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TRANSMITTAL

To: Subject:	Harwich Waterways Committee c/o John Rendon, Harbormaster 715 Main Street Harwich, MA Notice of Intent Application Review Proposed Maintenance Dredging & Additional Fender Piles Paul & Diane Manning 16 Harbor Road Harwich Port, MA Map 8 Parcel S2			Date: 3/31/21 Project No. C16572.03 Via: ☐1st Class Mail ☐Pick up ☑Delivery ☐Fed Ex Phone: Fax: No. of pages to follow:			
Copies	Date	No.	Description				
6	Rev. 3/31/21		Project Description				
6	Rev. 3/31/21		Coastal Engin	neering Co.,	Inc., "Plan Showii	ng Proposed D	redge Area"
These are transmitted as checked below: onumber of the second se							
Remarks: Enclosed please find copies of the revised plans for the referenced project.							
If you have any questions, please contact our office.							
cc: Harwich Conservation Commission By: Sarah Cole Paul Manning, owner Charlie A. Agro, Coastal Engineering Company, Inc.							

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Baylew Wychmere Harbor

PROJECT DESCRIPTION - REVISED 03-31-2021

Wychmere Harbor Harwich, MA

Site Description

The proposed project site is located at 16 Harbor Road in Harwich MA which is situated along the Wychmere Harbor Shoreline. Wychmere Harbor is a tidal waterbody hydraulically connected to Nantucket Sound. Wychmere Harbor serves as a berthing site for many recreational vessels and commercial fishing vessels. Most vessels within the harbor are seasonal aside from a few year-round vessels which are typically commercial fishing vessels. Numerous vessels are docked along the shoreline at marinas and private docks as well as moored within the middle of the harbor basin.

The proposed project site is a private property along the shoreline which has an existing bulkhead, revetments, piers, ramps, and floating docks. The existing structures below the mean-high water (MHW) line were permitted under OOC SE 1987 and are licensed under MA DEP Chapter 91 License No. 3912 and

permitted under ACOE Permint No. NAE-1993-1253. The docking system provides safe storage vessel owned by the property owner. Seaward of the existing docking system there is an improvement dredge area that has been previously dredged to -6' MLW (with a 1 foot allowable over-dredge). The improvement dredging was permitted under OOC SE 32-2143, MA DEP C.91 Dredge Permit No. 13726 (still active), and ACOE NAE-2013-01727 (still active).

Project Description

The proposed project is to conduct maintenance dredging of the area at the end of the applicant's licensed pier and a portion of the harbor to the west of their pier between them and the Stone Horse Yacht Club floats, which is a relatively shallow area. The proposed maintenance dredge area has been permitted as improvement dredging and has been dredge in the past. The proposal is to apply for a new Orders of Conditions (OOC) to allow maintenance dredging of the same footprint that was previously dredged and to the depth. The MA DEP C.91 Dredge Permit and ACOE Dredge Permit will be updated to include maintenance dredging. Ongoing maintenance dredging would improve the underwater habitat and establish a more serviceable depth of water during low tides in the interest of navigational safety. In this particular area turbidity is periodically caused by normal boating activity during high and low tides. As a result of natural tidal flow in Wychmere Harbor the silt/muck has been depositing in this area over time and is in need of removal through dredging.

The proposed project also includes the installation of batter pile attached to the existing dolphin pile to provide more support for the owner's vessel while docked. The locations of battered pile is shown on the plan. During the Harbor and Waterways Committee hearing on 03-17-2021, the committee members suggested the removal of the proposed dolphin pile and associated battered pile. The plans were revised and the new dolphin pile and associated battered pile was removed. The committee members also asked if it would be more effective to remove the existing dolphin pile and replace it with a newer larger pile rather than augment it with an additional battered pile. After an inspection of the pile and a review of the construction history of the pile, it was determined that the existing fender pile should remain in place and augmented with a battered pile. The existing dolphin pile was installed during the winter of 2017/ 2018 and upon an inspection (above the waterline at low tide) appears to be in good condition. It is also similar in diameter and in material to the other existing piles on the referenced property as well as the piles at the adjacent marina, Stone Horse Yacht Club. Therefore, it is our recommendation that the existing dolphin pile remains in place and is augmented with a new battered pile as shown on the plans. The proposed battered pile would be installed by a barge and would cause minimal disturbance of the seafloor during the installation. Prior to installation, a silt boom should be installed around the work area to reduce the spread of turbidity into the adjacent waters. We anticipate that the new battered pile will be permissible under a minor modification application to the existing Chapter 91 License for the existing docks.

The resource areas within 100 feet of the project site include Land Under the Ocean, Land Containing Shellfish, and Salt Marsh.

<u>Summary</u>

In conclusion, the project has a low impact on the environment in the harbor. There will be a slight increase in turbidity in the immediate area of the dredging and battered pile installation. Engineering controls will be used to minimize potential impacts from resuspension of finer sediment particles by using turbidity curtains and monitoring during the dredging process. This will help control and localize the suspended materials to the immediate dredge footprint. The applicant is submitting a Notice of Intent application to request the ability to perform maintenance dredging in an area of Wychmere Harbor to the previously permitted dredge

depth of -6 MLW. The purpose of this project is to conduct maintenance dredging as needed to maintain the navigable water depth in the area to provide safe access to the property site by vessel. The project will increase the safety to navigation as well as increase the health of the environment for the aquatic life in the harbor, and increase the water quality and circulation to the harbor.

