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engineering and environmental consulting

October 17, 2016

Mark and Tracie McGill

51 Corlear Drive

Willsboro, NY 12065

RE: Scope of Work and Cost Estimate to Develop Plans for Shoreline Stabilization

Dear Mark and Tracie,

It was a pleasure to meet you both on September 29 at your property along Willsboro Bay. This scope of work and cost estimate has been developed to assist you in developing a shoreline stabilization solution for your property and is based on our meeting and conversations. We are also available to provide additional permitting and construction support as needed.

On the day that we met, I was able to gather information about the magnitude and nature of the shoreline erosion that has occurred at your property. It appears that high lake levels in the Spring of 2011 caused damage to the shoreline above the stone rip rap at the top of the beach (above about 102 feet above sea level elevation). From existing mapping and the survey data collected that day, Erik Sandblom, PC (ESPC) will develop a base map of the lake frontage for the property and a cross section(s) and will be used for the development of drawings.

You have indicated that your preferred method of stabilization is a retaining wall constructed from a pre-cast manufactured block wall system known as Redi-Rock. The reason for a retaining wall is due to the height of the damaged area (approximately 6 feet in height), close proximity to the house, steep bank in this location, and that you have identified an affordable source for the blocks. ESPC agrees that a retaining wall is an appropriate method of slope stabilization in this instance given the reasons listed, that the toe of the wall will be above normal flood stage for the lake, and there is a shallow sloped rock surface that will lead up to the toe of the wall.

ESPC will develop conceptual drawings to show the location and elevation of the proposed wall. We will also confirm that location and configuration of the wall is appropriate based on an estimation of wave, wind, and ice action as well as longshore drift in this area of the lake. Pending this confirmation, more detailed plans will be developed consisting of a basic plan and cross section and minimum details needed to obtain permits and guide construction. It is expected that the plans will be sufficient for your use in obtaining the required permits to construct the project. It is understood that you are already in the process of obtaining a Town construction / zoning permit. After completing the survey measurements at the site it appears that the extent of disturbance to install the wall will be above 98 feet in elevation, which means that a U.S. Army Corps of Engineers (USAOE) permit and New York State Department of Environmental Conservation (NYSDEC) may not be required. This will need to be confirmed. It has been assumed that wetlands will not be impacted.

The plans will include quantity estimates and other data that is typically required when an Adirondack Park Agency permit or variance is required. Based on our preliminary review it appears that an APA

variance will be required for the construction of a structure within 50 feet of the shoreline. We have included up to six hours of labor in our cost estimate to assist as needed in the process; however, costs may increase if significant assistance is needed to obtain the variance. For instance, it may incur additional cost for ESPC to attend a public hearing in support of the application.

Once permits have been obtained, ESPC will assist you in selecting and securing a contractor to complete the work.

Construction inspection services are not currently anticipated, but this can be arranged if requested.