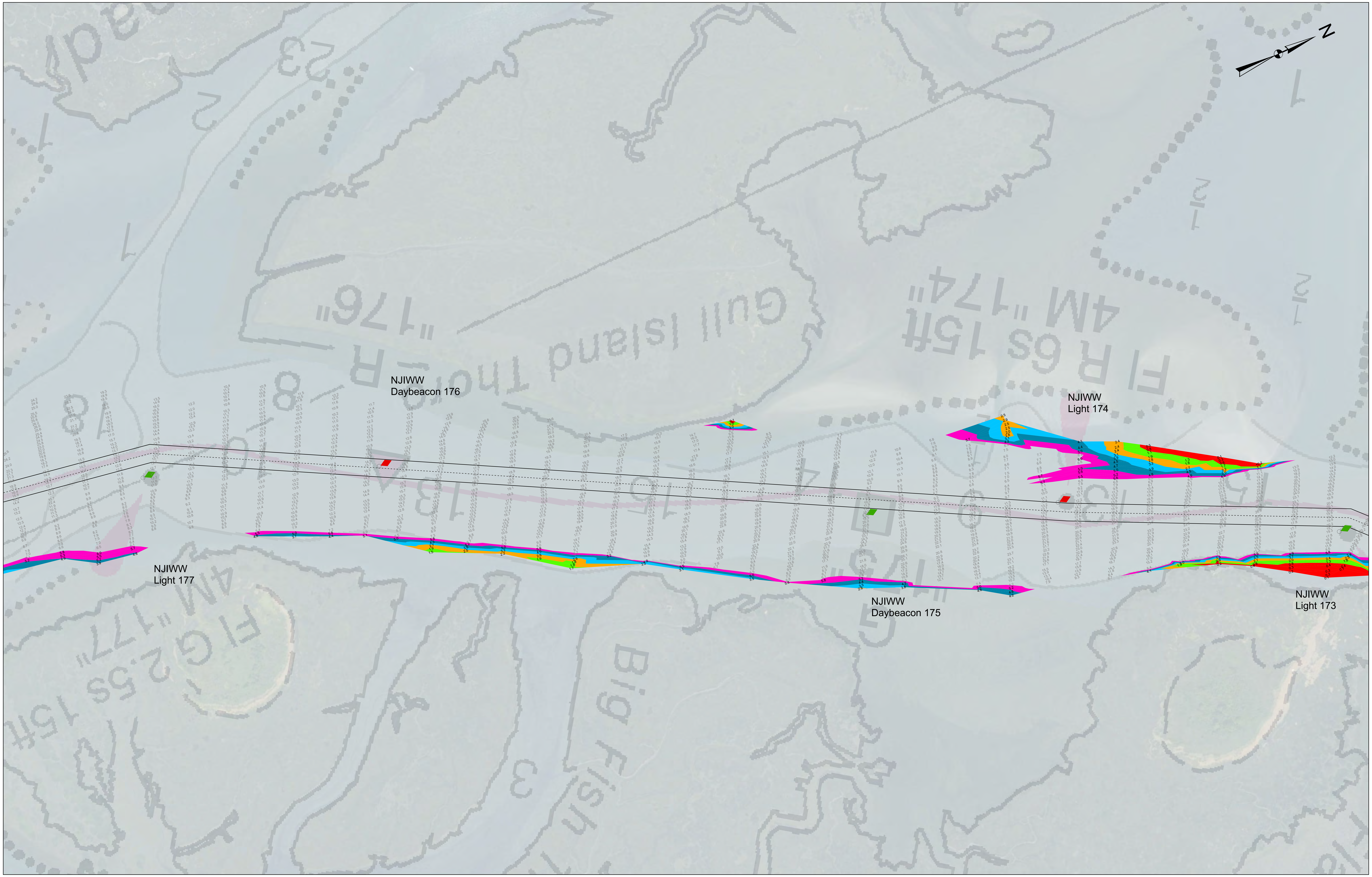
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Drawing No:
Plotted By:
E. Anthony
Plot Scale:
Checked By:
Approved:
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



US Army Corps of Engineers Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only.
It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

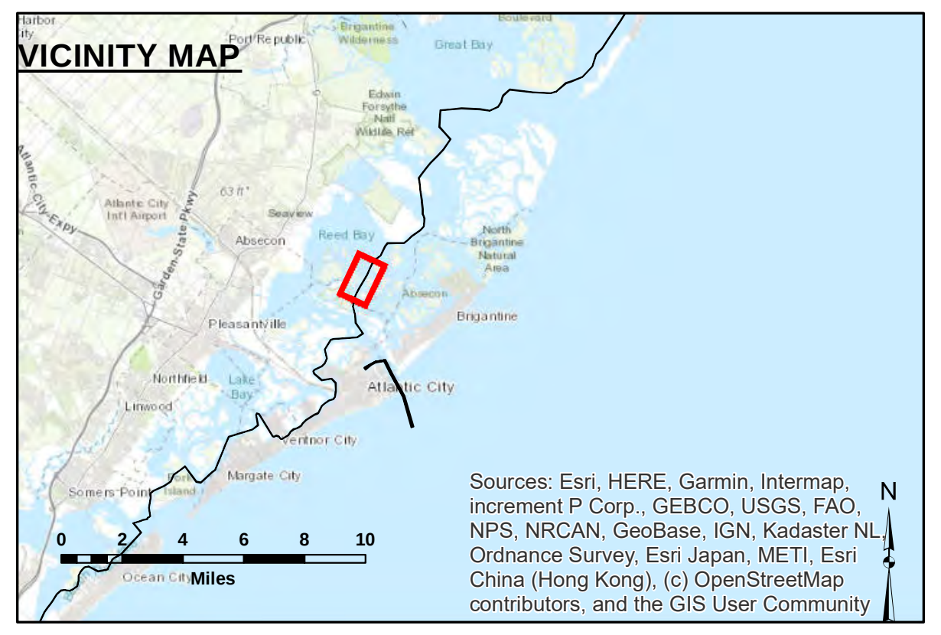
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No:
Plot Scale:
Approved: Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

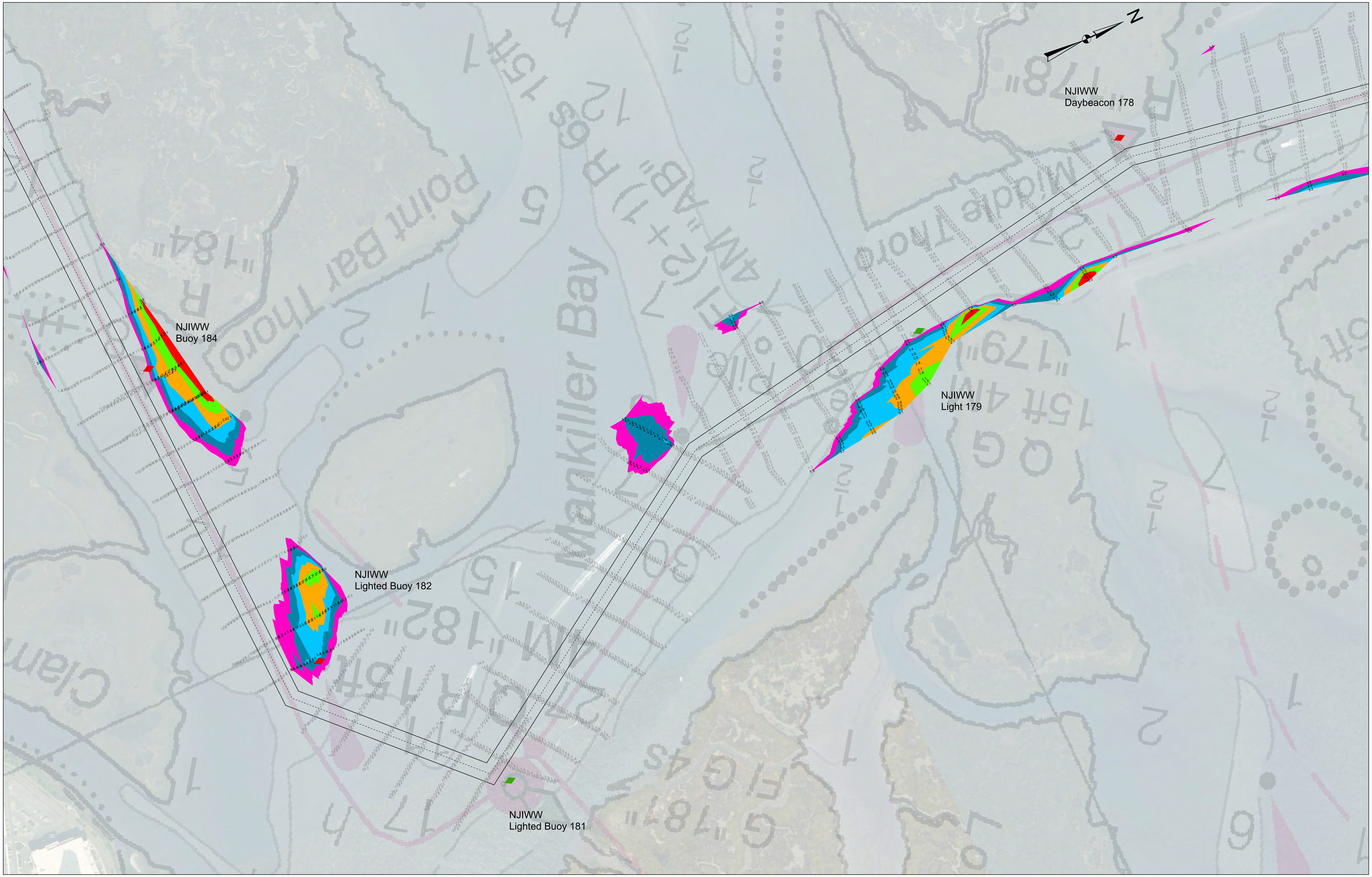
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

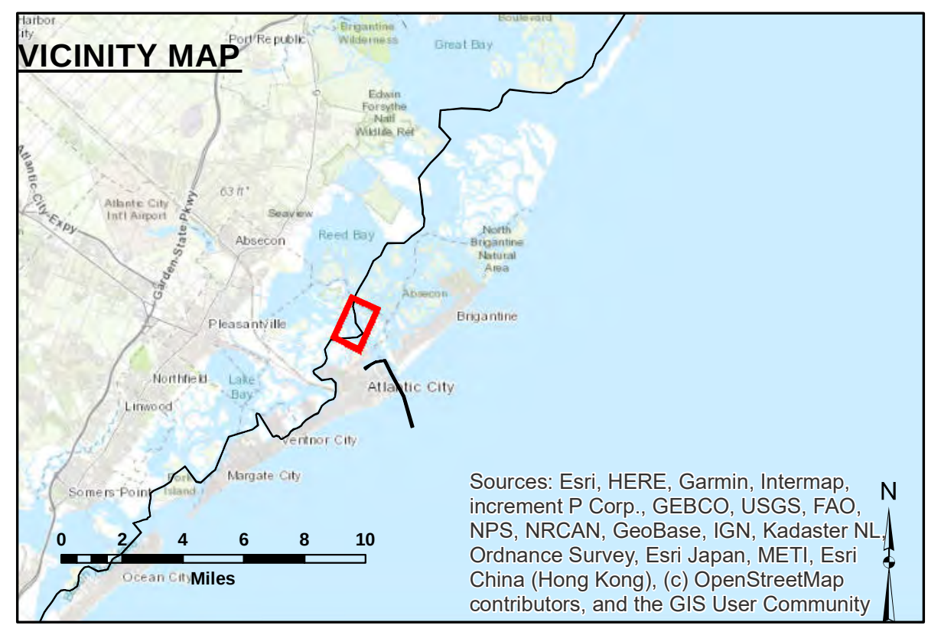
Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
----	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1





Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

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.

Scale in Feet
200 0 200 400 600

Legend

◆ Green Buoy	6 - 52.12
◆ Red Buoy	🟪 5 - 6
● Shoalest Sounding per Quarter	🟦 4 - 5
─── Channel Framework	🟦 3 - 4
------- Centerline	🟧 2 - 3
	🟩 1 - 2
	🟥 -4.33 - 1

US Army Corps of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

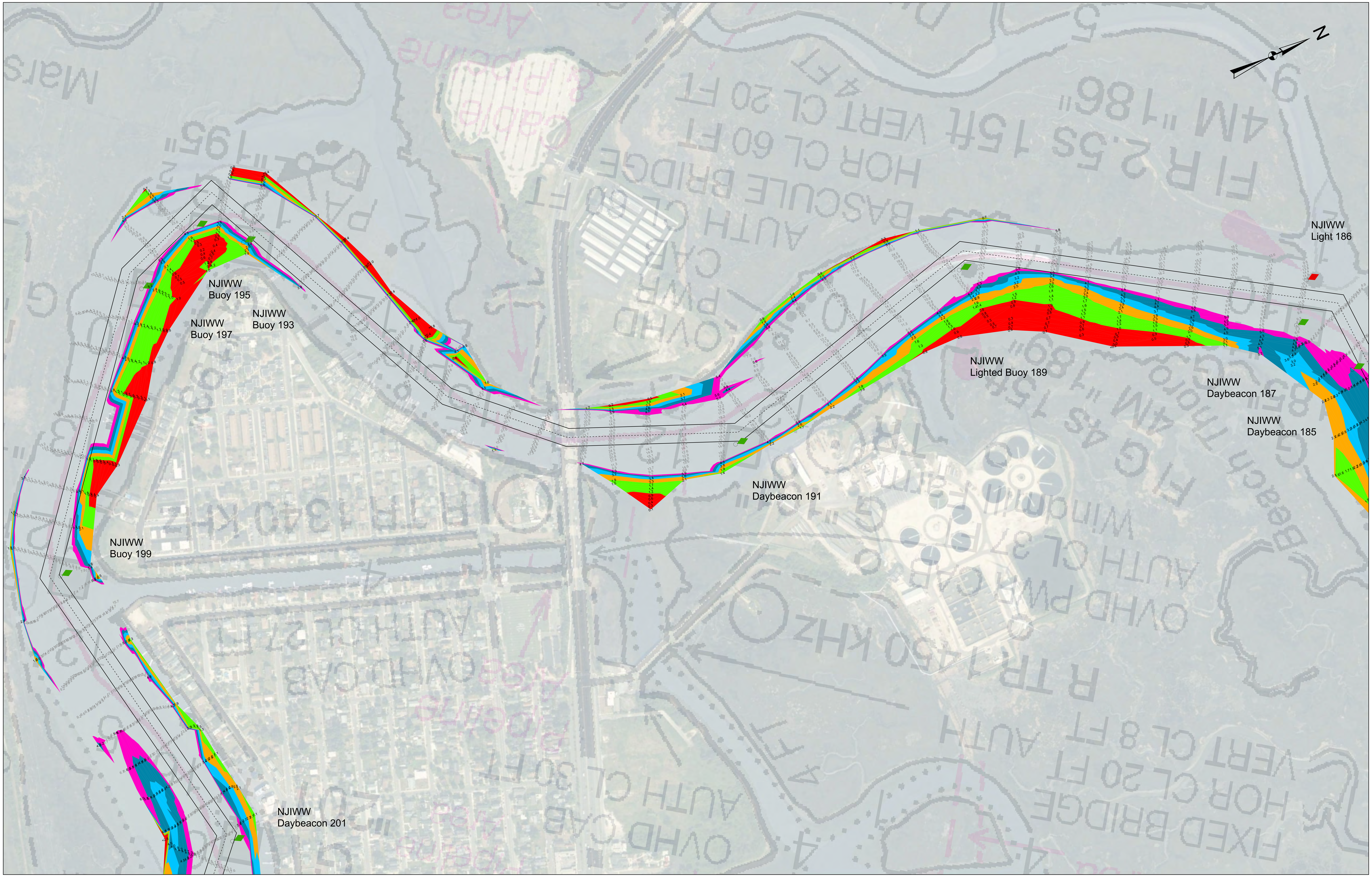
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Drawing No:
Plotted By: E. Anthony
Plot Scale:
Checked By:
Approved: ______
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

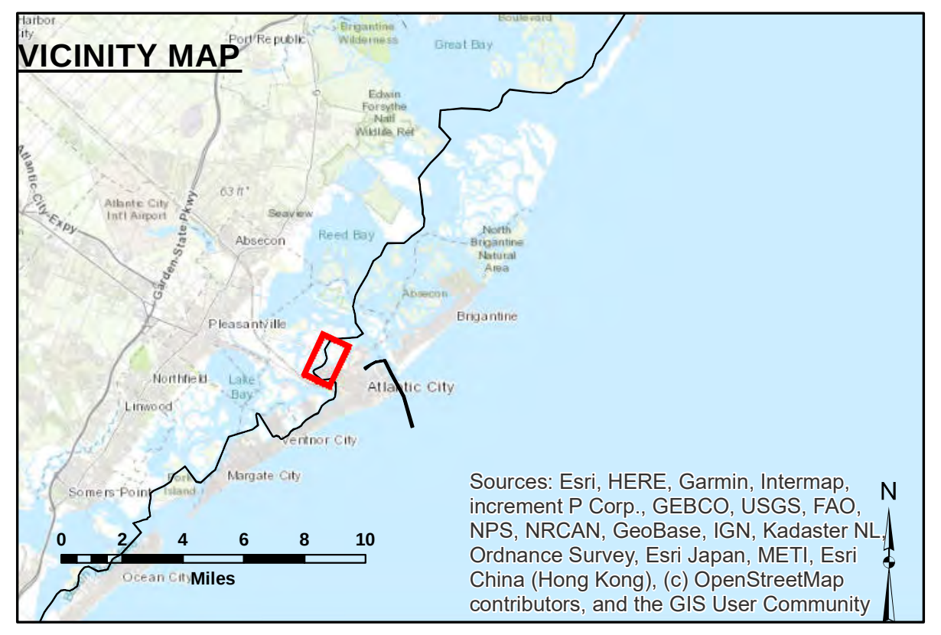
THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

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

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.

VICINITY MAP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Scale in Feet
200 0 200 400 600

Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
- - -	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1

US Army Corps of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23	MKR #165 to MKR #174 -- 12 SEP 23
MKR #110 to MKR #115 -- 14 NOV 23	MKR #174 to MKR #184 -- 11 SEP 23
MKR #115 to MKR #116 -- 14 NOV 23	MKR #184 to MKR #199 -- 31 AUG 23
MKR #116 to MKR #125 -- 15 NOV 23	MKR #199 to MKR #204 -- 29 AUG 23
MKR #125 to MKR #129 -- 16 NOV 23	MKR #204 to MKR #209 -- 11 JUL 23
MKR #129 to MKR #130C -- 13 MAY 24	MKR #209 to MKR #211 -- 12 JUL 23
MKR #130C to MKR #145 -- 14 MAY 24	MKR #211 to MKR #222 -- 20 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23	MKR #222 to MKR #231 -- 28 AUG 23
MKR #147 to MKR #150 -- 12 SEP 23	MKR #231 to MKR #246 -- 24 AUG 23
MKR #150 to MKR #165 -- 30 AUG 23	MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

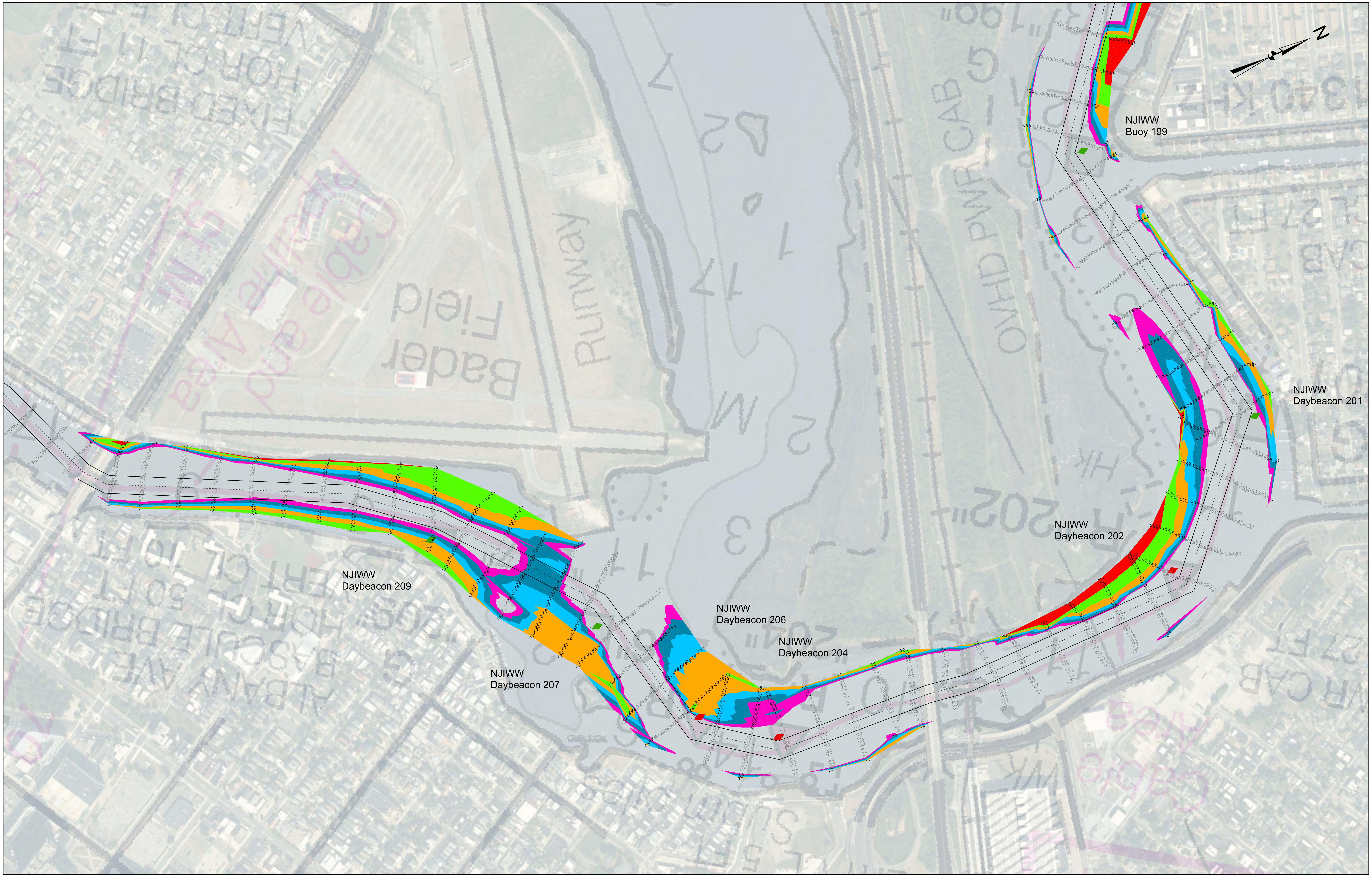
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Drawing No:
Plotted By: E. Anthony
Plot Scale:
Checked By:
Approved: ____________
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only.
It is not intended for use as a navigation aid. NOAA
publishes the official navigation charts to be used in
US waters by mariners. Any navigational use of this
data by others than the Corps of Engineers constitutes
misuse of the data. At best, hydrographic surveys are
accurate only at the time they are measured and only
within the tolerances of the survey equipment, computers,
printers, and other tools and equipment used to produce
and print them. Wind, waves, currents, and other maritime
effects are constantly changing the topography of the
waters of the United States. Survey equipment and
computer plotting software have inherent inaccuracies,
and printers and displays can also create inaccuracies.

The materials are provided "as is." The government
makes no representations or warranties
about the qualityor suitability of the materials,
expressed or implied, including
but not limited to any implied warranties of merchantability,
fitness for a particular purpose, or
non-infringement. The government
makes no warranties, guaranties or
representations as to the truth, accuracy,
or completeness of the data provided.

The government disclaims any liability for the use of this
data by others and the government shall not be liable for
any damages suffered as a result of using, modifying,
contributing, or distributing this information.

Surveyed By:

Plotted By:
E. Anthony

Checked By:

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Drawing No:

Plot Scale:

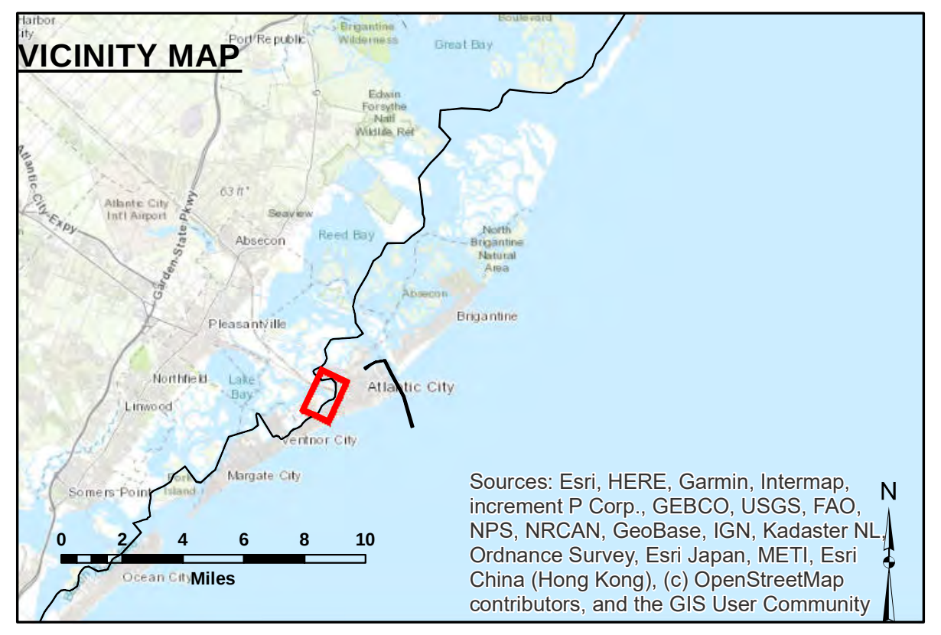
Approved: ______
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23

VICINITY MAP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

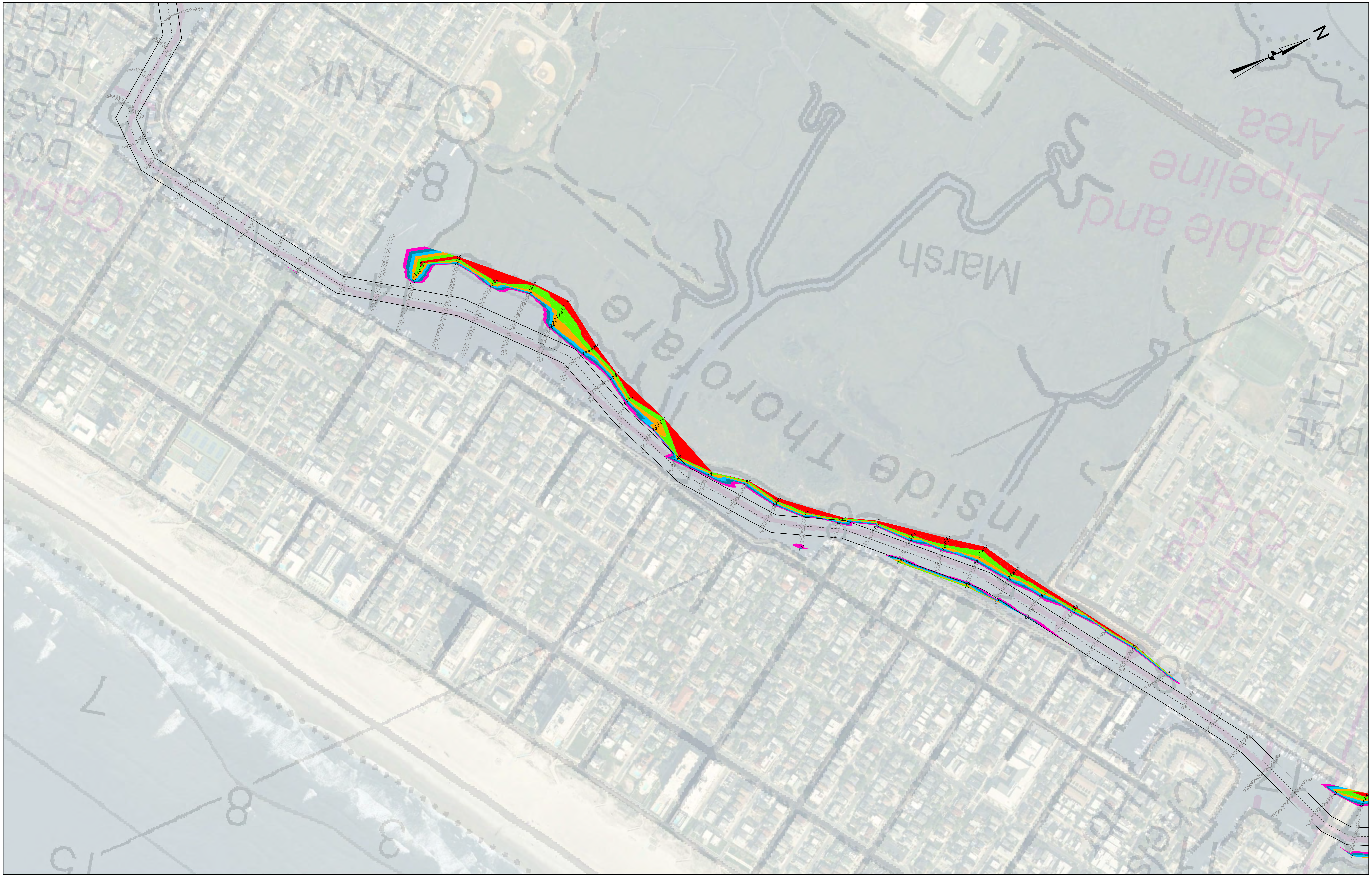
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES.
TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

- 🟩 Green Buoy
- 🟥 Red Buoy
- ● Shoalest Sounding per Quarter
- — Channel Framework
- ---- Centerline

- 6 - 52.12
- 🟪 5 - 6
- 🟦 4 - 5
- 🟦 3 - 4
- 🟧 2 - 3
- 🟩 1 - 2
- 🟥 -4.33 - 1



US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:

Drawing No:

Plotted By:
E. Anthony

Plot Scale:

Checked By:

Approved:
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23

Legend

◆ Green Buoy

◆ Red Buoy

● Shoalest Sounding per Quarter

Channel Framework

Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1

Scale in Feet
200 0 200 400 600

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

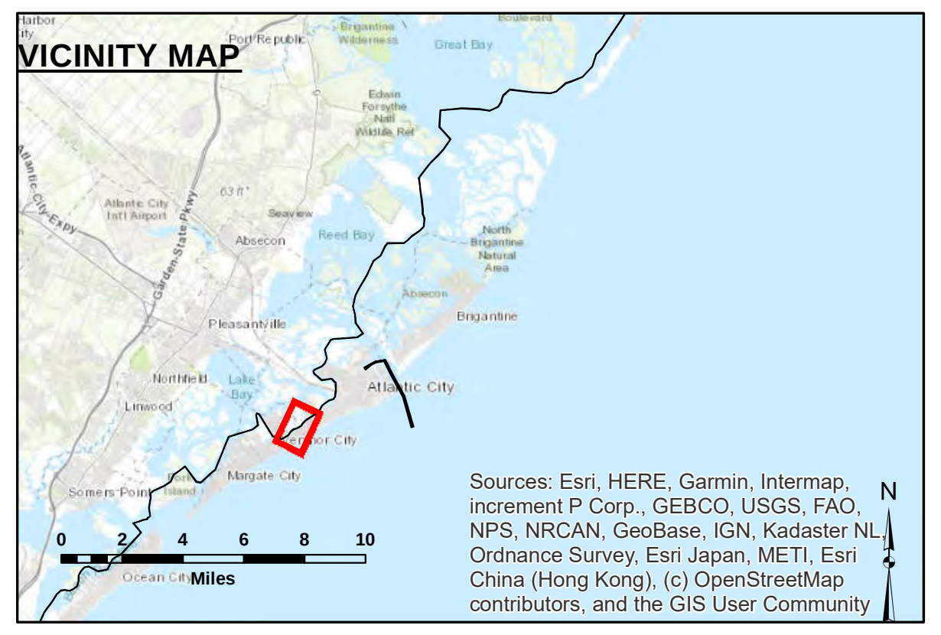
THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

THE LIMITS OF THE FEDERAL CHANNEL DEPICT THE MOST CURRENT CHANNEL FRAMEWORK AVAILABLE WHICH CAN ALSO BE DOWNLOADED HERE:

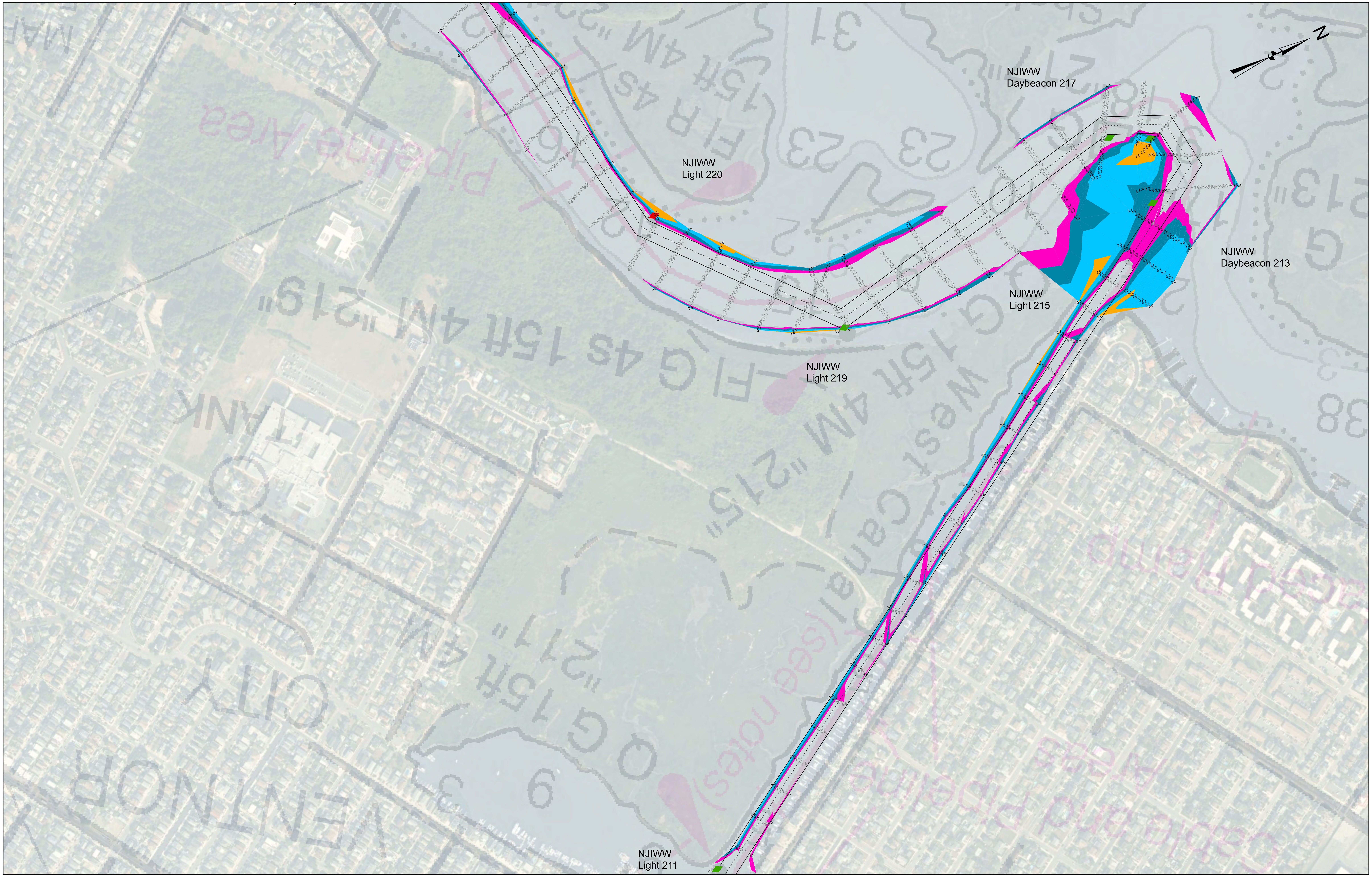
http://navigation.usace.army.mil/Survey/Framework

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.

VICINITY MAP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23	MKR #165 to MKR #174 -- 12 SEP 23
MKR #110 to MKR #115 -- 14 NOV 23	MKR #174 to MKR #184 -- 11 SEP 23
MKR #115 to MKR #116 -- 14 NOV 23	MKR #184 to MKR #199 -- 31 AUG 23
MKR #116 to MKR #125 -- 15 NOV 23	MKR #199 to MKR #204 -- 29 AUG 23
MKR #125 to MKR #129 -- 16 NOV 23	MKR #204 to MKR #209 -- 11 JUL 23
MKR #129 to MKR #130C -- 13 MAY 24	MKR #209 to MKR #211 -- 12 JUL 23
MKR #130C to MKR #145 -- 14 MAY 24	MKR #211 to MKR #222 -- 20 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23	MKR #222 to MKR #231 -- 28 AUG 23
MKR #147 to MKR #150 -- 12 SEP 23	MKR #231 to MKR #246 -- 24 AUG 23
MKR #150 to MKR #165 -- 30 AUG 23	MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

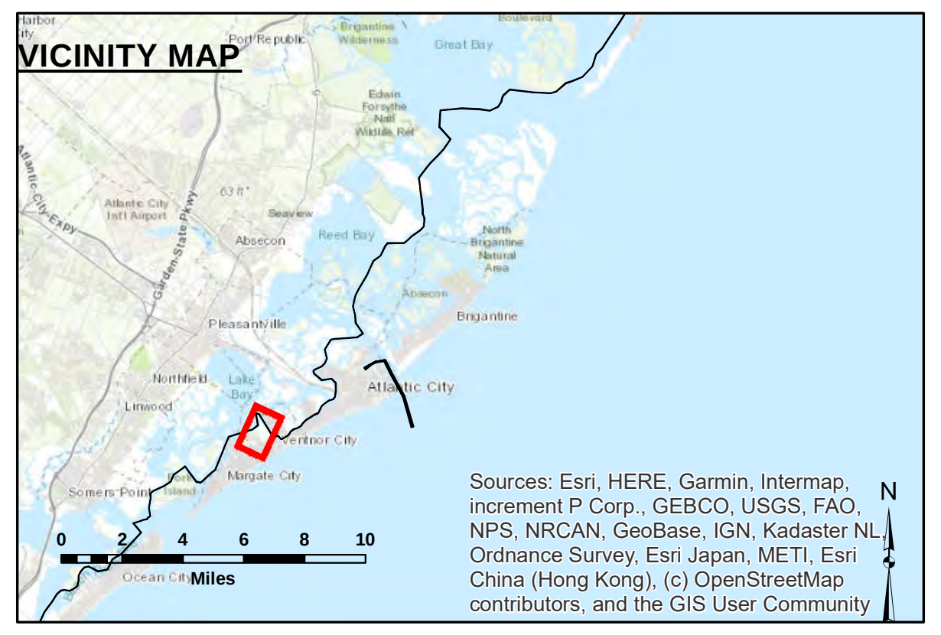
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Drawing No:
Surveyed By:
Plot Scale:
Plotted By: E. Anthony
Checked By:
Approved: ______________________
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

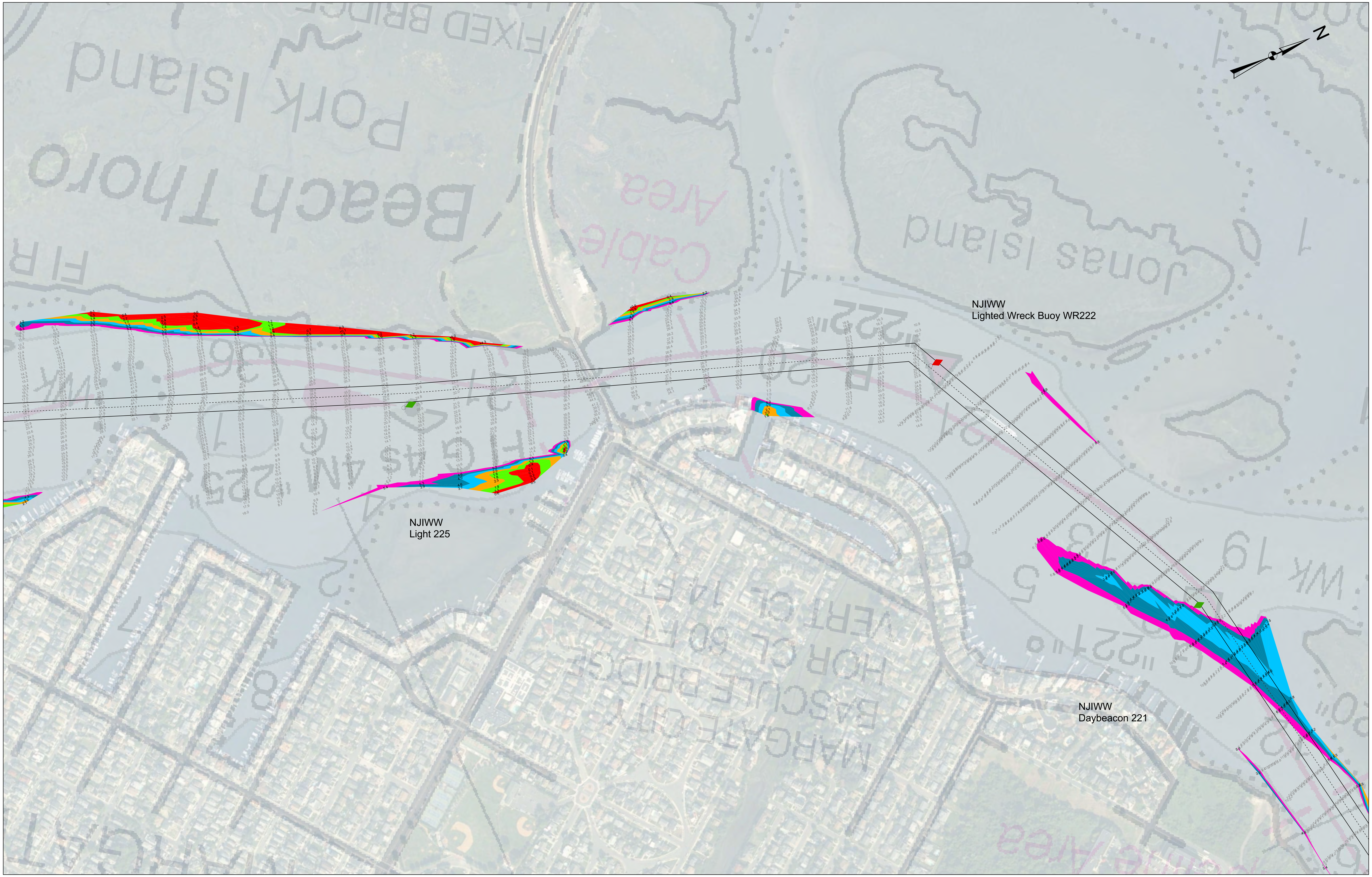
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

Scale in Feet
200 0 200 400 600

Legend

◆ Green Buoy	6 - 52.12
◆ Red Buoy	5 - 6
● Shoalest Sounding per Quarter	4 - 5
— Channel Framework	3 - 4
----- Centerline	2 - 3
	1 - 2
	-4.33 - 1

US Army Corps of Engineers
Philadelphia District



MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

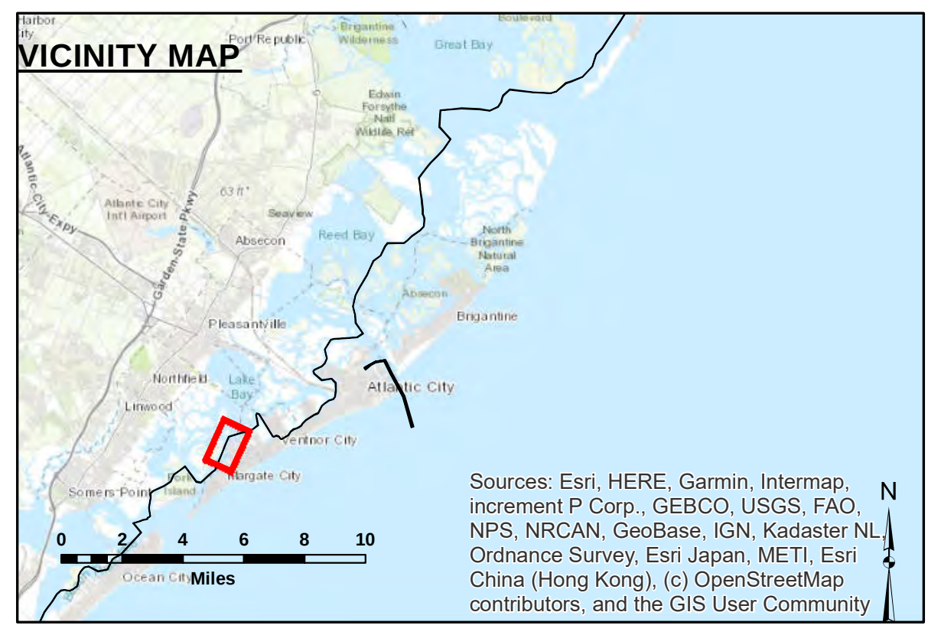
The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Plotted By: E. Anthony
Checked By:
Drawing No:
Plot Scale:
Approved: ____________ Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251
EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

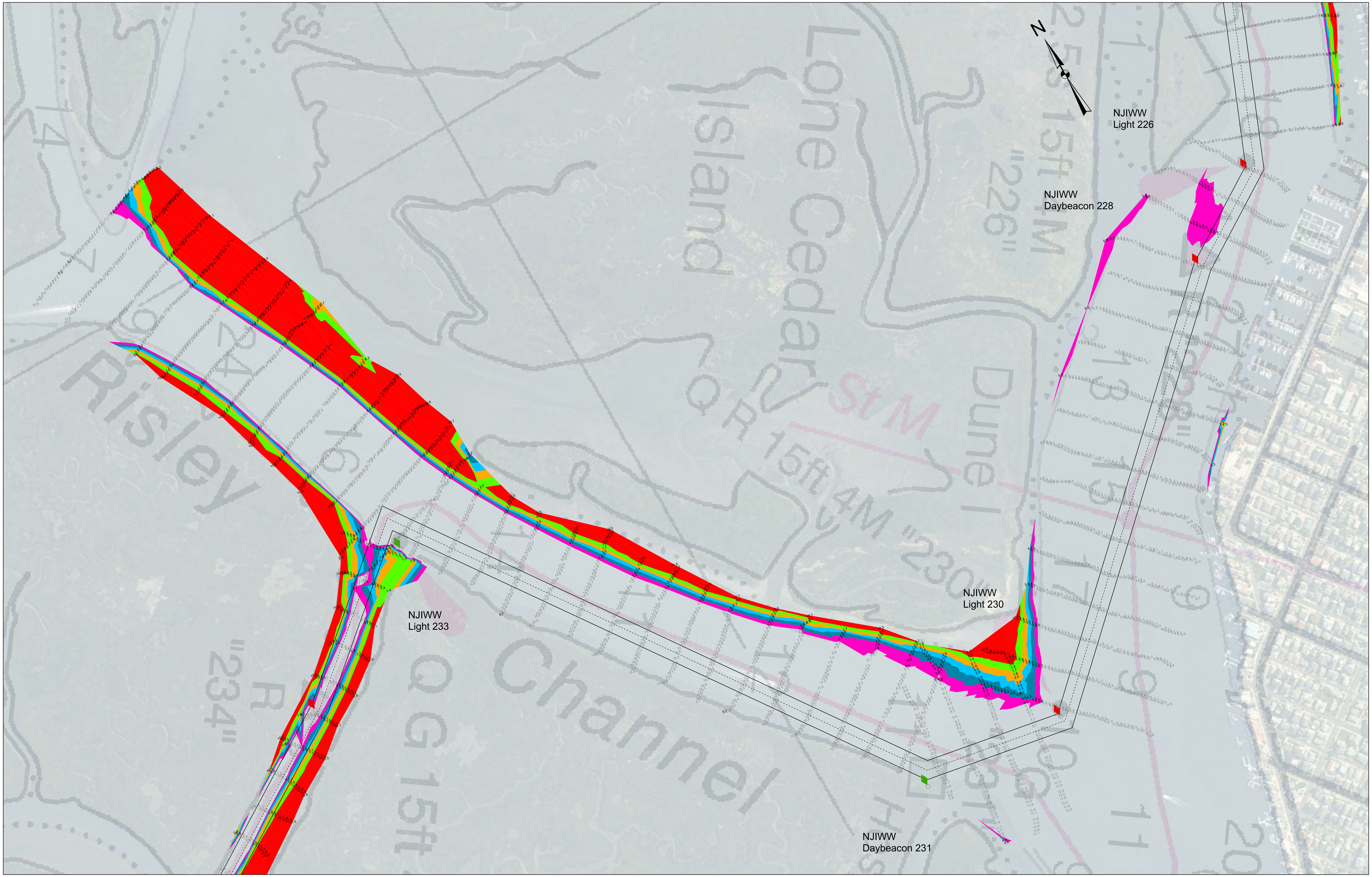
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES. TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.

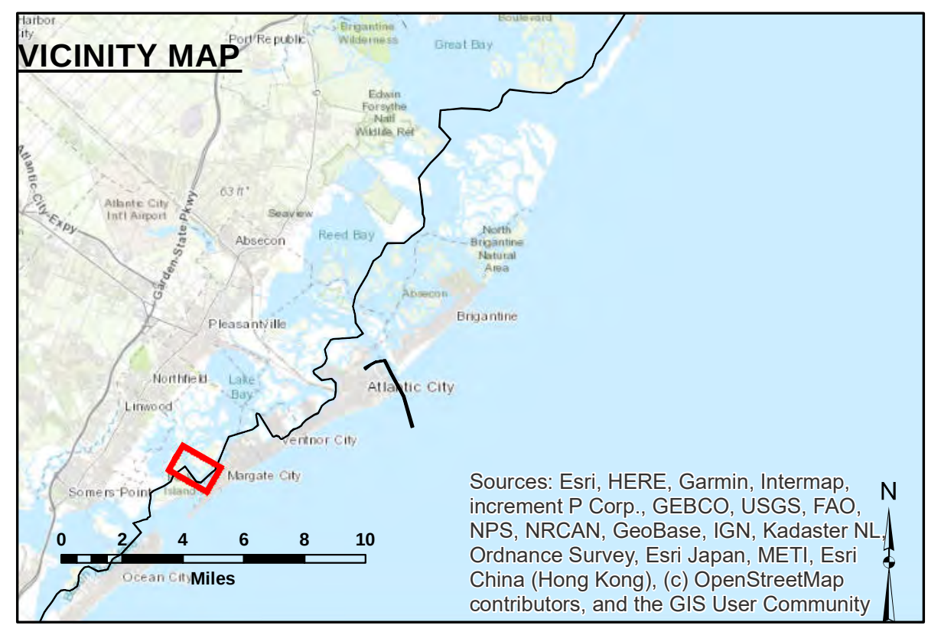
Scale in Feet
200 0 200 400 600

Legend

- ◆ Green Buoy
- ◆ Red Buoy
- ● Shoalest Sounding per Quarter
- ── Channel Framework
- ---- Centerline

6 - 52.12
🟪 5 - 6
🟦 4 - 5
🟦 3 - 4
🟧 2 - 3
🟩 1 - 2
🟥 -4.33 - 1





Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

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.

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

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.

Scale in Feet
200 0 200 400 600

Legend

- ◆ Green Buoy
- ◆ Red Buoy
- ● Shoalest Sounding per Quarter
- — Channel Framework
- ---- Centerline

- 6 - 52.12
- 🟪 5 - 6
- 🟦 4 - 5
- 🟦 3 - 4
- 🟧 2 - 3
- 🟩 1 - 2
- 🟥 -4.33 - 1

US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23	MKR #165 to MKR #174 -- 12 SEP 23
MKR #110 to MKR #115 -- 14 NOV 23	MKR #174 to MKR #184 -- 11 SEP 23
MKR #115 to MKR #116 -- 14 NOV 23	MKR #184 to MKR #199 -- 31 AUG 23
MKR #116 to MKR #125 -- 15 NOV 23	MKR #199 to MKR #204 -- 29 AUG 23
MKR #125 to MKR #129 -- 16 NOV 23	MKR #204 to MKR #209 -- 11 JUL 23
MKR #129 to MKR #130C -- 13 MAY 24	MKR #209 to MKR #211 -- 12 JUL 23
MKR #130C to MKR #145 -- 14 MAY 24	MKR #211 to MKR #222 -- 20 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23	MKR #222 to MKR #231 -- 28 AUG 23
MKR #147 to MKR #150 -- 12 SEP 23	MKR #231 to MKR #246 -- 24 AUG 23
MKR #150 to MKR #165 -- 30 AUG 23	MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:

Drawing No:

Plotted By:
E. Anthony

Plot Scale:

Checked By:

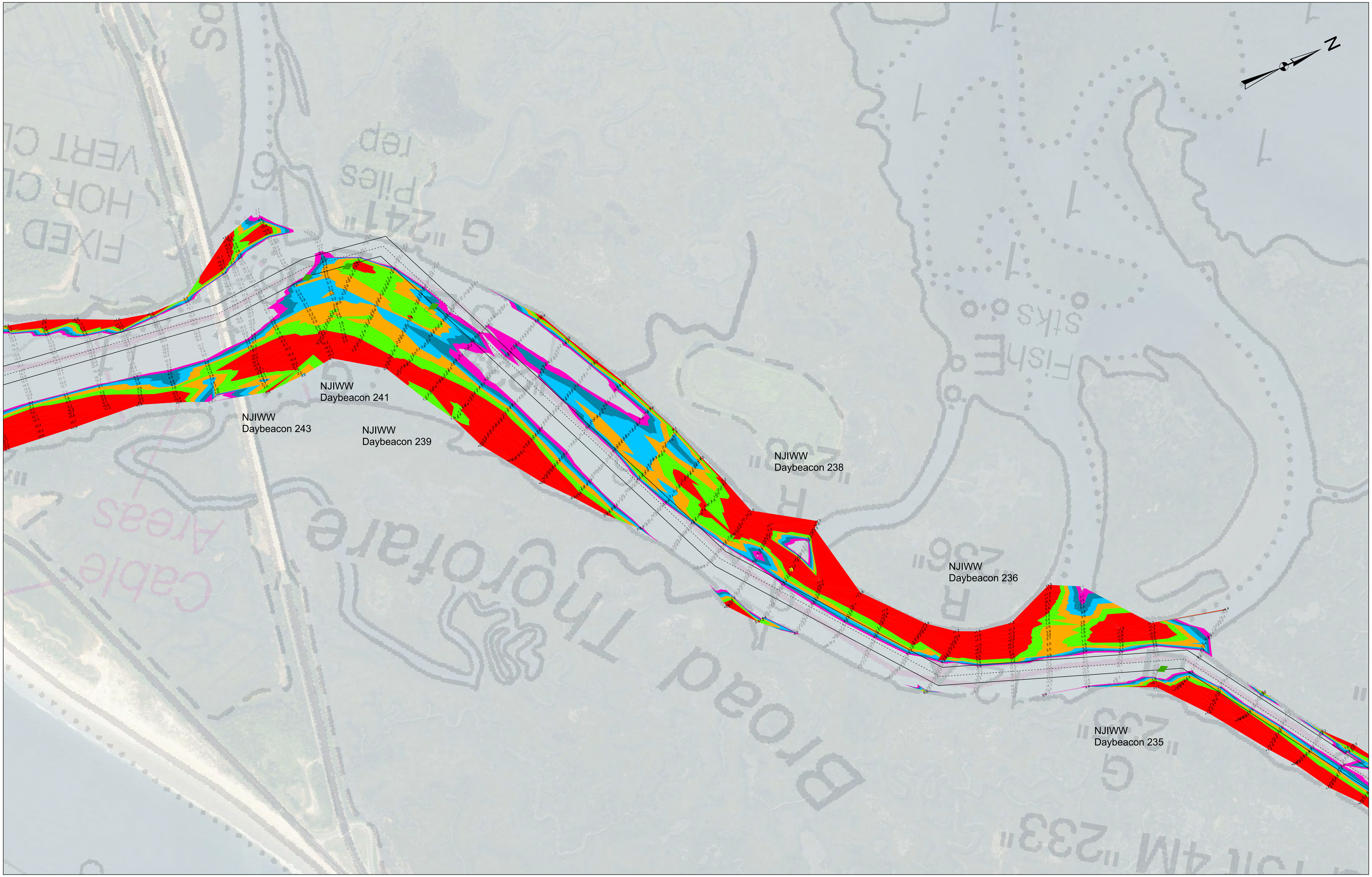
Approved: ____________
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23

US Army Corps of Engineers
Philadelphia District



MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

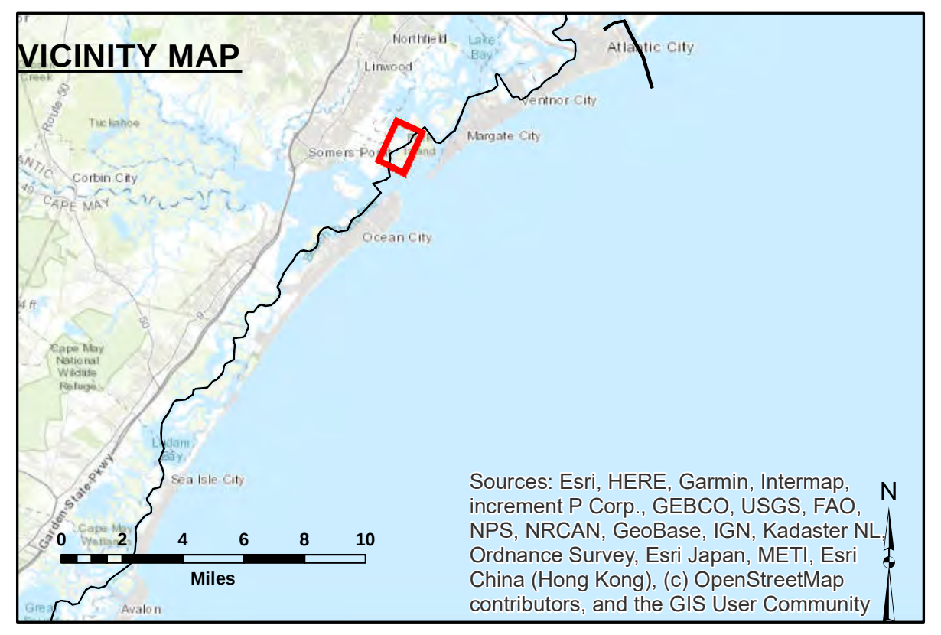
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:
Drawing No:
Plotted By:
E. Anthony
Plot Scale:
Checked By:
Approved: ____________
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

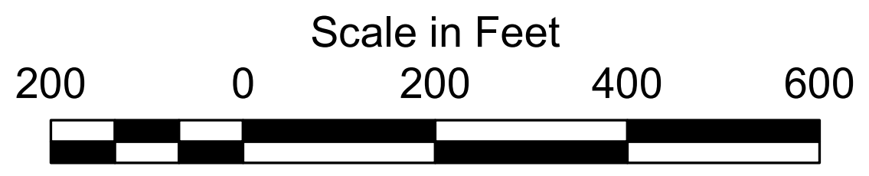
THE INFORMATION DEPICTED ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

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

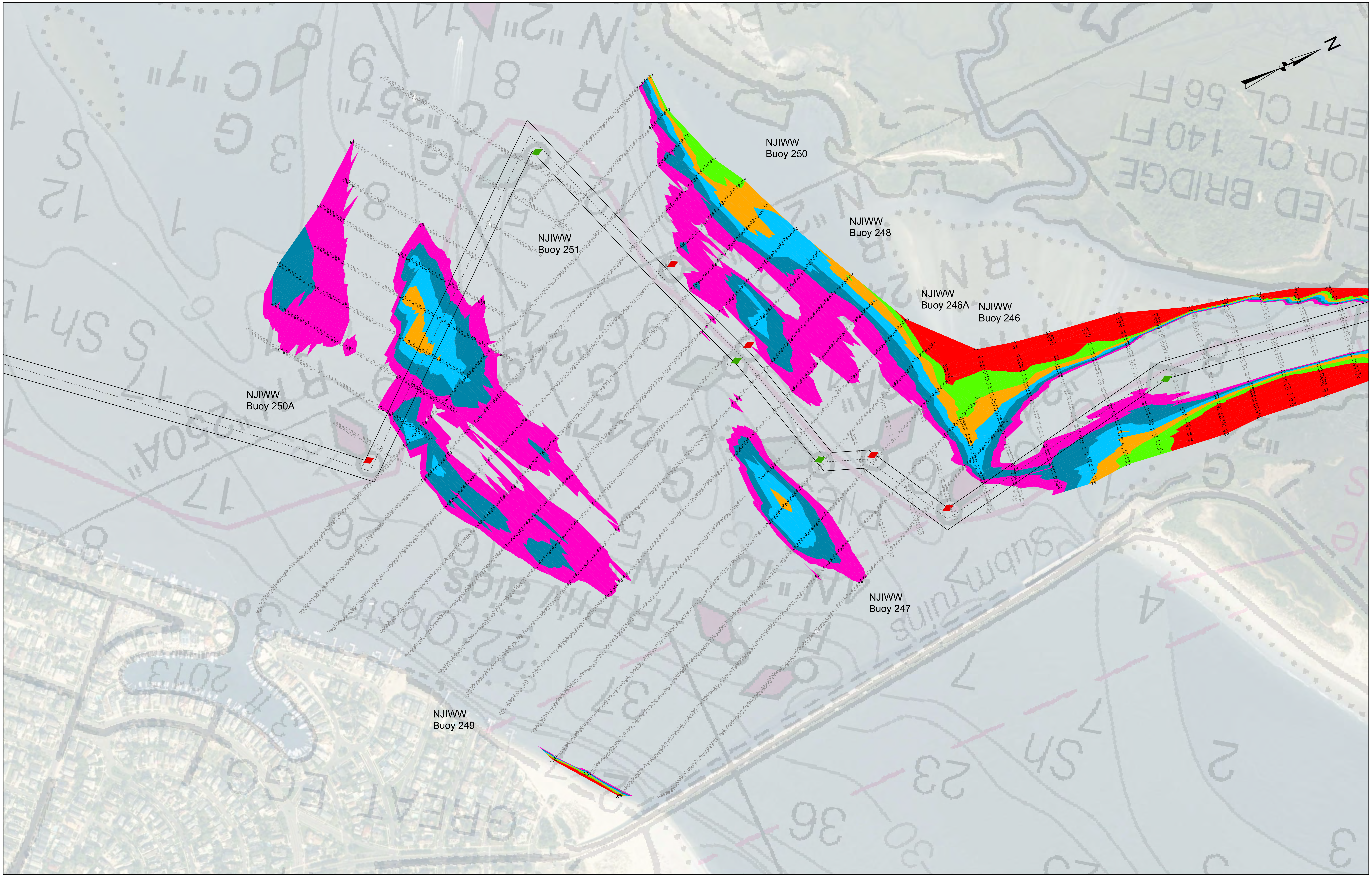
BASE MAPPING LINEWORK OR ORTHOPHOTOGRAPHY HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND DATES AND IS INTENDED TO PORTRAY GENERAL CHARACTERISTICS OF THE SHORELINE AND OTHER FEATURES.
TEMPORAL CHANGES MAY HAVE OCCURRED SINCE THIS DATA SET WAS COLLECTED AND SOME PARTS OF THE DATA MAY NO LONGER BE AN ACCURATE REPRESENTATION OF THE SURFACE CONDITIONS.



Legend

◆	Green Buoy
◆	Red Buoy
●	Shoalest Sounding per Quarter
—	Channel Framework
- - -	Centerline

	6 - 52.12
🟪	5 - 6
🟦	4 - 5
🟦	3 - 4
🟧	2 - 3
🟩	1 - 2
🟥	-4.33 - 1



US Army Corps
of Engineers
Philadelphia District

MKR #109 to MKR #110 -- 13 NOV 23
MKR #110 to MKR #115 -- 14 NOV 23
MKR #115 to MKR #116 -- 14 NOV 23
MKR #116 to MKR #125 -- 15 NOV 23
MKR #125 to MKR #129 -- 16 NOV 23
MKR #129 to MKR #130C -- 13 MAY 24
MKR #130C to MKR #145 -- 14 MAY 24
MKR #145 to MKR #147 -- 13 SEP 23
MKR #147 to MKR #150 -- 12 SEP 23
MKR #150 to MKR #165 -- 30 AUG 23
MKR #165 to MKR #174 -- 12 SEP 23
MKR #174 to MKR #184 -- 11 SEP 23
MKR #184 to MKR #199 -- 31 AUG 23
MKR #199 to MKR #204 -- 29 AUG 23
MKR #204 to MKR #209 -- 11 JUL 23
MKR #209 to MKR #211 -- 12 JUL 23
MKR #211 to MKR #222 -- 20 MAY 24
MKR #222 to MKR #231 -- 28 AUG 23
MKR #231 to MKR #246 -- 24 AUG 23
MKR #246 to MKR #250A -- 31 OCT 23

DISCLAIMER
This data is provided for general information only. It is not intended for use as a navigation aid. NOAA publishes the official navigation charts to be used in US waters by mariners. Any navigational use of this data by others than the Corps of Engineers constitutes misuse of the data. At best, hydrographic surveys are accurate only at the time they are measured and only within the tolerances of the survey equipment, computers, printers, and other tools and equipment used to produce and print them. Wind, waves, currents, and other maritime effects are constantly changing the topography of the waters of the United States. Survey equipment and computer plotting software have inherent inaccuracies, and printers and displays can also create inaccuracies.

The materials are provided "as is." The government makes no representations or warranties about the qualityor suitability of the materials, expressed or implied, including but not limited to any implied warranties of merchantability, fitness for a particular purpose, or non-infringement. The government makes no warranties, guaranties or representations as to the truth, accuracy, or completeness of the data provided.

The government disclaims any liability for the use of this data by others and the government shall not be liable for any damages suffered as a result of using, modifying, contributing, or distributing this information.

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT

Surveyed By:

Drawing No:

Plotted By:
E. Anthony

Plot Scale:

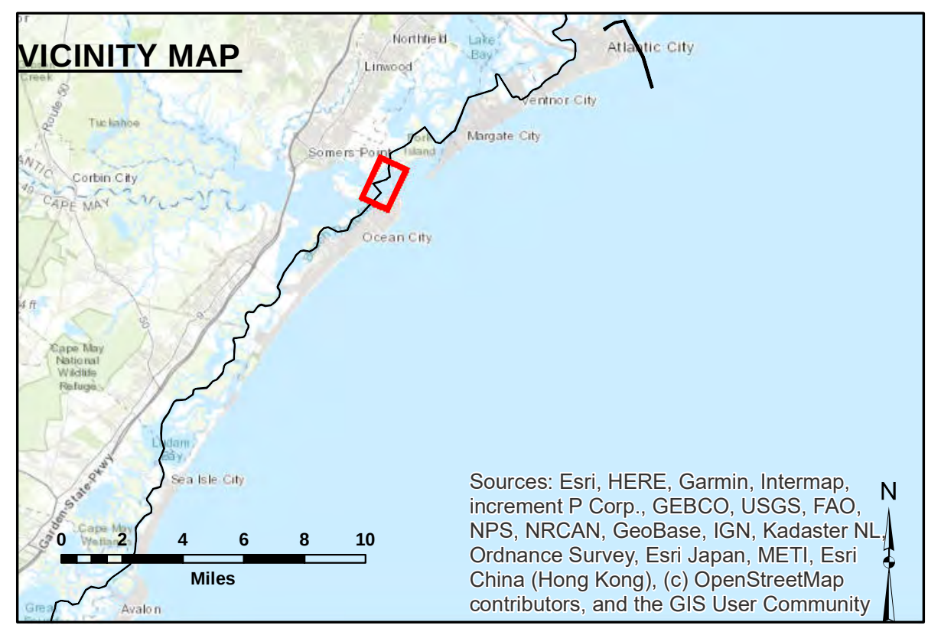
Checked By:

Approved: ________________
Chief, Surveys Section

NEW JERSEY INTRACOASTAL WATERWAY
MKR #109 to MKR #251

EXAMINATION

IW-23



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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.

HORIZONTAL REFERENCE - NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.

VERTICAL REFERENCE – MEAN LOWER LOW WATER, WHICH IS 2.47' BELOW N.A.V.D. 88.

GEOID 18 AND NOAA TIDAL EPOCH: 1983 – 2001 WERE USED. SOUNDINGS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER.

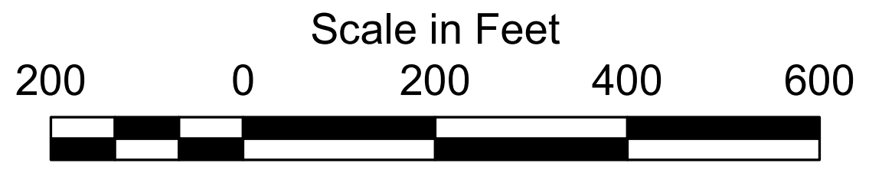
THE INFORMATION DEPICTED ON THIS MAP REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY, AND SHOULD NOT BE USED FOR NAVIGATION.

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

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.



Legend

- ◆ Green Buoy
- ◆ Red Buoy
- ● Shoalest Sounding per Quarter
- ─ Channel Framework
- ┄ Centerline

- 6 - 52.12
- 🟪 5 - 6
- 🟦 4 - 5
- 🟦 3 - 4
- 🟧 2 - 3
- 🟩 1 - 2
- 🟥 -4.33 - 1