



BROOKSIDE LABORATORIES, INC.
GEOTECHNICAL DIVISION
200 WHITE MOUNTAIN DRIVE
NEW BREMEN, OH 45869

**** PHYSICAL ANALYSIS REPORT ****

Freestone Club
Fairfield, TX

File Number: 91984

Date Received/Started : 11/21/2024
Date Completed/Reported: 12/9/2024
Date Issued: 12/9/2024

Submitted By: Soil and Water Consulting

Lab Number	3174
Sample Description	HOLSEY CAPPING MATERIAL (11-24)
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM D5550
ASTM F1632
ASTM F1647 - Method A
ASTM F1815

D Values

** D10: 0.16
** D60: 0.31
** Coefficient of Uniformity: 1.91

*Reported values are an average of duplicated analysis

** NON A2LA ACCREDITED
* *This report may only be reproduced in its entirety.*
* *These results represent the sample submitted only.*



Geotechnical
(Putting Green Materials)
Certificate Number: 736.01

CAPPING CHARACTERISTICS

Freestone Club
Fairfield, TX

File Number : 91984
** Date of Analysis **
Start Date : 11/21/2024
Completed : 12/9/2024

Submitted By: Soil and Water Consulting Reviewed by:

Lab Number 3174
Sample Description HOLSEY
CAPPING
MATERIAL (11-24)

Particle Size Analysis

Clay	<.002mm	%	0.4
Silt	.002mm - .05mm	%	0.8
Sand	.05mm - 2.00mm	%	97.1
Gravel	> 2.0mm	%	1.7

Org Mat 360 deg C (LOI) < 0.10

Sand Fractions

Sieve Size		% Retained
#	mm	
10 -	2.0	Fine Gravel 1.7
18 -	1.0	Very Coarse Sand 0.4
35 -	.500	Coarse Sand 0.9
60 -	.250	Medium Sand 48.9
100 -	.150	Fine Sand 43.7
140 -	.106	Very Fine Sand 2.9
270 -	.053	Very Fine Sand 0.3

Soil Moisture Measurements

Saturated Conductivity in/hr 30.4

Soil Density

Bulk Density	g/cc	1.63
Particle Density	g/cc	2.65

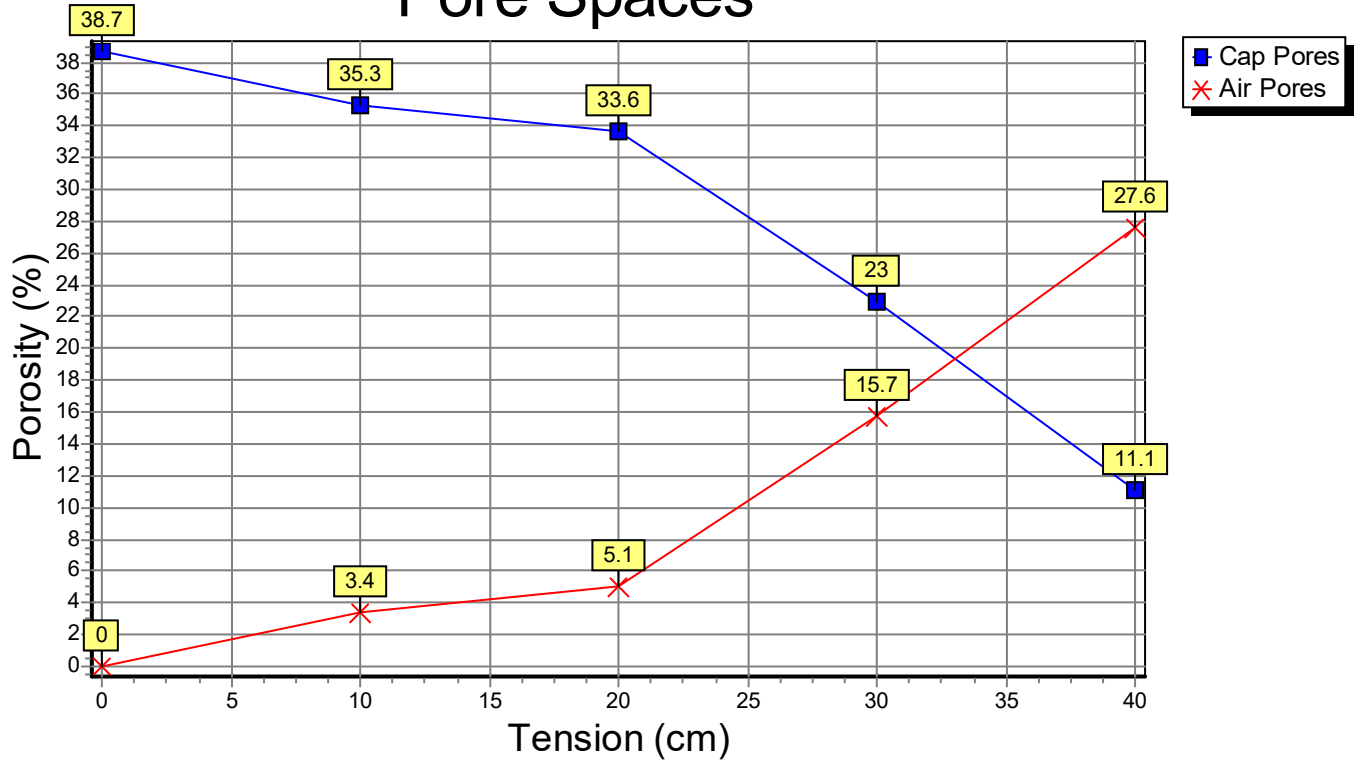
MOISTURE RETENTION %**PORE SPACE %**

		TOTAL	CAPILLARY	AIR FILLED
SATURATION	22.0	38.7	38.7	0.0
10 CM	21.7	38.7	35.3	3.4
20 CM	20.7	38.7	33.6	5.1
30 CM	14.2	38.7	23.0	15.7
40 CM	6.8	38.7	11.1	27.6

File Number: 91984
 Client Name: Freestone Club
 Submitted By: Soil and Water Consulting
 Start Date: 11/21/2024
 Completed: 12/9/2024

Lab Number: 3174
 Sample Description: HOLSEY
 CAPPING
 MATERIAL(11-24)

Pore Spaces



Moisture Retention

