

Steven N. Kosusko
Land Surveyor & Septic System Designer
287 Loudon Ridge Road
Loudon, NH 03307

Stephen and Lori Lamb
66 Bennett Road
Durham, NH 03824

October 7, 2014

RE: Septic System "B" Capacity – Proposed Function Hall, 90 Bennett Road, Durham NH,
CA2009097020

Dear Steve and Lori,

After reviewing the original approved septic system designs I did for you at your property at 90 Bennett Road, it is my opinion that a system can be designed and approved that will increase the capacity of the Function Hall system from 100 guests to 150.

The items I considered in this determination were:

1. Lot loading capacity as defined by the NHDES. The remaining capacity would accommodate about 150 more guests.
2. The impact of increased water usage on the protective well radius. An increase in this well radius would impact the system as it exists and any increase in its foot print. Before triggering an increase in the existing radius, about 80 more guests could be accommodated.
3. The increase in the required nitrate setbacks from the expanded system as defined by the NHDES. As currently designed and installed the nitrate setbacks of the system for the inn and the function hall do not overlap. About 60 more guests could be accommodated before an increase in the nitrate setback would be triggered.
4. Sufficient area on the lot to accommodate the septic expansion. The expansion of the system would involve adding a septic tank and more Enviro-Septic tubes. There is sufficient space for this to happen.

The most restrictive item above is the nitrate setback, which limits the expansion to 60 additional guests. Based on this I believe a total of 150 guests is reasonable. I have not drawn up a plan yet, but am confident one could be made that would meet with NHDES approval for 150 guests.

Sincerely,



Steven N. Kosusko
Designer Permit #1252

