

November 20, 2024

Stonemount Enterprises Ltd.
4 Romans Drung
Logy Bay, NL
A1K 0H6

Dear Mr. Caddigan,

RE: Level I & Level II Groundwater Assessment, Jones Pond, Logy Bay-Middle Cove-Outer Cove, NL, Approval

This report addresses the criteria for a Level I and II Groundwater Assessment as outlined in our document, Groundwater Supply Assessment and Reporting Guidelines for Sub-Divisions Serviced by Individual Private Wells.

Based upon the results from the test wells and the hydrogeology of the area the report concludes that groundwater quality and quantity should be sufficient for supplying water to this development (17 lots). However, well yields will be variable, and there may be instances where a well may have inadequate supply for a single-family home and require additional storage (external or in-well storage) or a well may be of poor water quality and require treatment. The pump test results indicate that there is some well interference in the proposed subdivision, and the Department recommends the use of water conservation measures such as the use of low-flow water devices in each home constructed to reduce overall demand on groundwater supplies and encouraging residents to use sustainable practices for non-consumptive water usage, like rain barrels for garden/lawn watering. The Department also concurs with the consultant's recommendation of not using groundwater wells to fill pools or hot tubs.

Furthermore, the Department recommends, installation of additional casing lengths (at least 12 meters) to help protect against contamination from surface runoff or shallow groundwater of poor quality. Well casings should be firmly seated into bedrock and grouted from drive shoe to surface. The use of open looped groundwater sourced heat pump systems are prohibited in the proposed development. Water quality testing for both bacteriological and water chemistry is required to be conducted on all wells constructed in the proposed development to ensure water quality meets the Canadian Drinking Water Quality Guideline values, and if there are exceedances then treatment will be necessary. All wells should be set back at least 30 m from surface water bodies, including wetlands, streams, brooks and drainage ditches.

This Approval does not release the Approval Holder from the obligation to obtain appropriate approvals from other concerned municipal, provincial and federal agencies.

Please contact the municipality and Megan Pederson with Water Resources Management Division (meganpederson@gov.nl.ca) to obtain any required municipal and provincial permits.

Please contact this office at (709) 729-1671 or email angelabuchanan@gov.nl.ca if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Angela Buchanan".

Angela Buchanan
Groundwater Resources Manager
Water Resources Management Division
Department of Environment and Climate Change

Please note, this approval letter expires two years after issuance.

Cc Tammy McDonald, Manager of Operations (Environmental Health), Department of Digital Government and Service NL
Tom Jardine, Manager of Engineering Services, Department of Digital Government and Service NL
Susan Arns, Town Manager/Clerk, Logy Bay, Middle Cove, Outer Cove
John Gale, Fracflow Consulting Ltd.
Megan Pederson, Water Resources Technician, Department of Environment, and Climate Change