



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

**** PHYSICAL ANALYSIS REPORT ****

Silver Lakes Sports Complex

File Number: 76665

Date Received/Started : 9/16/2016

Date Completed/Reported: 9/22/2016

Submitted By: Soil and Water Consulting

Lab Number	1699
Sample Description	ORIGINAL
	FIELD
	MIX
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM D5550	0.13
ASTM F1632	0.90
ASTM F1647 - Method A	
ASTM F1815	

*Reported values are an average of duplicated analysis

** This report may only be reproduced in its entirety.*

** These results represent the sample submitted only.*



CAPPING CHARACTERISTICS

Silver Lakes Sports Complex

File Number : 76665

** Date of Analysis **

Start Date : 9/16/2016

Completed : 9/22/2016

Submitted By: Soil and Water Consulting Reviewed by:

Jackie Brackman

Lab Number 1699
 Sample Description ORIGINAL
 FIELD
 MIX

Particle Size Analysis**USGA Specs**

Clay	<.002mm	%	0.4	<= 3.0%
Silt	.002mm - .05mm	%	3.8	<= 5.0%
Sand	.05mm - 2.00mm	%	88.0	
Gravel	> 2.0mm	%	7.8	

Org Mat 360 deg C (LOI)	0.25
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Sand Fractions

Sieve Size		% Retained	
#	mm		
10 -	2.0	Fine Gravel	7.8
18 -	1.0	Very Coarse Sand	27.1
35 -	.500	Coarse Sand	25.8
60 -	.250	Medium Sand	19.1
100 -	.150	Fine Sand	8.0
140 -	.106	Very Fine Sand	4.4
270 -	.053	Very Fine Sand	3.6

2.0mm	<= 3.0%
2.0mm + 1.0mm	<= 10%
0.5mm + 0.25mm	>= 60%
0.15mm	<= 20%
0.106mm + 0.053mm	<= 5.0%

Soil Moisture Measurements

Saturated Conductivity in/hr	28.6
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Soil Density

Bulk Density	g/cc	1.67
Particle Density	g/cc	2.71

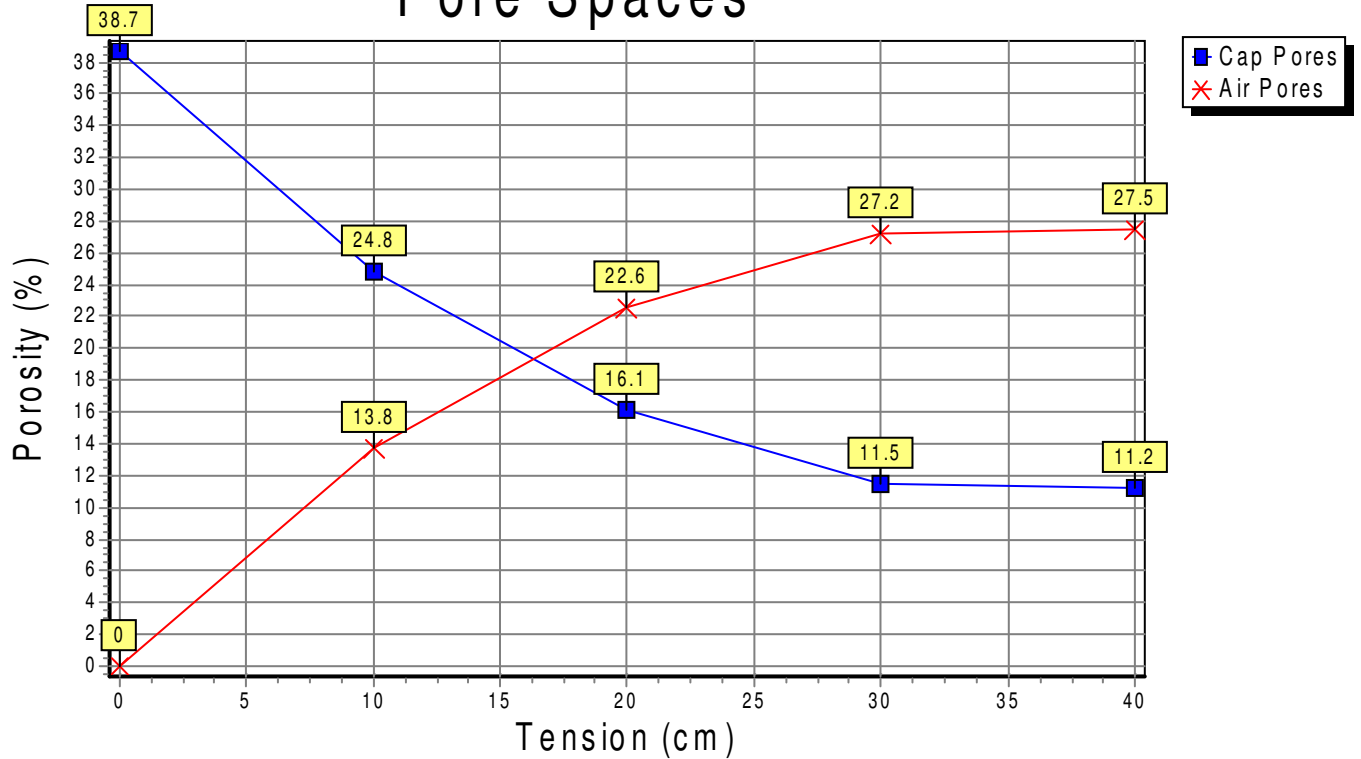
MOISTURE RETENTION %**PORE SPACE %**

		TOTAL	CAPILLARY	AIR FILLED
SATURATION	19.6	38.7	38.7	0.0
10 CM	14.9	38.7	24.8	13.8
20 CM	9.7	38.7	16.1	22.6
30 CM	6.9	38.7	11.5	27.2
40 CM	6.7	38.7	11.2	27.5

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Pore Spaces



Moisture Retention

