



January 31, 2023

Ms. Terri Guarino, R.S., C.H.O.  
Bourne Board of Health Agent  
24 Perry Avenue  
Bourne, MA 02532

**RECEIVED**

By Bourne Health Department at 9:10 am, Feb 01, 2023

**RE: 3 Sunny Lane, Bourne, Liam Coyne**

Dear Ms. Guarino:

Thank you for speaking with me the other day about this project. Per our conversation, please find enclosed the following information for the Boards consideration:

1. Nitrogen Loading Calculations following the Town of Bourne Conservation Commission format. These results are the same as the spreadsheet printout previously submitted. This method shows a reduction in nitrogen from 17.56 ppm to 10.48 ppm, or a 40% reduction.
2. Nitrogen Loading Calculations in the form of the spreadsheet you provided, both in excel spreadsheet form and a pdf printout of the results. This calculation produces results that are slightly different from the Conservation Commission format. This results from a difference in the actual wastewater value utilized in the two methods. This method shows a reduction in nitrogen from 18.40 ppm to 10.84 ppm, or a 41% reduction.

We also spoke about which DEP approval this project would fall under. I spoke with Michael Moreau, who is the local rep for the NitrifAST system. He stated in this case the NitrifAST the system, with the target of 19mg/l, would be permitted under their Remedial Use approval (Transmittal Number W072367). This transmittal number is correctly referenced in the previously submitted application and on sheet two of the previously submitted plans. It is our opinion that this project qualifies for Remedial Use approval, as this project would not be considered new construction under Title 5. There is currently a three-bedroom dwelling on the property that is serviced by an existing sewage disposal system that is proposed to be replaced. There will not be any increase in the number of bedrooms for the project nor an increase in design flow. This is consistent with the definition of New Construction found in Title 5, which states, in part, *New construction shall not include replacement or repair of a building in existence as of March 31, 1995 that has been totally or partially destroyed or demolished, provided there is no increase in design flow, no increase in design flow above the existing approved capacity to any system, no increase in the number of dwellings or dwelling units or no increase in the number of bedrooms in any dwelling or dwelling unit.*

We hope this information will allow this project to move forward. Please place un on the schedule for your next available hearing.

Sincerely,

N. Douglas Schneider, P.E., P.L.S.

Encl. Nitrogen Loading Calculations for existing and proposed conditions.  
NitrifAST Remedial approval (Tran No. W072367)  
Pdf copy of original application and plan