

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

January 31, 2021

Michael Andrade, PE
Graves Engineering, Inc.
100 Grove St.
Worcester MA 01605 via email: mandrade@gravesengineerng.com

RE: Charles River Country Club, Newton, MA

Subject: Wetland Resource Evaluation, Proposed Turf Care Facility Project

Dear Mr. Andrade:

On November 18, 2020, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the “Act”) and its implementing regulations (310 CMR 10.00 *et seq.*; (2) the “Regulations”); and (2) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands). Paul J. McManus, PWS conducted the inspection.

The subject site of this evaluation consists of the area within 300 feet of the existing Charles River Country Club Turf Care Facility located off Winchester Street in Newton. This location includes a metal building on a slab foundation with offices and equipment storage/ maintenance areas. Paved and gravel driveway, parking and storage areas are located in the general vicinity. Undeveloped areas consist of wooded upland immediately surrounding the building and parking lot, and developed golf course further north, east, and south. To the west of the building is an undeveloped wooded area, Winchester Street, and a Nahanton Park, a public park located across Winchester Street. The undeveloped wooded area consists primarily of a closed canopy dominated by northern red oak (*Quercus rubra*), eastern white pine (*Pinus strobus*), northern white oak (*Quercus alba*), black cherry (*Prunus serotina*) and black locust (*Robinia pseudoacacia*) trees.

A low-lying undeveloped area to the immediate west of the existing building and driveway was evaluated in particular. This area appears to receive runoff from the developed area, and contains a plant community strongly dominated by upland species. This area had no leaf staining, hydric soils, or other evidence of wetland hydrology.

The Massachusetts Rivers Protection Act amended the Wetlands Protection Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Boston South Quadrangle, dated 1987, attached) and observations made during the site inspection, there are no mapped or unmapped streams located within 200 feet of the site. Accordingly, Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act.

Michael Andrade, PE

RE: Charles River Country Club, Newton, MA Proposed Turf Care Facility Project

January 31, 2021

Page 2.

The Massachusetts Wetland Regulations and the Massachusetts Endangered Species Act require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, on-line edition, Priority Habitats and Estimated Habitats, available on MassGIS and downloaded on 1/31/2021 there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

Based upon the above evaluation, it is EcoTec's opinion that the area within 300 feet of the existing turf care facility building does not contain any wetland resource areas subject to the Massachusetts Wetland Regulations or the US Clean Water Act. Similarly, the site locus is not located within an area mapped as state-listed species habitat.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. A brief description of my experience and qualifications is attached. If you have any questions, please feel free to contact me at any time.

Cordially,
ECOTEC, INC.

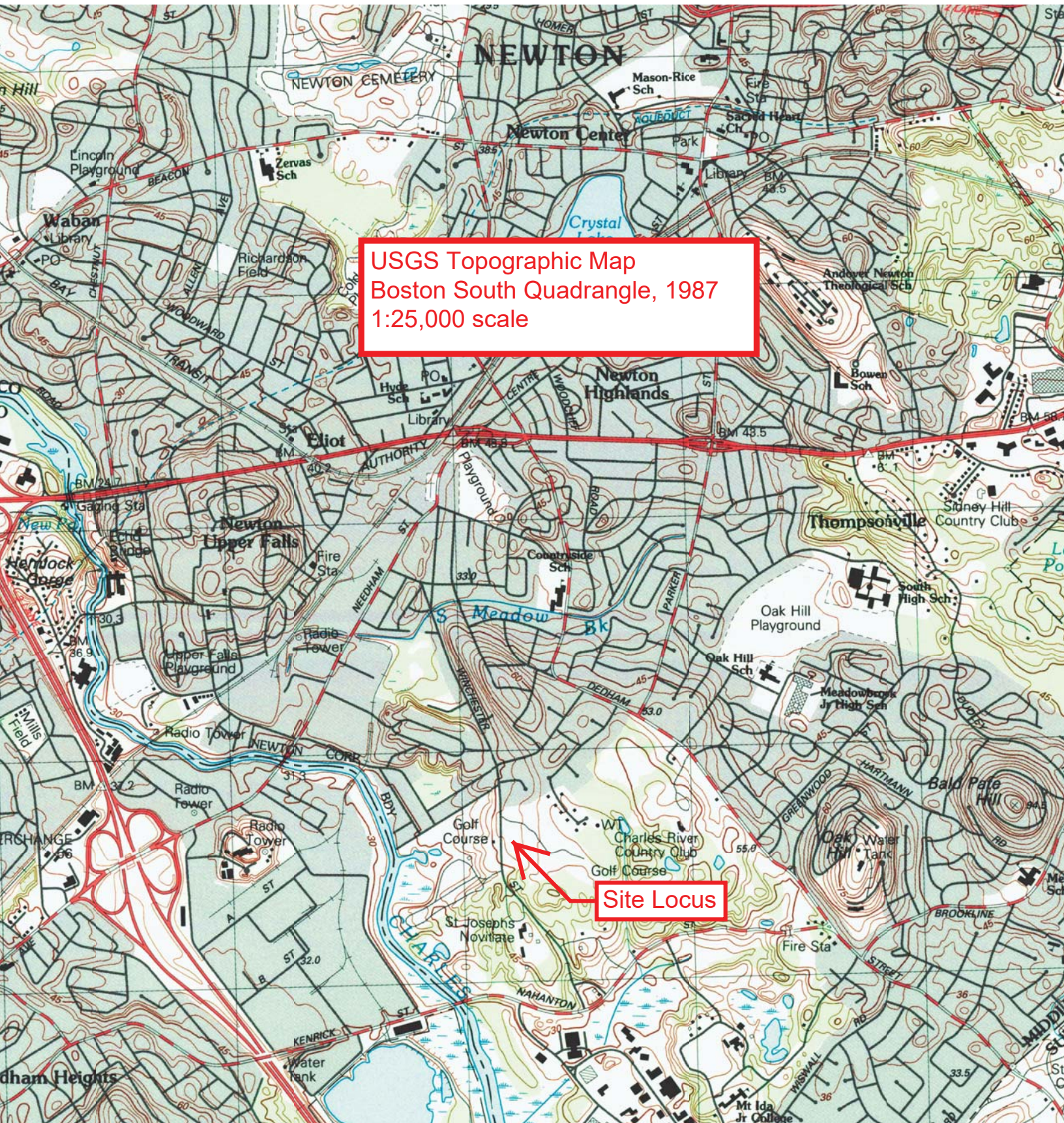


Paul J. McManus, PWS
President

Attachments:

- USGS Topographic Map
- Natural Heritage Atlas Datalayers

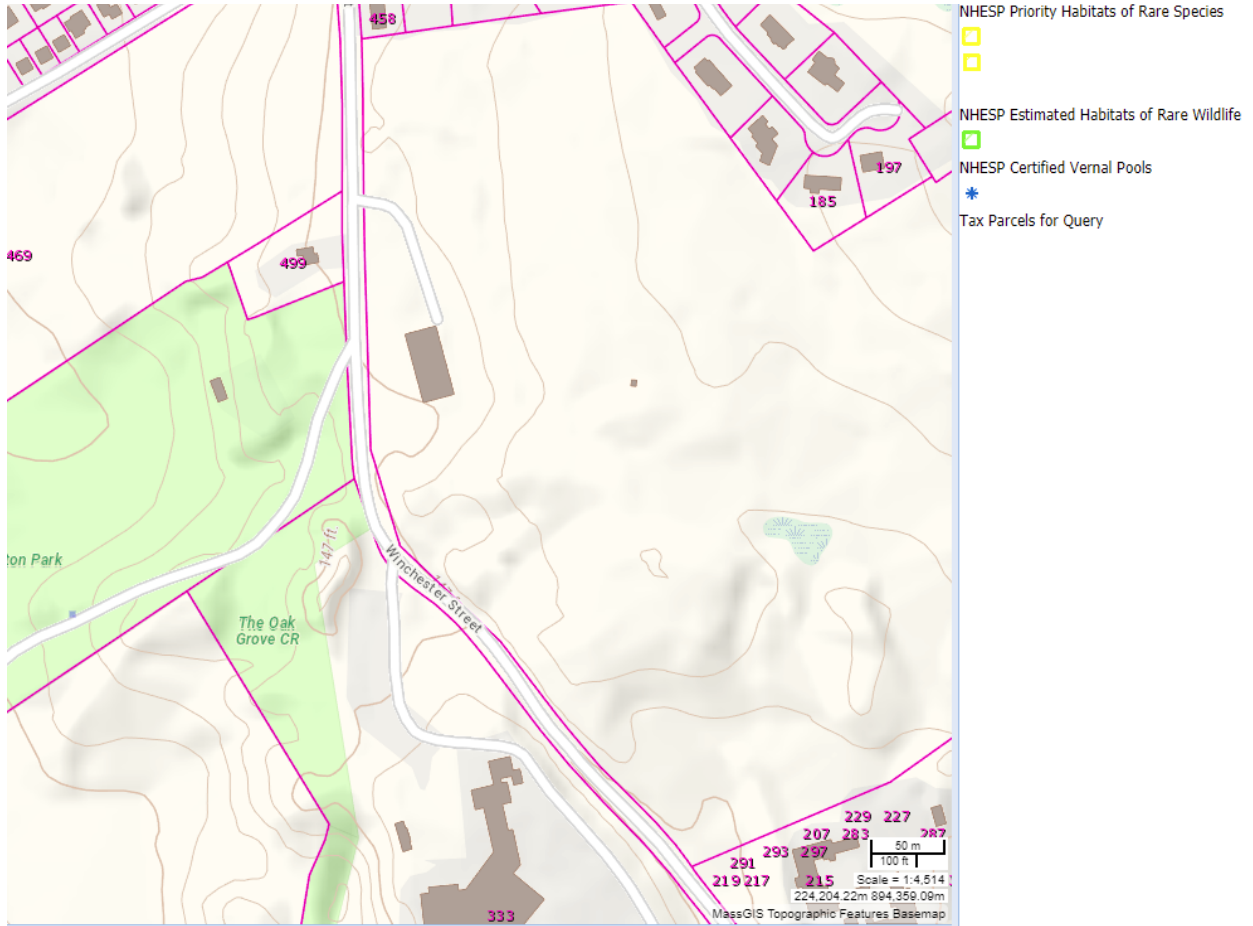
PJM\W\N\CRCC\TC\CRCC Maintenance Bldg Expansion Wetland eval.doc



USGS Topographic Map
Boston South Quadrangle, 1987
1:25,000 scale

Site Locus

Natural Heritage Atlas
Charles River Country Club Turf Care facility
Winchester Street, Newton, MA



EcoTec, Inc.
ENVIRONMENTAL CONSULTING SERVICES
102 Grove Street
Worcester, MA 01605-2629
508-752-9666 – Fax: 508-752-9494

Paul J. McManus, LSP, PWS
President

Paul McManus is the President and owner of EcoTec, Inc., which he founded in 1990. He is a certified Professional Wetlands Scientist (PWS) from the International Society of Wetlands Scientists (SWS), the leading professional organization in the field, where he served as President of the New England Chapter of SWS, representing the Chapter on the International Board of Directors for several years, and currently serves as Chapter Treasurer. Mr. McManus is also a Massachusetts Licensed Site Professional (LSP) with experience including a wide range of projects, focused on ecological risk assessment at sites with contaminated wetland resources. Prior to the founding of EcoTec, Mr. McManus was employed at other Massachusetts consulting firms and as an aquatic ecologist at the Massachusetts Division of Water Pollution Control. Mr. McManus brings a wide variety of environmental consulting experience to EcoTec, including wetland evaluation and delineation, lake and stream assessment, wildlife habitat evaluation, oil and hazardous materials ecological risk assessment, and a variety of other types of environmental impact assessment. He has conducted detailed wetland community surveys and impact restoration specifications in "Areas of Critical Environmental Concern" (ACECs), and led the local, state and federal wetland permitting, including vernal pool mitigation design and a Wetlands Protection Act Variance, at the MWRA's Norumbega Reservoir property in Weston. He has directed hundreds of other wetlands projects at sites including large and small residential and commercial developments. He has completed all phases of environmental permitting work, including wetland delineation, replication and mitigation design, implementation, and monitoring in freshwater wetlands and salt marsh, as well as general wildlife and rare species assessments and trapping, including marbled salamander, 4-toed salamander, wood turtle, and eastern box turtle, under the MA Wetlands and Endangered Species Act Regulations. Permitting efforts regularly include federal, local and state permitting, including filings under the Massachusetts Environmental Policy Act (MEPA) regulations. Additional projects he has directed include major biological and chemical marine sampling programs; he has been involved in a variety of freshwater system evaluations, and conducted evaluations and sampling for proposed fresh water and marine dredging projects. He also has experience in large scale soil reuse projects, where he completed wetland permitting and served as the independent third-party monitor in accordance with voluntary Administrative Consent Orders for the sites. Mr. McManus serves as a consultant on behalf of government, business, private citizens, utility companies, the development community, conservation commissions, and concerned citizens' groups. He presently serves on a continual basis as technical wetlands consultant for the Town of Dover Conservation Commission, and works regularly for Boylston, Shrewsbury, and other Commissions providing peer review expertise for varied projects.

Education: Master of Science: Applied Marine Ecology - University of Massachusetts/Boston, 1988
Bachelor of Arts: Biology (Ecology emphasis) – College of the Holy Cross, Worcester, MA, 1984
U.S. Fish and Wildlife Service: Habitat Evaluation Procedure (HEP) Certification
Massachusetts Division of Water Pollution Control: Algal Assay (eutrophication) Short Course

Professional Affiliations: Massachusetts Association of Conservation Commissioners
(Partial list) Society of Wetland Scientists (Treasurer and former President of the New England Chapter)
Association of Massachusetts Wetlands Scientists
Society of Environmental Toxicology and Chemistry
Licensed Site Professional Association

Certifications: Society of Wetlands Scientists Professional Wetlands Scientist # 962
Commonwealth of Massachusetts Licensed Site Professional # 5711
OSHA Health & Safety Hazardous Waste Safety Training, 29 CFR 1910.120 (40 hr & refresher)