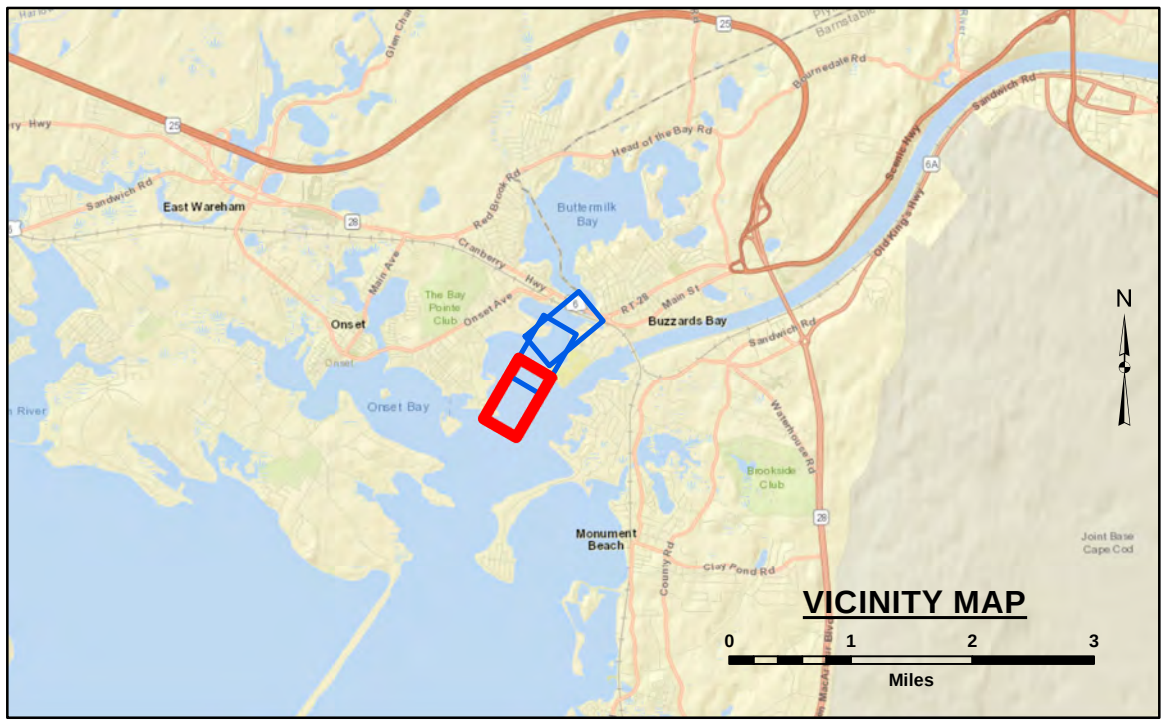




LEGEND

Federal Navigation Channel

Channel Center Line

.....

Cable/Pipeline Area

—

Contour Line

—

Marine Infrastructure *

✱

Fixed Navigation Aids

🚩

Red Navigation Buoy

🟢

Green Navigation Buoy

🚧

Junction Buoy

■

Shoaling Area

●

Shoalest Sounding**

1" = 100'

0

100

0

100

200

Feet

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

Notes:
Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Pogham Beach
Sonar System: ODOM MK 3 (Singlebeam 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 4505
Survey No.: MA_58_BUT_20200224_CS_017
Reference NOAA Chart No.: 13236

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 February 2020. 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 2.29 feet to 2.36 feet. These corrections are referenced from NOAA's V-Datum Model Version 3.9, MENHMA region Version 1.3, in the vicinity of Buttermilk Bay, Buzzards Bay, Massachusetts. NAVD88 is above MLLW; therefore the correction should be added to NAVD88 to convert to MLLW. No tide gauges were used on this project.

US Army Corps
of Engineers
District: CENAE

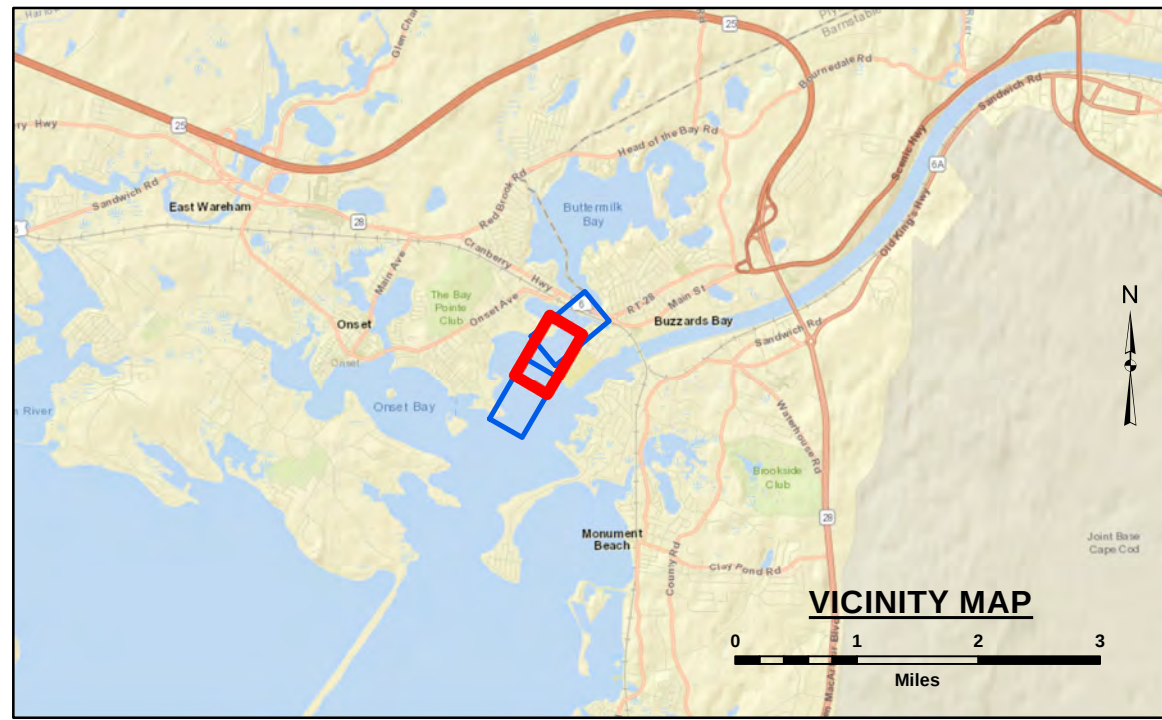
DISCLAIMER
Accession: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were collected. The user is responsible for the results of any use of the data for any purpose other than that for which they were collected. The user is responsible for the results of any use of the data for any purpose other than that for which they were collected. The user is responsible for the results of any use of the data for any purpose other than that for which they were collected.

U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT		MAP DOCUMENT MA_58_BUT_20200224_CS_017	
SUBMITTED BY: Zachary McAvoy	SURVEYED BY: BJF		ISSUE DATE: 3/18/2020
	CHECKED BY: ZSM		
APPROVED BY: NAE Survey	SIZE A1S1 D		

BUTTERMILK BAY CHANNEL
BOURNE AND WAREHAM, MASSACHUSETTS
CONDITION SURVEY

6 AND 7-FOOT CHANNELS
Buttermilk Bay Channel
Sheet 1 of 3

Revision Number: 4.1-20191105



LEGEND

--- Federal Navigation Channel	✱ Fixed Navigation Aids
--- Channel Center Line	🚩 Red Navigation Buoy
..... Cable/Pipeline Area	🚩 Green Navigation Buoy
— Contour Line	🚩 Junction Buoy
— Marine Infrastructure *	🔴 Shoaling Area
	🟡 Shoalest Sounding**

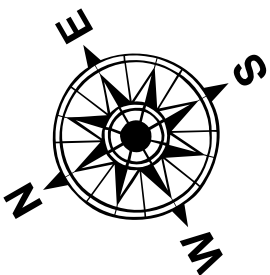
GRAPHIC SCALE

1" = 100'

0 100 0 100 200 Feet

Notes:

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



Notes:
Horizontal Datum: Mass Mainland, MA-2001 NAD 83
Distance Units: U.S. Survey Feet
Vertical Datum: MLLW
Depth Units: U.S. Survey Feet
Vessel Name: Popham Beach
Sonar System: ODOM MK 3 (Singlebeam 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 4505
Survey No.: MA_58_BUT_20200224_CS_017
Reference NOAA Chart No.: 13236

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Project Remarks
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Water Level Information
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**BUTTERMILK BAY CHANNEL
BOURNE AND WAREHAM, MASSACHUSETTS
CONDITION SURVEY**

**SHEET
IDENTIFICATION
Buttermilk Bay
Channel
Sheet 2 of 3**

