



Town of Marshfield

BOARD OF HEALTH

870 MORaine STREET
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September 28, 2016

To: Zoning Board of Appeals

From: Board of Health *AK*

RE: Ferry St. 40B Proposal

The Board of Health has reviewed the plan for the 40B proposal for Ferry St (Progress Print of October 1, 2015 by Grady).

The plan proposes to include eight separate septic systems for a total flow of 6,690 gallons/day to serve 21 buildings for a total of 60 bedrooms. The land on which these systems are situated is stated to be 435,600 sq. ft. (10.89 Title 5 acres). In order to meet the Nitrogen Loading requirements of Title 5, a Total of 15.2 Title 5 acres would be necessary unless alternative technology (advanced treatment) is used or Aggregate Loading is used with additional nitrogen credit land (310CMR 15.216)

If credit land is proposed, the land must meet all credit land qualifications as outlined in DEP's "Guideline for Title 5 Aggregation of Flows and Nitrogen Loading". We have attached a copy of this document for your review. If this is the case, as the flow for this proposal exceeds 2000 gallons/day, the Board of Health may require that the applicant meet a groundwater quality standard using a site specific mass balance analysis at the down gradient credit land property boundary or nearest down gradient sensitive receptor. In addition, the Board of Health may also require use of the DEP Nitrogen Loading model to show the impact on the Public Water Supply well. The attached DEP Guidelines cover this in more detail.

In addition, the Board of Health is concerned with the steep slope behind some of the proposed buildings. Adequate measures should be taken to address potential erosion, water runoff and safety issues that could result from these contours.