

LEGEND

--- Federal Navigation Channel

..... Cable or Pipeline area

- - - Channel Center Line

— Marine Infrastructure*

— Contour Line

✱ Fixed Navigation Aids

✱ Obstruction Point

📍 Red Navigation Buoy

📍 Green Navigation Buoy

🔴 Shoaling Area

🟡 Shoalest Sounding**

GRAPHIC SCALE

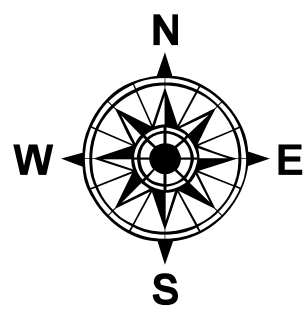
1" = 100'

0 100 200 Feet

Notes:

** Shoalest Sounding per Quarter per Reach

* Present at Time of Hydrographic Survey



Notes:
Horizontal Datum: Maine West, ME-1802 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POPHAM BEACH
Sonar System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 200 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4541 & 4542
Survey No.: ME_47_KEN_20211102_CS_061
Reference NOAA Chart No.: 13293 & 13296

General Notes
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during November 2021. The sounding information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the conditions existing at that time. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthorectification is 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 dataset was collected and some parts may no longer be an accurate representation of the conditions. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

Project Remarks
None

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 3.49 feet to 4.76 feet. A Hypack KTD file was created from corrections for this project that are established or published in the vicinity of NOAA bench marks at Hunniwell Point, Kennebec River (Station ID 8417177, 02/27/2006); Bath, Kennebec River (Station ID 8417227, 02/28/2006); Richmond, Kennebec River (Station ID 8417208, 02/27/2006). The corrections are 4.76 feet for Hunniwell Point, 3.49 feet for Bath and 2.14 feet for Richmond. The average range of tides is 8.4 feet at Hunniwell Point, 6.4 feet at Bath and 5.3 feet at Richmond. No tide gauges were used on this project.



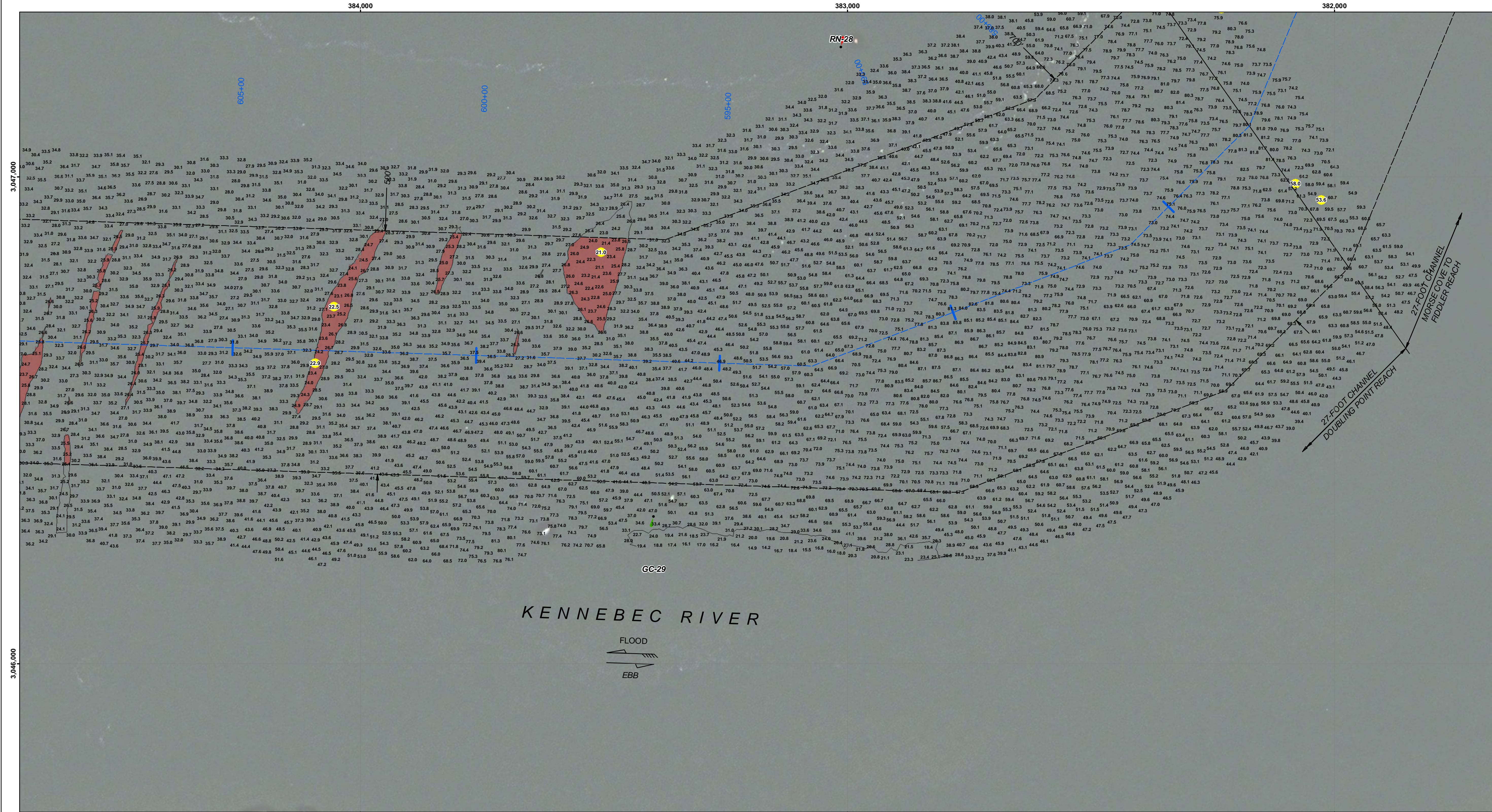
DISCLAIMER
The United States Government fund these data and the recipient accepts and uses them with the express understanding that the data are not warranted for any particular purpose, and that the data are not to be used for any purpose other than that for which they were collected. The data are not to be used for any purpose other than that for which they were collected. The data are not to be used for any purpose other than that for which they were collected. The data are not to be used for any purpose other than that for which they were collected.

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SURVEYED BY: MJO	CHECKED BY: ZSM	ISSUE DATE: 11/6/2021
SUBMITTED BY: Zachary McKay		APPROVED BY: NAE Survey		
SIZE ANSI D	MAP DOCUMENT ME_47_KEN_20211102_CS_061			

**Kennebec River
Phippsburg to Bath,
Maine
CONDITION SURVEY
27-FOOT CHANNEL**

File Name: ME_47_KEN_20211102_CS_061

**SHEET
IDENTIFICATION
Kennebec River,
Phippsburg to Bath
Sheet 21 of 25**



LEGEND

--- Federal Navigation Channel

..... Cable or Pipeline area

- - - Channel Center Line

— Marine Infrastructure*

— Contour Line

Fixed Navigation Aids

Obstruction Point

Red Navigation Buoy

Green Navigation Buoy

Shoaling Area

Shoalest Sounding**

GRAPHIC SCALE

1" = 100'

0

100

200

Feet

** Shoalest Sounding per Quarter per Reach
* Present at Time of Hydrographic Survey

Notes:
Horizontal Datum: Maine West, ME-1802 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POPHAM BEACH
Sounding System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 200 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4541 & 4542
Survey No.: ME_47_KEN_20211102_CS_061
Reference NOAA Chart No.: 13293 & 13296

General Notes
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during November 2021. The sounding information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the conditions existing at that time. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthographic is 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 dataset was collected and some parts may no longer be an accurate representation of the conditions. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

Project Remarks
None

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 3.49 feet to 4.76 feet A Hypack KTD file was created from corrections for this project that are established or published in the vicinity of NOAA bench marks at Hunnwell Point, Kennebec River (Station ID 8417177, 02/27/2006); Bath, Kennebec River (Station ID 8417227, 02/28/2006); Richmond, Kennebec River (Station ID 8417208, 02/27/2006). The corrections are 4.76 feet for Hunnwell Point, 3.49 feet for Bath and 2.14 feet for Richmond. The average range of tides is 8.4 feet at Hunnwell Point, 6.4 feet at Bath and 5.3 feet at Richmond. No tide gauges were used on this project.

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DISTRICT

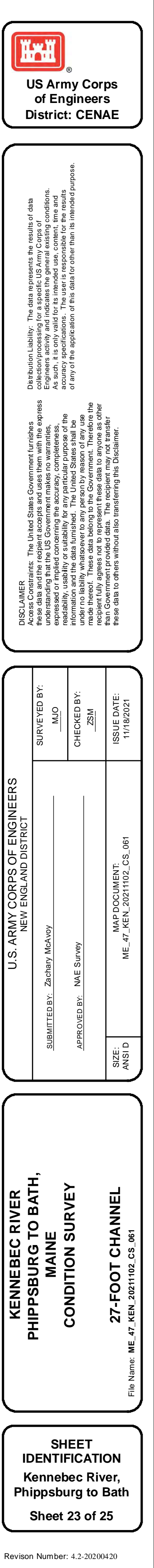
SUBMITTED BY: Zachary McKoy	SURVEYED BY: MAJ	CHECKED BY: ZSM	ISSUE DATE: 11/6/2021
APPROVED BY: NAE Sney			
SIZE A3SID			

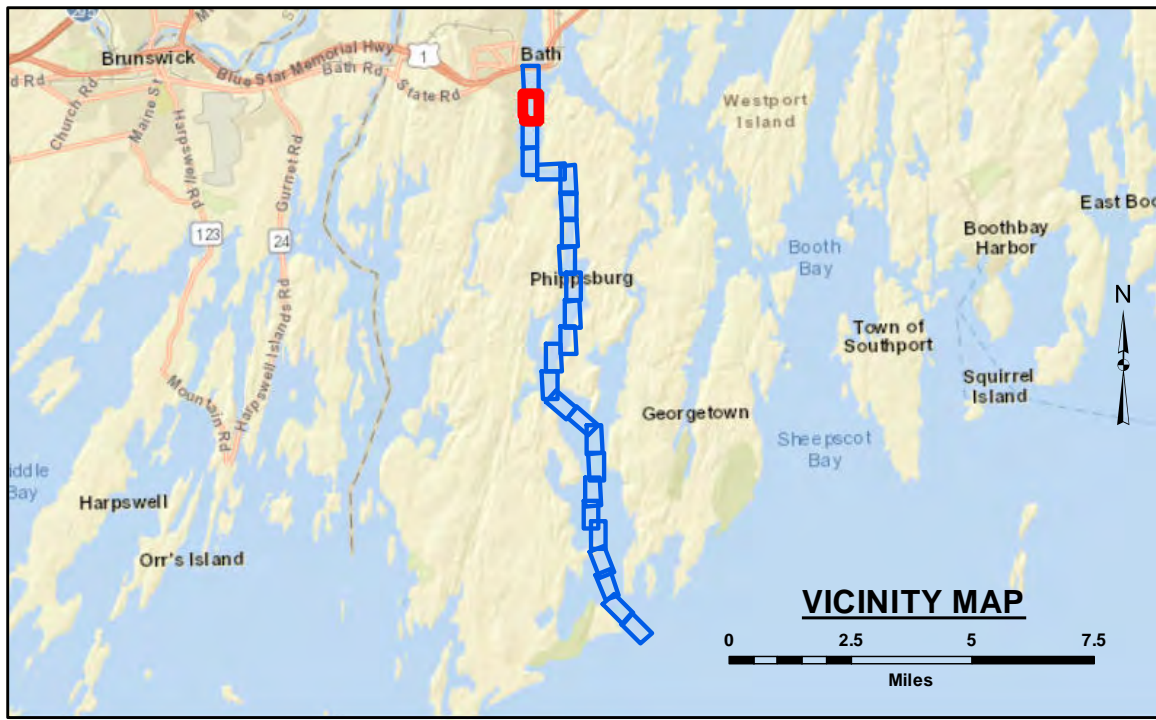
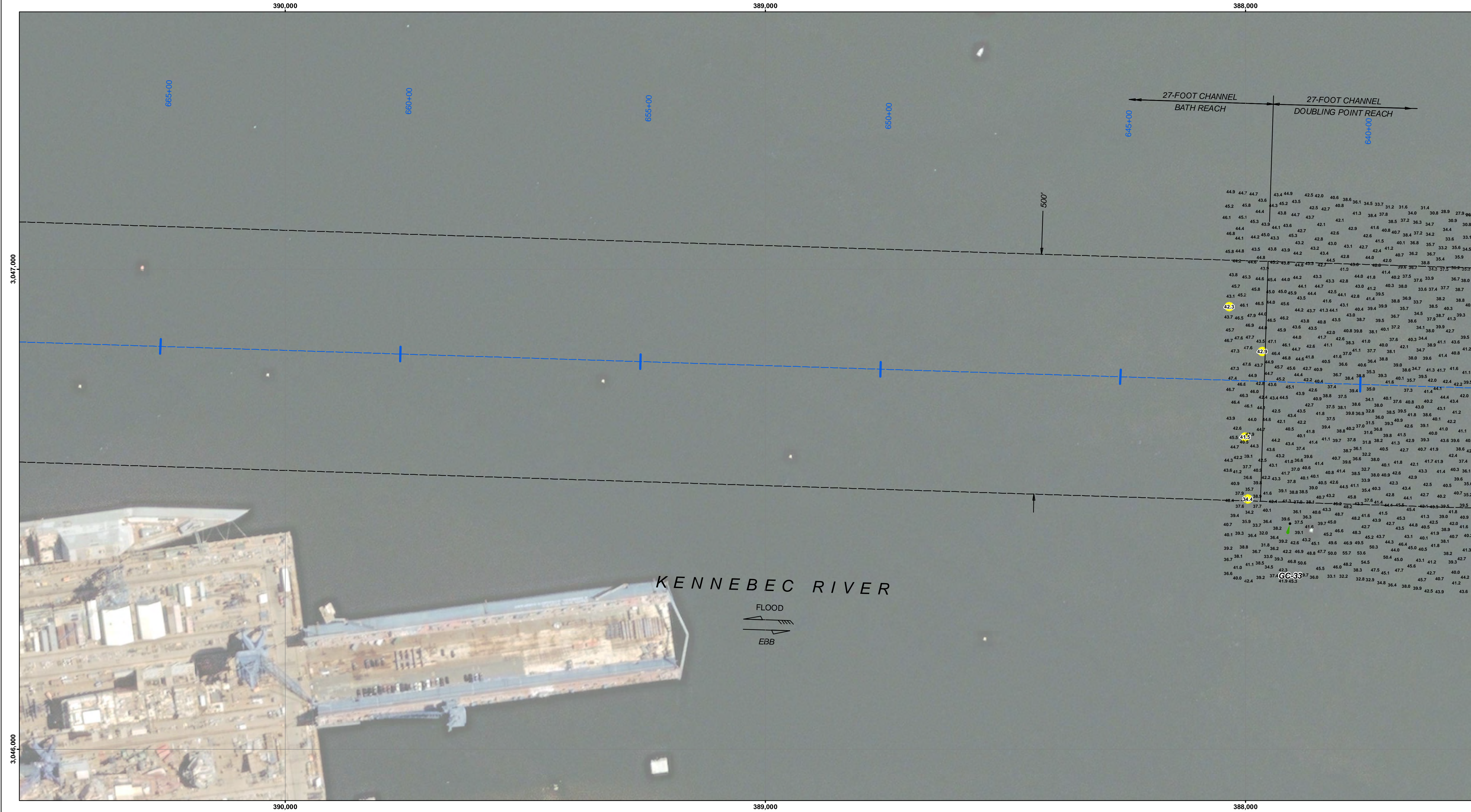
KENNEBEC RIVER
PHIPPSBURG TO BATH,
MAINE
CONDITION SURVEY

SHEET
IDENTIFICATION
Kennebec River,
Phippsburg to Bath
Sheet 22 of 25

File Name: ME_47_KEN_20211102_CS_061

Revision Number: 4.2:20200420





LEGEND

Federal Navigation Channel

.....

Cable or Pipeline area

Channel Center Line

Marine Infrastructure*

Contour Line

✖

Fixed Navigation Aids

✖

Obstruction Point

📍

Red Navigation Buoy

📍

Green Navigation Buoy

■

Shoaling Area

●

Shoalest Sounding**

** Shoalest Sounding per Quarter per Reach

* Present at Time of Hydrographic Survey

GRAPHIC SCALE

100

0

100

200

1" = 100' Feet

Notes:
Horizontal Datum: Maine West, ME-1802 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: POPHAM BEACH
Sonic System: Reson T50 (Multibeam Sonar)
Sounding Frequency: 200 kHz
Survey Method: RTK GPS Tides
GPS System: Trimble SPS 855 (RTK)
RTK Base Station: MTS Smartnet Max
Software Used: Hypack
Sounding Sort Distance: 20'
Field Books: R&H 4541 & 4542
Survey No.: ME_47_KEN_20211102_CS_061
Reference NOAA Chart No.: 13293 & 13296

The information depicted on these charts represents the results of surveys made on the dates indicated, and can only be considered as indicating the conditions existing at that time.

General Notes
The sounding information shown on this map represents the SHOALEST soundings of those obtained from hydrographic surveys conducted during November 2021. The sounding information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the conditions existing at that time. The positions of aids to navigation were located during survey operations, are provided for information only and should not be used for navigation. Orthorectification is 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 dataset was collected and some parts may no longer be an accurate representation of the conditions. The information depicted on this map should NOT be used to determine volumes as volumes are determined from more sounding information than shown.

Project Remarks
None

Water Level Information
Tides were recorded using RTK GPS. The MLLW to NAVD88 corrections for this project range from 3.49 feet to 4.76 feet. A Hypack KTD file was created from corrections for this project that are established or published in the vicinity of NOAA bench marks at Hunnwell Point, Kennebec River (Station ID 8417177, 02/27/2006); Bath, Kennebec River (Station ID 8417227, 02/28/2006); Richmond, Kennebec River (Station ID 8417208, 02/27/2006). The corrections are 4.76 feet for Hunnwell Point, 3.49 feet for Bath and 2.14 feet for Richmond. The average range of tides is 8.4 feet at Hunnwell Point, 6.4 feet at Bath and 5.3 feet at Richmond. No tide gauges were used on this project.



DISCLAIMER
The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were originally collected, expressed or implied concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the recipient. The use of the data for any other purpose is at the user's risk. The user is responsible for the results of any use of the data for any other purpose. The user is not to be held responsible for any use of the data for any other purpose. The user is not to be held responsible for any use of the data for any other purpose. The user is not to be held responsible for any use of the data for any other purpose.

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		SURVEYED BY: MJO		CHECKED BY: ZSM		ISSUE DATE: 11/6/2021	
SUBMITTED BY: Zachary McVay		APPROVED BY: NAE Survey		MAP DOCUMENT ME_47_KEN_20211102_CS_061		SIZE A1S1D	

**KENNEBEC RIVER
PHIPPSBURG TO BATH,
MAINE
CONDITION SURVEY**

27-FOOT CHANNEL

File Name: ME_47_KEN_20211102_CS_061

**SHEET
IDENTIFICATION**
Kennebec River,
Phippsburg to Bath
Sheet 24 of 25