

Wetland Strategies, Inc.

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MEMORANDUM

TO: John Weddleton, Chairman
Norfolk Conservation Commission

FROM: Lenore White, PWS

DATE: June 20, 2016

SUBJECT: Professional Wetland Services
Notice of Intent
84 Cleveland Street, Norfolk, MA

Wetland Strategies, Inc. (WSI) has completed its review of the Notice of Intent filed by Andrews Survey & Engineering, Inc. (QSE) for the construction of a residential townhouse community at 84 Cleveland Street in Norfolk, MA (the "site"). A site inspection was held on June 9, 2016 and the limits of the flagged wetland resource areas were viewed and evaluated. Pursuant to the review, WSI offers the following comments for your consideration.

1. On June 9, 2016 WSI reviewed the bordering vegetated wetland delineation (BVW) on the site. During the course of the inspection, WSI did not agree with all of the flagging locations and suggests the following review by the applicant's biologist. Specifically, changes are needed at the following locations:
 - WSI located flag 36 R which is not shown on the plans. The plans should be revised to include all wetland flags. Additional wetland areas located on the Butters land were present and the 100 foot buffer zone from these wetland areas may occur on the site. WSI suggests a review of this area, located north and west of the flagged wetland area.
 - At wetland flags 34 and 35, fill was observed within the buffer zone of the flagged wetland. This is the same area where a stream channel is present and WSI suggests the stream be shown on any project plans.
 - At flags 25 and 26, WSI observed a small ditch that connects the upland area to the pond. The plans do not appear to show this area as a wetland area and WSI suggests the plan be revised. See the attached photograph of this area.
 - Flag 23 should be moved up-gradient by approximately 12-15 feet to include the predominance of sedges and the long term hydrological indicators (buttressed roots).
 - Flag 22 should be moved up-gradient by approximately 6 feet to account for the red maples and blueberry plants.
 - Flag 14 should be moved up to account for the cinnamon ferns, or could be eliminated by connecting flag number 13 to flag number 15.
 - Flags 11 and 12 should be moved up to include the cinnamon ferns and red maples, and stop where the witch hazel plants dominate.

- Flags 5 and 6 should be moved up-gradient to the toe of slope, at the 96 foot contour elevation.
 - WSI could not find flags 1 and 2 on the site.
2. WSI also reviewed the Notice of Intent application. In the Notice it states that a separate review is currently underway with the Natural Heritage and Endangered Species Program as the site is located within an Estimated and Priority Habitat. Because the site is within Estimated Habitat, WSI recommends that the Commission take no action until they are in receipt of a letter from the Natural Heritage Program, or until 30 days has elapsed in accordance with 310 CMR 10.59.
 3. MA GIS reveals there are no flood zones, or Bordering Land Subject to Protection on the site. No potential or certified vernal pools are located on the site.
 4. WSI also reviewed the StreamStats program, to review the status of the stream which flows into a pond, both of which are located on lands to the west of the site. StreamStats reveals that the watershed which supports the stream is small and covers 0.04 sq. miles. Because of the relatively small watershed, the stream has been determined to be intermittent and no riverfront area is present along the inlet stream. A copy of that analysis is shown below.

Date: Mon June 20, 2016 11:49:20 AM GMT-4
Study Area: Massachusetts
NAD 1983 Latitude: 42.1361 (42 08 10)
NAD 1983 Longitude: -71.3179 (-71 19 05)

Label	Value	Units	Definition
DRNAREA	0.0413	square miles	Area that drains to a point on a stream
DRFTPERSTR	-100000	square mile per mile	Area of stratified drift per unit of stream length
CRSDFT	0	percent	Percentage of area of coarse-grained stratified drift
ACRSDF	0	square miles	Area underlain by stratified drift
WETLAND	4.95	percent	Percentage of Wetlands
PCTSNDGRV	0	percent	Percentage of land surface underlain by sand and gravel deposits

The stream which exits the pond however is shown as perennial and therefore presumed perennial unless the applicant opts to overcome the presumption per the regulations. WSI suggests the plans be revised to show the 200-foot riverfront area associated with the outlet stream.

Wetland Strategies looks forward to discussing these findings at the next hearing, now scheduled for July 6, 2016. In the meantime, please contact this office with any questions.