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MEMORANDUM

To: Mr. George Desmond

From: Matthew T. Taverna, P.E.

Date: June 25, 2020

File No.: 05.0046650.01

Re: Seawall Evaluation Memorandum

GZA GeoEnvironmental, Inc. (GZA) has completed our evaluation of the existing, dry-stacked stone seawall located at 6 Manitou Court, Westport, CT. Using engineering assumptions on the width of the seawall base and soil parameters observed in nearby test pits, the dry-stacked stone seawall meets the requirements of the Connecticut State Building Code for overturning, sliding, and bearing capacity.

However, GZA observed locations at the northern section of the wall that are undermined, along the middle and southern section of the wall that are leaning or bowing toward the Saugatuck River, and a location at the southern part of the wall that has missing stones found on the landward side of the wall. Furthermore, from review of the upland conditions, geotextile fabric does not appear to have been installed which has led to minor erosion of the adjacent upland grade.

GZA recommends that the wall locations that are undermined, leaning, and bowing should be monitored on a yearly basis. If the issues continue or worsen, remedial action should be taken on the wall to repair these conditions. For the area with missing stones, GZA recommends that the voids be filled immediately. GZA also recommends that filter fabric be installed on the landward face of the wall to reduce erosion.

We appreciate the opportunity to work for you on this Project. Please contact the undersigned if you have any questions.

GZA GEOENVIRONMENTAL, INC.

Matthew T. Taverna, P.E.
Senior Project Manager

Russell J. Morgan, P.E.
Consultant Reviewer

David M. Barstow, P.E.
Associate Principal

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