



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

**** PHYSICAL ANALYSIS REPORT ****

Braemar Country Club
4001 Reseda Blvd
Tarzana, CA 91356

File Number: 76278

Date Received/Started : 6/12/2023
Date Completed/Reported: 6/19/2023
Date Issued: 6/19/2023

Submitted By: Soil and Water Consulting

Lab Number	1400
Sample Description	WCS+G 90/10 GREENS MIX
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM D5550
ASTM F1632
ASTM F1647 - Method A
ASTM F1815

D Values

** D10: 0.21
** D60: 0.62
** Coefficient of Uniformity: 3.04

*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

Braemar Country Club
4001 Reseda Blvd
Tarzana, CA 91356

File Number : 76278
** Date of Analysis **
Start Date : 6/12/2023
Completed : 6/19/2023

Submitted By: Soil and Water Consulting Reviewed by:

Lab Number 1400
Sample Description WCS+G 90/10
GREENS
MIX

Particle Size Analysis

Clay	<.002mm	%	0.8
Silt	.002mm - .05mm	%	1.6
Sand	.05mm - 2.00mm	%	97.6
Gravel	> 2.0mm	%	0.0

Org Mat 360 deg C (LOI) 0.75

Sand Fractions

Sieve Size		% Retained
#	mm	
10 -	2.0	Fine Gravel 0.0
18 -	1.0	Very Coarse Sand 6.7
35 -	.500	Coarse Sand 44.2
60 -	.250	Medium Sand 35.1
100 -	.150	Fine Sand 8.9
140 -	.106	Very Fine Sand 1.9
270 -	.053	Very Fine Sand 0.8

Soil Moisture Measurements

Saturated Conductivity in/hr 5.7

Soil Density

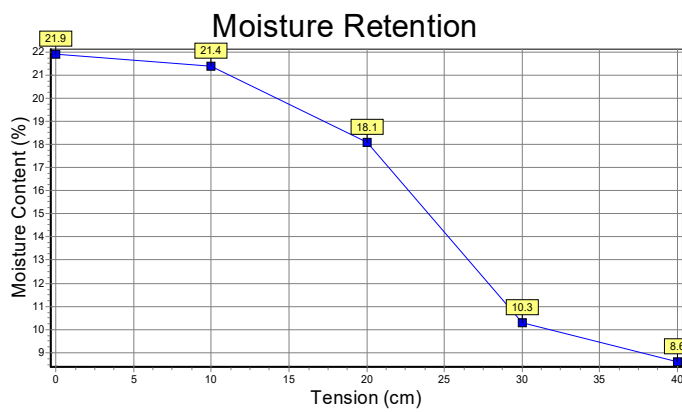
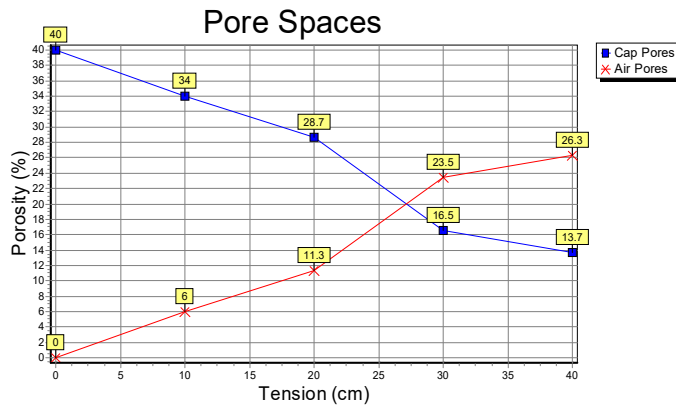
Bulk Density	g/cc	1.59
Particle Density	g/cc	2.65

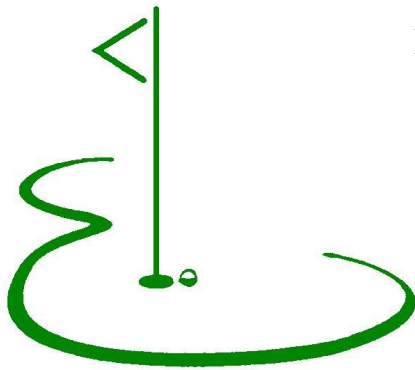
MOISTURE RETENTION %**PORE SPACE %**

		TOTAL	CAPILLARY	AIR FILLED
SATURATION	21.9	40.0	40.0	0.0
10 CM	21.4	40.0	34.0	6.0
20 CM	18.1	40.0	28.7	11.3
30 CM	10.3	40.0	16.5	23.5
40 CM	8.6	40.0	13.7	26.3

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 GREENS
 MIX





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Date Received/Started : 6/12/2023
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Submitted By: Soil and Water Consulting

Lab Number	1402
Sample Description	TEE CAPPING MATERIAL
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM D5550
ASTM F1632
ASTM F1647 - Method A
ASTM F1815

D Values

** D10: 0.21
** D60: 0.63
** Coefficient of Uniformity: 3.03

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CAPPING CHARACTERISTICS

Braemar Country Club
4001 Reseda Blvd
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File Number : 76278
** Date of Analysis **
Start Date : 6/12/2023
Completed : 6/19/2023

Submitted By: Soil and Water Consulting Reviewed by:

Lab Number 1402
Sample Description TEE CAPPING
MATERIAL

Particle Size Analysis

Clay	<.002mm	%	0.8
Silt	.002mm - .05mm	%	1.1
Sand	.05mm - 2.00mm	%	98.1
Gravel	> 2.0mm	%	0.0

Org Mat 360 deg C (LOI) 0.20

Sand Fractions

Sieve Size		% Retained
#	mm	
10 -	2.0	Fine Gravel 0.0
18 -	1.0	Very Coarse Sand 7.3
35 -	.500	Coarse Sand 44.6
60 -	.250	Medium Sand 34.6
100 -	.150	Fine Sand 8.5
140 -	.106	Very Fine Sand 2.3
270 -	.053	Very Fine Sand 0.8

Soil Moisture Measurements

Saturated Conductivity in/hr 52.9

Soil Density

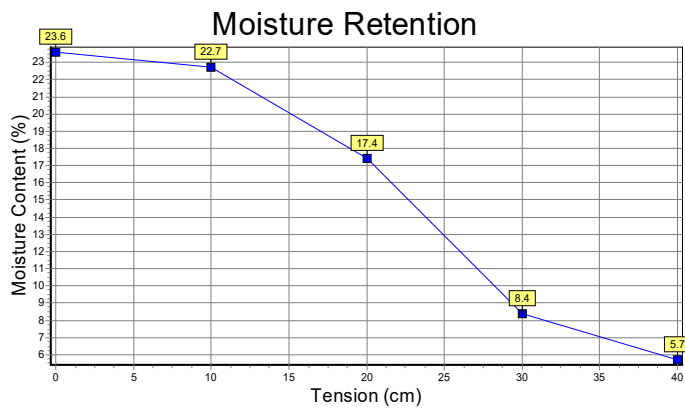
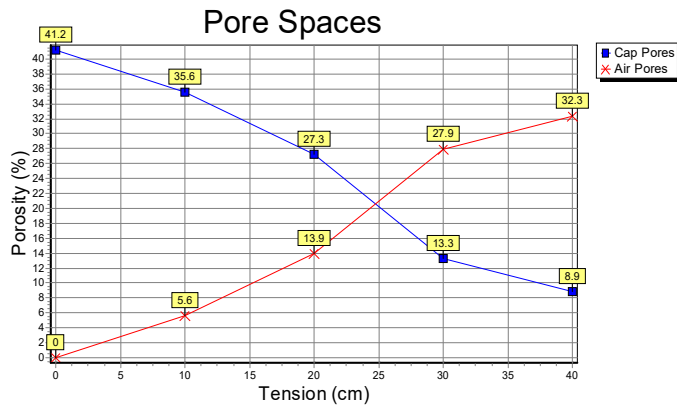
Bulk Density	g/cc	1.57
Particle Density	g/cc	2.67

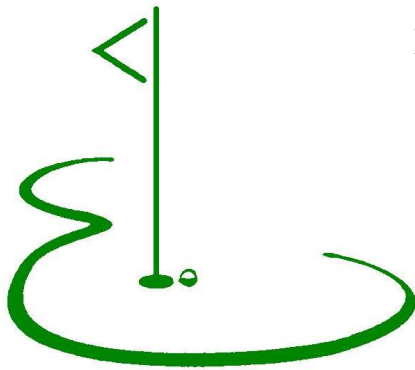
MOISTURE RETENTION %**PORE SPACE %**

		TOTAL	CAPILLARY	AIR FILLED
SATURATION	23.6	41.2	41.2	0.0
10 CM	22.7	41.2	35.6	5.6
20 CM	17.4	41.2	27.3	13.9
30 CM	8.4	41.2	13.3	27.9
40 CM	5.7	41.2	8.9	32.3

File Number: 76278
 Client Name: Braemar Country Club
 Submitted By: Soil and Water Consulting
 Start Date: 6/12/2023
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Lab Number: 1402
 Sample Description: TEE CAPPING
 MATERIAL





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Submitted By: Soil and Water Consulting

Lab Number	1404
Sample Description	WCS+G 50/50 BUNKER
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM D5550
ASTM F1632
ASTM F1647 - Method A
ASTM F1815

D Values

** D10: 0.22
** D60: 0.61
** Coefficient of Uniformity: 2.80

*Reported values are an average of duplicated analysis
*SAME AS LAB #1403

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CAPPING CHARACTERISTICS

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File Number : 76278
** Date of Analysis **
Start Date : 6/12/2023
Completed : 6/19/2023

Submitted By: Soil and Water Consulting Reviewed by:

Lab Number 1404
Sample Description WCS+G 50/50
BUNKER

Particle Size Analysis

Clay	<.002mm	%	0.8
Silt	.002mm - .05mm	%	1.4
Sand	.05mm - 2.00mm	%	97.5
Gravel	> 2.0mm	%	0.3

Org Mat 360 deg C (LOI) 0.15

Sand Fractions

Sieve Size		% Retained
#	mm	
10 -	2.0	Fine Gravel 0.3
18 -	1.0	Very Coarse Sand 7.9
35 -	.500	Coarse Sand 41.2
60 -	.250	Medium Sand 38.2
100 -	.150	Fine Sand 7.8
140 -	.106	Very Fine Sand 1.5
270 -	.053	Very Fine Sand 0.9

Soil Moisture Measurements

Saturated Conductivity in/hr 51.4

Soil Density

Bulk Density	g/cc	1.59
Particle Density	g/cc	2.70

MOISTURE RETENTION %**PORE SPACE %**

		TOTAL	CAPILLARY	AIR FILLED
SATURATION	22.3	41.1	41.1	0.0
10 CM	21.8	41.1	34.7	6.4
20 CM	15.8	41.1	25.1	16.0
30 CM	7.0	41.1	11.1	30.0
40 CM	4.8	41.1	7.7	33.5

File Number: 76278
 Client Name: Braemar Country Club
 Submitted By: Soil and Water Consulting
 Start Date: 6/12/2023
 Completed: 6/19/2023

Lab Number: 1404
 Sample Description: WCS+G 50/50
 BUNKER

