Tulmark, LLC.
Geotechnical & Environmental Services
"We Investigate Underground Soil & Water Conditions for Engineering & Environmental Purposes"
Tulmark.com

P.O. Box 12, Leonardo, N.J., 07737
(732) 291-5030

Moss Architecture, LLC.
1103 & 1103 ½ Beach Ave.
Bradley Beach, NJ

May 14, 2024

Re: 1103 & 1103 ½ Beach Ave., Badley Beach, NJ, Depth to Seasonal High Groundwater Table.

Dear Mr. Moss:
On 5/15/2024 Tulmark, LLC completed one soil borings to a depth of 100 inches below ground surface in order to determine depth to the seasonal high groundwater table.

Soil Boring Location	Depth Groundwater Table Inches	Depth Groundwater Table Stabilized Inches	Depth Inches Seasonal High Groundwater Table "Soil Mottling"	Total Depth of Soil Boring Inches	Date of Soil Boring
B-1	**100 Inches**	**97 Inches**	**93 Inches**	**100 Inches**	**5/14/2024**

The groundwater table fluctuates in elevation throughout the year. Groundwater is normally at a higher elevation during the winter and spring months. During the late summer and fall the groundwater table recedes to al lower elevation. The groundwater table can fluctuate as much as 3 feet throughout the year.

Soil mottling (color streaking or blotching in the soil sample) is an indication of the seasonal high groundwater tables highest point or elevation throughout the year. This report is nontransferable. This report is valid for 6 months.

If you have any questions, please call Tulmark, LLC. at: (732) 291-5030.

Sincerely,
John C. Tully

AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS
AIPG
John C. Tully
#2768
Professional Geologist

Professional Geologist

"Impressing our clients one job at a time!"

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Soil Boring Log

Boring Location: **B-1**
Site Name: **Moss Architecture, LLC**
Site Address: **1103 & 1103 ½ Beach Ave.**
Site City: **Bardley Beach**
Site State: **New Jersey**
Site Block: **10**
Site Lot: **16 & 17**
Sample Type: **Auger**
Drilling Rig Type: **Hand Auger**
Total Depth of Soil Boring: **100 Inches/8 Feet, 4 Inches**
Depth to Groundwater Table: **97 Inches/8 Feet 1 Inch**
Depth to Seasonal High Groundwater Table: **93 Inches/7 Feet 9 Inches**
Date: **5/14/2024**

Depth Inches	Color	Soil Type	Texture Class	Unified Soil Classification System	Structure	Depth Ground Water Inches	Mottling Depth Inches & DSHWT
0 - 10	Gray	Topsoil	Loamy Sand	SM	Rounded	Dry	None
10-30	Lt. Brown	Sand	Loamy Sand	SM	Rounded	Dry	None
30-50	Red Brown	Sand	Sand	SP	Rounded	Dry	None
50-93	Lt. Brown	Sand	Sand	SP	Rounded	Moist	93"
93-100	Lt. Brown	Sand	Sand	SP	Rounded	Saturated	93"

DSHWT = Depth to Seasonal High-Water Table
N/E = Not Encountered

UNIFIED SOIL CLASSIFICATION SYSTEM

Name			Group Symbols	LABORATORY CRITERIA			
				Fines (%)	Grading	Plasticity	Notes
coarse grained (more than 50% **larger** than 63 µm BS or No.200 US sieve size (0.074 mm))	**Gravels** (more than 50% of coarse fraction of gravel size)	Well graded gravels, with little or no fines	GW	0-5	$C_u>4$ $1<C_c<3$		Dual symbols if 5-12% fines. Dual symbols if above A-line and 4<PI<7
		Poorly graded gravels, sandy gravels, with little or no fines	GP	0-5	Not satisfying GW requirements		
		Silty gravels, silty sandy gravels	GM	>12		Below A-line ***or*** PI<4	
		Clayey gravels, clayey sandy gravels	GC	>12		Above A-line ***and*** PI>7	
	Sands (more than 50% of coarse fraction of sand size)	Well graded sands, gravelly sands, with little or no fines	SW	0-5	$C_u>6$ $1<C_c<3$		*Reminder* $C_u=\frac{D_{60}}{D_{10}}$ $C_c=\frac{D_{30}{}^2}{D_{10}*D_{60}}$ *PI=LL-PL*
		Poorly graded sands, gravelly sands, with little or no fines	SP	0-5	Not satisfying SW requirements		
		Silty sands	SM	>12		Below A-line ***or*** PI<4	
		Clayey sands	SC	>12		Above A-line ***and*** PI>7	

Name			Group Symbols	LABORATORY CRITERIA
fine grained (more than 50% **smaller** than 63 µm BS or No.200 US sieve size (0.074 mm))	**Silts and Clays** (liquid limit less than 50)	Inorganic **silts**, silty or clayey fine sands, with slight plasticity	ML	Use plasticity chart
		Inorganic **clays**, silty clays, sandy clays of low plasticity	CL	Use plasticity chart
		Organic **silts** and organic silty clays of low plasticity	OL	Use plasticity chart
	Silts and Clays (liquid limit greater than 50)	Inorganic **silts** of high plasticity	MH	Use plasticity chart
		Inorganic **clays** of high plasticity	CH	Use plasticity chart
		Organic **clays** of high plasiticty	OH	Use plasticity chart
Highly organic soils		Peat and other highly organic soils	Pt	Use plasticity chart