



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.
106 Park Avenue Place
Bradley Beach, NJ

May 14, 2024

Re: 106 Park Avenue Place, 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	92 Inches	100 Inches	5/14/2024

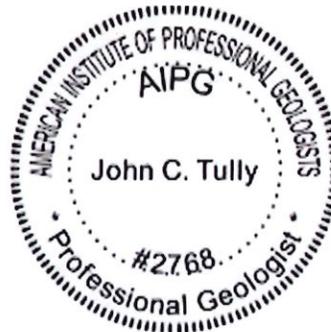
The groundwater table fluctuates in elevation throughout the year. Groundwater is normally at a higher elevation during the winter and spring months. During the late summer and fall the groundwater table recedes to al lower elevation. The groundwater table can fluctuate as much as 3 feet throughout the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

Professional Geologist





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Soil Boring Log

Boring Location: B-1
 Site Name: Moss Architecture, LLC
 Site Address: 106 Park Avenue Place
 Site City: Bardley Beach
 Site State: New Jersey
 Site Block: 14
 Site Lot: 26
 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: 92 Inches/7 Feet 8 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 - 16	Brown	Topsoil	Loamy Sand	SM	Rounded	Dry	None
16-40	Lt. Gray	Sand	Sand	SP	Rounded	Dry	None
40-48	Dark Gray	Sand	Sand	SP	Rounded	Dry	None
48-58	Black	Sand	Sand	SM	Rounded	Dry	None
58-72	Dark Gray	Sand	Sand	SM	Rounded	Moist	None
72-88	Brown	Sand	Sand	SP	Rounded	Moist	None
88-92	Brown	Sand	Sand	SP	Rounded	Moist	Mottled Soil
92-100	Brown	Sand	Sand	SP	Rounded	Saturated	Mottled Soil

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 <i>or</i> $PI < 4$		
		Clayey gravels, clayey sandy gravels	GC	>12		Above A-line <i>and</i> $PI > 7$		
	Sands (more than 50% of coarse fraction of sand size)	Well graded sands, gravelly sands, with little or no fines	SW	0-5	$C_u > 6$ $1 < C_c < 3$		<i>Reminder</i> $C_u = \frac{D_{60}}{D_{10}}$ $C_c = \frac{D_{30}^2}{D_{10} \cdot D_{60}}$ $PI = LL - PL$	
		Poorly graded sands, gravelly sands, with little or no fines	SP	0-5	Not satisfying SW requirements			
		Silty sands	SM	>12		Below A-line <i>or</i> $PI < 4$		
		Clayey sands	SC	>12		Above A-line <i>and</i> $PI > 7$		
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 plasticity	OH	Use plasticity chart				
Highly organic soils		Peat and other highly organic soils	Pt	Use plasticity chart				