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

** PHYSICAL ANALYSIS REPORT **

Downingtown Country Club
93 Country Club Road
Downingtown, PA 19335

File Number: 74198

Date Received/Started : 2/8/2016
Date Completed/Reported: 2/12/2016

Submitted By: Soil and Water Consulting

Lab Number				0147
Sample Description				DAMP 35 SAND DAKOTA 80/20
Sample Condition	XX	Normal	___	Other (see comments)

Method References

ASTM D5550	0.16
ASTM F1632	0.38
ASTM F1647 – Method A	
ASTM F1815	

*Reported values are an average of duplicated analysis
*Lab Mix (80% DAMP 35 SAND:20% DAKOTA PEAT)

ACCREDITED
Geotechnical
(Putting Green Materials)
Certificate Number: 736.01

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

CAPPING CHARACTERISTICS

Downingtown Country Club
93 Country Club Road
Downingtown, PA 19335

File Number : 74198
** Date of Analysis **
Start Date : 2/8/2016
Completed : 2/12/2016

Submitted By: Soil and Water Consulting Reviewed by: Jackie Brackman

Lab Number	0147
Sample Description	DAMP 35 SAND DAKOTA 80/20

Particle Size Analysis

Clay <.002mm	%	0.3
Silt .002mm - .05mm	%	1.8
Sand .05mm - 2.00mm	%	97.2
Gravel > 2.0mm	%	0.7

Org Mat 360 deg C (LOI)	1.85

Sand Fractions

Sieve Size #	mm		% Retained
10 -	2.0	Fine Gravel	0.7
18 -	1.0	Very Coarse Sand	2.2
35 -	.500	Coarse Sand	13.2
60 -	.250	Medium Sand	51.2
100 -	.150	Fine Sand	26.2
140 -	.106	Very Fine Sand	4.0
270 -	.053	Very Fine Sand	0.4

Soil Moisture Measurements

Saturated Conductivity in/hr	7.3

Soil Density

Bulk Density	g/cc	1.43
Particle Density	g/cc	2.61

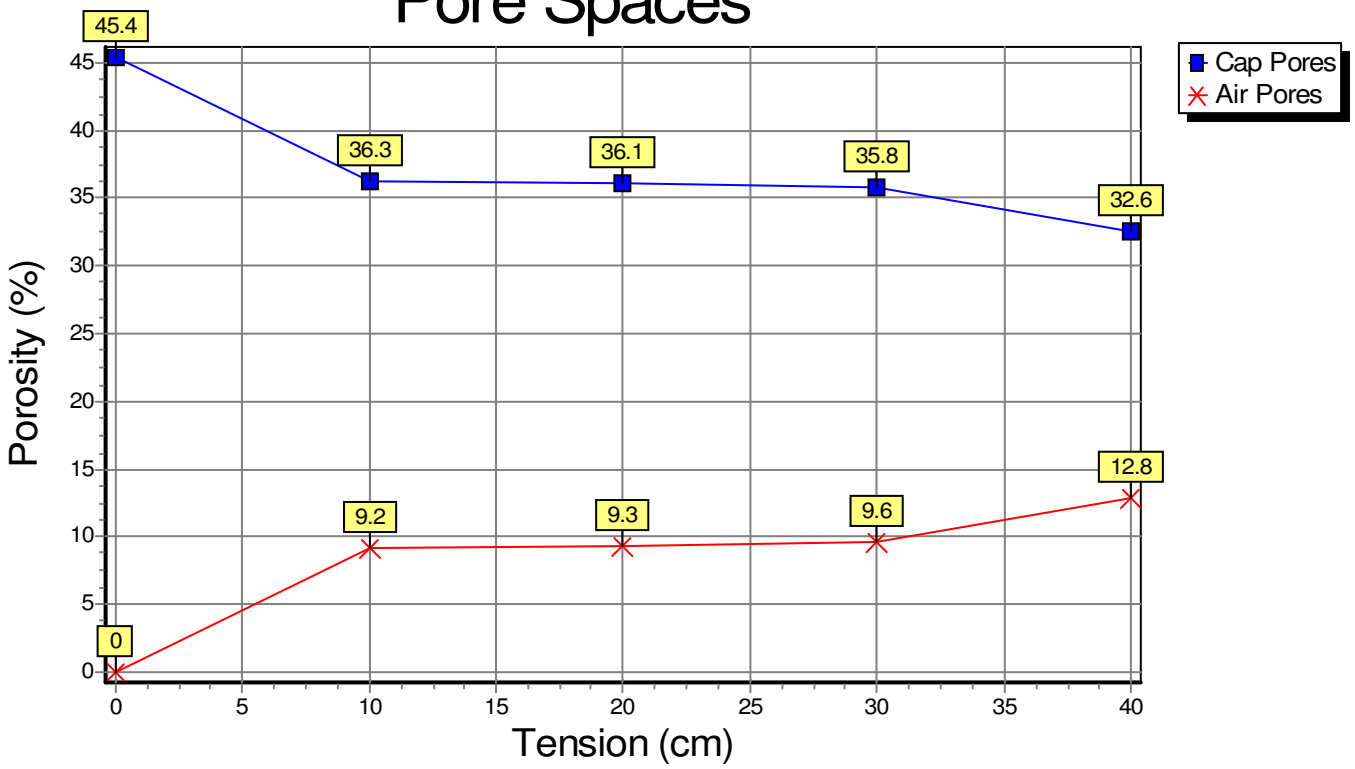
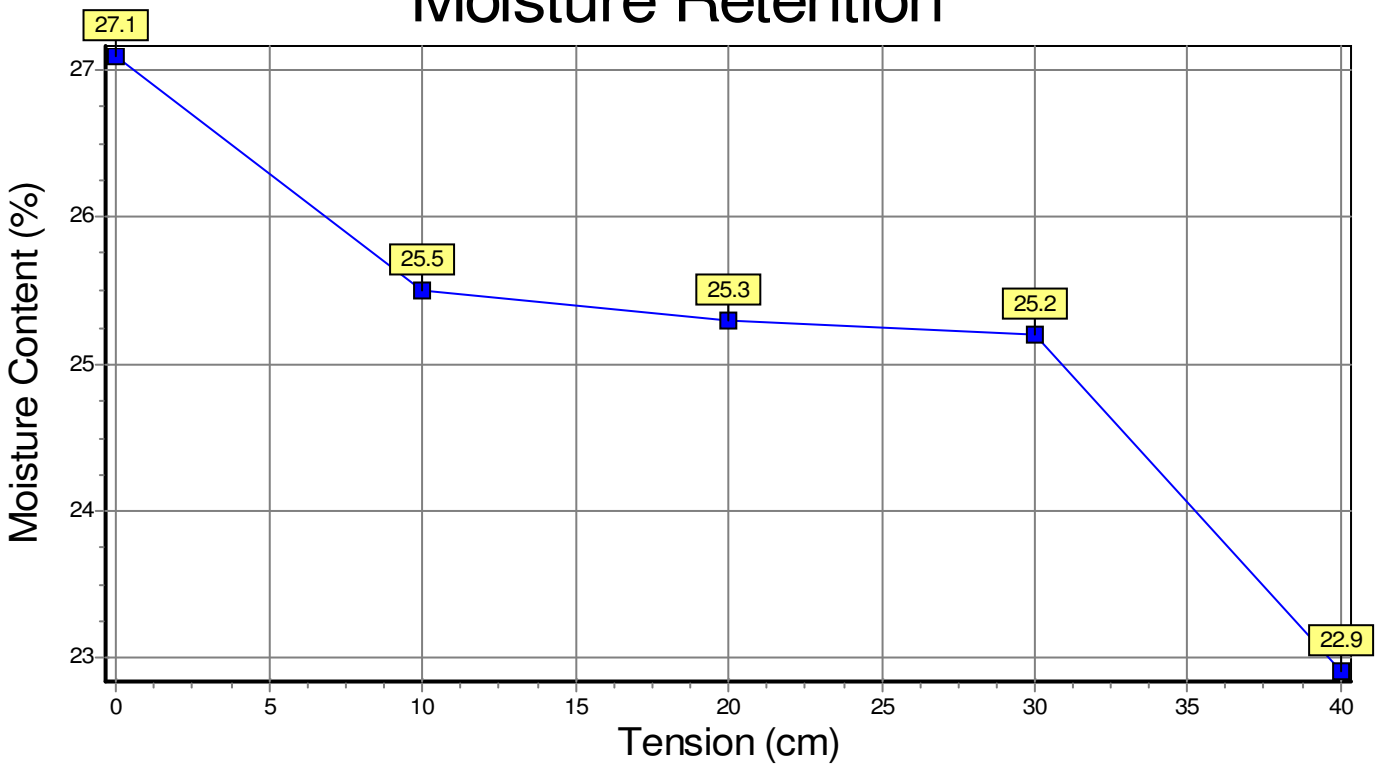
*MOISTURE RETENTION %

*PORE SPACE %

		TOTAL	CAPILLARY	AIR FILLED
SATURATION	27.1	45.4	45.4	0.0
10 CM	25.5	45.4	36.3	9.2
20 CM	25.3	45.4	36.1	9.3
30 CM	25.2	45.4	35.8	9.6
40 CM	22.9	45.4	32.6	12.8

File Number:	74198	Lab Number:	0147
Client Name:	Downingtown Country Club	Sample Description:	DAMP 35 SAND
Submitted By:	Soil and Water Consulting		DAKOTA
Start Date:	2/8/2016		80/20
Completed:	2/12/2016		

Pore Spaces



Moisture Retention