

H & H Homes  
2919 Breezewood Avenue  
Suite 400  
Fayetteville, NC 28303

03/10/2021

Attention : Eric Baxley  
Tim Adams

**RE:** Daily Field Report for 03/09/2021  
Lot 173 Anderson Creek Crossing ACX (CMT) Spring Lake, NC  
Building & Earth Project No : RD210167

Ladies and Gentlemen:

On this date, representative(s) of Building & Earth were present to perform construction material testing services at this project site. Our testing and observations for this date include the following:

**FO-1** : Field Observations made on this date.

- Foundation Inspection
- Project Management Review

Passed  
Passed

## Closing

**The testing and observations identified above have been reviewed by our project manager. If you have questions regarding this information, please do not hesitate to contact us.**

Respectfully Submitted,  
Building & Earth Sciences, LLP

**Enclosures** : FO-1



*Rachael Heath*

Reviewed By

## Field Observations Report

Project Name:	<b>Lot 173 Anderson Creek Crossing ACX (CMT) Spring Lake, NC</b>	Project Number:	<b>RD210167</b>
Client Name:	<b>H &amp; H Homes</b>	Placement#:	<b>FO-1</b>
Contractor:	<b>H &amp; H Homes</b>	Technician:	<b>Frank Hamlin</b>
Monitoring:	<b>Shallow Footing Testing</b>		

### 1 : Foundation Inspection

Passed

We arrived onsite to evaluate the building pad area for this residential lot. We understand the residence has been designed to be supported on a monolithic slab foundation. Upon arrival, the contractor had not finished excavating the footings. Our evaluation as documented in this report includes:

- 1) A visual description of the residential lot
- 2) Comments on any improvements that hat affect the foundations of the residence
- 3) Hand rod probing of the footing excavations
- 4) Performing Dynamic Cone Penetration (DCP) tests at representative locations
- 5) Soil Density tests on fill, if applicable.

#### Visual Description of the Lot:

The site slopes downward from left to right and front to back. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 3 feet. Surface water runoff appears to drained the rear of property.

#### Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 6 inches of topsoil has been removed from the building pad area.

Structural fill has not been placed at the site to level the building pad. Based on our observations, we understand the pad has been (cut or filled) according to the following:

Section-----	Thickness of Fill
Left Front-----	0 inches of fill
Left Rear-----	0 inches of fill
Center-----	0 inches of fill
Right Front-----	0 inches of fill
Right Rear-----	0 inches of fill

#### Measurements:

- 1) How far is the nearest slope from the edge of the foundation? 20 feet

#### Future Footing Tests

Hand Rod Probing: Our representative performed hand rod probing of the surface of the building pad. Hand rod probing of the bearing material generally showed an average penetration of approximately 1 inch.

DCP Testing: Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at four representative locations to a depth of 36 inches. Our representative did not observe water within the DCP boreholes as noted below.

The following information provides the results of our hand auger borings and DCP testing:

Test 1: [Front Left Corner]

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-- Depth---"N"-----Soil Color---USCS-----  
--- FSG --- 13 --- Greyish tan --- SM -----  
--- -1' --- 15+ --- Light Tan --- SM -----  
--- -2' --- 15+ --- Light tan --- SC ----  
--- -3' --- 15+ --- Light tan --- SC ----

Test 2: [Back Right Corner]

-- Depth---"N"-----Soil Color---USCS-----  
--- FSG --- 12 --- Dark Brown -- SM -----  
--- -1' --- 15+ --- Light Tan --- SM -----  
--- -2' --- 15+ --- Orange ----- SC ----  
--- -3' --- 15+ --- Orange ----- SC ----

Soil Density Testing:

Soil density testing was not performed because the lot was in a cut.

Results:

Based on our observations and test results, the existing soils appear to be suitable to provide support for the floor slab and footings, provided the floor slab has a loading of less than 150 pounds per square foot, and the footings have a design bearing capacity of 2,000, or less.

### 2 : Project Management Review

Passed

Our client has authorized Building & Earth Sciences to perform an evaluation of the prepared building pad for this project. The structure will have a monolithic foundation. It appears that no structural fill soils have been placed to achieve the slab grade.


Our evaluation included hand rod probing the entire area for consistency and performing hand auger borings with DCPs. Based upon our hand rod probing, the surface soils are firm and resistant to penetration. At selected locations, hand auger borings were advanced at 2 locations. At 12-inch increments in the hand auger boring, to a depth of 3 feet, Dynamic Cone Penetrometer (DCP) Testing was performed in accordance with ASTM STP-399. Based upon our testing, the soils below the surface have a bearing capacity of 2,000 psf at the locations tested.

Note: inclement weather (rain or snow), as well as construction traffic across the pad, can compromise the stability and support characteristics of the surface soils. If the surface soils become compromised, it will be necessary to return to the site for re-testing. This decision should be executed by your onsite Quality Control and Superintendents.

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Monitoring: <b>Shallow Footing Testing</b>	


### Photographs

Picture ID	Hand Auger
27194	 <p style="text-align: center; background-color: #008080; color: white; padding: 5px;">Hand auger front left corner</p>

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### Photographs

Picture ID	LOT 173
27196	

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### Photographs

Picture ID	DCP
27195	

*Rachael Heath*

Reviewed By