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Date: July 14, 2022

To: Anthony Benore

Gemstone Homes LLC 1304 Green Oaks Parkway Holly Springs, NC 27540

anthony@gemstonehomesnc.com

919-756-1506

Re: Soil Suitability for Foundation Installation

Location: Lot 37 Purfoy Place - 337 Lambert Ln. (Fuquay-Varina, NC)

JDS Project No.: RDU2207085 Date of Inspection: 07/13/2022 Foundation Type: Crawl Space Additional Features: Rear Deck

## **Observations**

Foundation excavation observation (sub-surface testing with respect to bearing capacity).

## Recommendations

The exposed soils have been observed and tested for adequate bearing capacity (Probe and DCP). Based on our testing and review, the soil and conditions for the foundation are suitable for the minimum required bearing pressure of 2000 psf.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 919-218-4421.

Respectfully Submitted, Samantha Lux Field Operations Manager

> Reviewing Engineer: Qiao Ping Wang, PE

## **Project Notes**

This report is an assessment of vertical bearing capacity only. Minimum testing requirements include probe rod testing across the entire excavation and augers (minimum three locations) at multiple depths with Dynamic Cone Penetrometer (DCP) testing. Bearing capacity test results are voided if significant precipitation or water intrusion has occurred before concrete placement. JDS Consulting is not responsible for site conditions that divert water towards the foundation or that prevents drainage away from the foundation, which can lead to soft soils and future settlement problems. It is the contractor's responsibility to ensure that all foundation areas are free of organics, loose material, standing water, and any other deleterious materials prior to placement of stone or concrete. Retaining wall stability nor slope stability analysis has been evaluated. JDS Consulting shall not be held responsible for current or future retaining-wall or slope-related issues.