

ZONING

185 Attachment 4

APPENDIX C LAKE MANAGEMENT PLAN CHECKLIST (§ 185-21C)

- A. Purpose. The information submitted is intended to provide sufficient data to document the present condition of the lake using standard trophic indices and to prescribe management practices to preserve and restore desirable lake characteristics.
- B. Requirements. All applicants for major subdivisions which involve a lake or pond of 5 acres or more in the MIDD Zone must provide a lake management plan. This plan shall consist of an ecological inventory and management plan as described in the checklist below. In certain cases, the approving authority may waive part or all of the submission requirements, as documented in the minutes of the approving authority.
- C. Documents to be submitted.
 - (1) Ecological inventory to include the following:
 - (a) Data indicating water quality characteristics from recent water samples. Water samples should be taken from surface, middepth and bottom layers of the lake at its deepest region, as well as any outlets from the lake.
 - (b) Field data concerning the vertical distribution and stratification of temperature, oxygen and pH in the lake at several points.
 - (c) A description of the lake watershed including: physiographic province and bedrock geology; size of the watershed; streams which drain the subareas of the watershed; visual appearance; and, water quality assessment.
 - (2) Lake management plan, addressing the following areas:
 - (a) Watershed management techniques through the identification of point and nonpoint source inputs to the lake and control of inputs where possible. Emphasis should be placed on the reduction of inputs.
 - (b) Plans for lakes that are excessively eutrophic should consider dredging to remove nutrient-rich sediments and aeration to reduce oxygen stress and promote viability of fish populations.

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- (c) Harvesting of vegetation, particularly larger aquatic plants, to reduce nutrient levels.
- (d) Fertilizer use to ensure that excessive amounts are avoided and that they are not applied in advance of periods of heavy rainfall.