



# Group Northwest, Inc.

Geotechnical Engineers, Geologists  
& Environmental Specialists

January 5, 2018

G-3837

Mr. William Summers  
MI Treehouse LLC  
P.O. Box 261  
Medina, WA 98039  
Email: [bill@summersdevelopment.com](mailto:bill@summersdevelopment.com)

**Subject:** Pipe Pile Installation Time and Noise  
Proposed Residence  
5637 East Mercer Way, Mercer Island, WA 98040

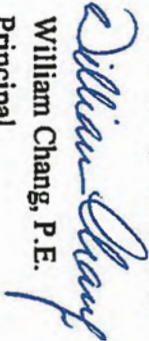
**Reference:** GEO Group Northwest, Inc. Geotechnical Engineering Report  
Report dated 3/13/2015, G3837 for the Proposed Residence

**Dear Mr. Summers:**

At your request, we are presenting our geotechnical evaluation to address the time and the noise impacts of the proposed pipe pile installation at the proposed residence.

At the present time we do not have a final design, however, based on our experience on similar projects we anticipate that the house will be supported on 4 inch diameter pipe piles driven by a 1,100 pound pneumatic hammer such as a Teledyne model TB425 or equivalent. The noise generated by the pile driving equipment is similar to that of a pneumatic jackhammer, with rapid percussions to advance the pile into the ground.

Accordingly, we also anticipate that up to 80 pipe piles will be installed, and the time frame to install the pipe piles will be from 5 to 10 working days, depending on the efficiency of the contractor.

Sincerely,  
GEO Group Northwest, Inc.  
  
William Chang, P.E.  
Principal

