WARRANT ARTICLE

SUNCOOK POND WASTEWATER PUMP STATION

BACKGROUND

Presently, almost half of the wastewater generated in Allenstown is conveyed to Pembroke via a sewer line beneath the Suncook River next to Suncook Pond Estates. The wastewater from Allenstown flows through a portion of Pembroke's sewer system then flows back across the Suncook River into Allenstown via another pipeline that connects to Allenstown's sewer system on Canal Street adjacent to where Reynolds Avenue intersects Canal Street. There are several problems with the current arrangement.

Figure 1: Metering station where Allenstown flow crosses the Suncook River to Pembroke.

First, wastewater flow from Allenstown is using capacity within Pembroke's sewer system that would otherwise be available to Pembroke. Second, in order to track wastewater flows for billing purposes and flow reporting, the wastewater flow must be metered where it leaves Allenstown and crosses into Pembroke and then again where the flow crosses from Pembroke back into Allenstown. The wastewater flow from Pembroke has to be calculated, both for reporting and for billing, by calculating the difference in flows at the two metering stations. The wastewater flow is then metered a third time as it enters the wastewater treatment facility. The third problem is that the pipe crossings beneath the river are suspected of being sources of significant groundwater infiltration into the sewer system based on the age, condition and location of the pipes. Infiltration is non-wastewater flow, such as groundwater, that enters sewers pipes through cracks, leaking joints and other structural defects in the pipe. Extraneous water from significant infiltration unnecessarily uses up valuable capacity within the sewer system and the wastewater treatment plant that should be used only for wastewater flow and causes additional expense to the Town for treatment at the wastewater treatment plant and for operation and maintenance of the sewer system.

THE PROJECT

Construction of the Suncook Pond Wastewater Pump Station would intercept the wastewater from Allenstown before it crosses the Suncook River into Pembroke and pump the wastewater to another loca-

tion within Allenstown's own sewer system via Library Street. Construction of this project would remove Allenstown's wastewater from Pembroke's sewer system which would keep Allenstown's sewer system more independent of Pembroke's sewer system and greatly simplify flow measurement and billing for wastewater service. It would restore wastewater flow capacity within Pembroke's sewer system that is being used by Allenstown. It would also eliminate the need to meter (measure) wastewater flows at two different locations and would reduce the amount of extraneous groundwater entering the sewer system and using up valuable wastewater capacity in the system.

The warrant article is to authorize and appropriate a sum of $1.616 million to fund the total cost of the new wastewater pump station. This cost includes final design (engineering), permitting, approvals, construction of the new pump station, construction phase engineering services and acquisition of easements for the new pump station and associated pipelines. The project would be funded by a loan through the State Revolving Fund (SRF) loan program administered by the New Hampshire Department of Environmental Services (NHDES) or a loan through the municipal bond bank depending upon which option offers the most favorable financing terms. **Repayment of the loan will be made using accumulated sewer funds**.