

July 26, 2019
Project No. 19-150

Troy Werelius
c/o H2D Architecture + Design
23020 Edmonds Way, #113 Edmonds,
Washington 98020
Attn: Ms. Heidi Helgeson

**Subject: Statement of Risk
Proposed Addition
8452 North Mercer Way, Mercer Island, WA**

Dear Mr. Werelius,

This letter includes our statement of risk regarding the proposed addition project at 8452 North Mercer Way in Mercer Island, Washington. Our statement is made based on the review of the following design documents:

- Architectural plans prepared by H2D Architecture + Design dated June 25, 2019; and
- Structural prepared by Harriott Valentine Engineers dated June 18, 2019.

Based on our review, it is our opinion that our recommendations outlined in our report dated June 6, 2019 have been incorporated into the design of the above-referenced plans.

Per Mercer Island City Code, development within geologic hazard areas and critical slopes may occur if the geotechnical engineer provides a statement of risk with supporting documentation indicating that one of the following conditions can be met:

- a. The geologic hazard area will be modified, or the development has been designed so that the risk to the lot and adjacent property is eliminated or mitigated such that the site is determined to be safe; or

- b. Development practices are proposed for the alteration that would render the development as safe as if it were not located in a geologic hazard area; or
- c. The alteration is so minor as not to pose a threat to the public health, safety, and welfare; or
- d. An evaluation of site-specific subsurface conditions demonstrates that the proposed development is not located in a geologic hazard area.

It is our opinion that Criteria A, B, and C can be met provided that the development is designed and constructed in accordance with the recommendations in this report. We understand the size of the proposed addition is limited (i.e. about 62 square feet) and the proposed structure will be relatively lightweight. In our opinion, the proposed addition can be adequately supported using conventional footings found on at least 3 feet of properly compacted structural fill.

The site grades adjacent the proposed addition is relatively level. The proposed addition is over 50 feet away from the watercourse at the site. Because the excavation for the proposed building addition will be relatively shallow (i.e. less than 4 feet deep) with a small footprint, we do not anticipate the excavation and backfill for the proposed building addition to impact the nearby watercourse or slopes. We also do not anticipate that the proposed addition supported on footings placed on properly compacted structural fill to be impacted by the nearby watercourse.

It is our opinion that Criterion B can also be met through best management practices during construction, including the proper use of a silt fence, minimizing earthwork activities during periods heavy precipitation, minimizing exposed areas in the wet season, and other appropriate temporary erosion control measures.

Mr. Troy Werelius
8452 North Mercer Way, Mercer Island, WA
July 26, 2019

We trust that the information outlined in this letter meets your need at this time. Please call if you have any questions.

Sincerely,



Yi-Hsun William Chao, P.E.
Senior Project Geotechnical Engineer

A handwritten signature in black ink, appearing to read "Siew L. Tan".

Siew L. Tan, P.E.
Principal Geotechnical Engineer