



## CONCORD PUBLIC WORKS

135 KEYES ROAD  
CONCORD, MASSACHUSETTS, 01742-1601

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October 21, 2022

Mr. James Smith  
Chairperson  
Town of Concord  
Zoning Board of Appeals

Re: Planned Residential Development - Rookery Lane 48 Fitchburg Turnpike  
Comments on Potential Wastewater Impacts to White Pond Well

Dear Mr. Smith:

Concord Public Works' Water and Sewer Division has reviewed design plans for wastewater discharge associated with the Quarry North Road LLC development located at 36 North Road in Sudbury and the Rookery Lane PRD. We take no acceptance to the projects as proposed.

The Water/Sewer Division had the opportunity to review the design and a resulting Hydrogeologic Evaluation and Groundwater Mounding Analysis prepared by GeoHydroCycle, Inc. (GHC) for the proposed development by Quarry North Road LLC, located at 36 North Road in Sudbury. This Hydrogeologic Evaluation was done in support of a 49,755 gallon per day Groundwater Discharge Permit Application (GWDPA) for the project slated 36 North Road. As part of this evaluation, GHC completed a groundwater model to conduct a Groundwater Mounding Analyses to aid in the evaluation of potential impacts to Concord's White Pond well and Sudbury's Well #5.

A key finding included in his report was the groundwater discharge leaching field for the wastewater treatment facility would be sited outside the Zone II (Zone of Contribution) to the White Pond well. Furthermore, based on the detailed groundwater modeling exercise, impact to Concord's water supply would be "unlikely". At the request of both Concord Water and Sudbury Water District, Quarry North Road LLC was required to install a groundwater monitoring network to allow for pre and post development assessment of their system.

While the information provided for the proposed Rookery Lane PRD does not clearly show Concord's Zone II on the plans submitted, the septic system locations also appear to be located outside the Zone II of Concord's White Pond wells.

Respectfully Submitted,



Alan H. Cathcart, Director  
Concord Public Works

CC: Jeffrey Murawski, Water/Sewer Superintendent  
Stephen Dookran – Town Engineer – Concord Public Works  
Elizabeth Hughes – Town Planner