



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

**** PHYSICAL ANALYSIS REPORT ****

Tucson Country Club
2950 N. Camino Principal
Tucson, AZ 85715

File Number: 34998

Date Received/Started : 1/17/2018
Date Completed/Reported: 1/22/2018

Submitted By: Soil and Water Consulting

Lab Number	0001
Sample Description	GREEN
	5
	0"-3"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.15
** D60: 0.50
** Coefficient of Uniformity: 3.35

** NON A2LA ACCREDITED
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Lab Number	0001
Sample Description	GREEN
	5
	0"-3"

Particle Size Analysis

Clay	<.002mm	%	2.20
Silt	.002mm - .05mm	%	2.70
Sand	.05mm - 2.00mm	%	95.1
Gravel	> 2.0mm	%	0.0

Org Mat 360 deg C (LOI)	1.25
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Sand Fractions

Sieve Size			<u>% Retained</u>
#	mm		
10 -	2.0	Fine Gravel	0.0
18 -	1.0	Very Coarse Sand	6.9
35 -	.500	Coarse Sand	32.7
60 -	.250	Medium Sand	38.7
100 -	.150	Fine Sand	11.4
140 -	.106	Very Fine Sand	3.7
270 -	.053	Very Fine Sand	1.5



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Lab Number	0002
Sample Description	GREEN
	5
	BELOW-3"
Sample Condition	<u>XX</u> Normal <u> </u> Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.18
** D60: 0.56
** Coefficient of Uniformity: 3.10

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Submitted By: Soil and Water Consulting

Lab Number 0002
Sample Description GREEN
5
BELOW-3"

Particle Size Analysis

Clay	<.002mm	%	1.20
Silt	.002mm - .05mm	%	1.60
Sand	.05mm - 2.00mm	%	96.9
Gravel	> 2.0mm	%	0.3

Org Mat 360 deg C (LOI) 0.34

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.3
18 - 1.0	Very Coarse Sand	6.9
35 - .500	Coarse Sand	37.5
60 - .250	Medium Sand	38.4
100 - .150	Fine Sand	10.1
140 - .106	Very Fine Sand	2.9
270 - .053	Very Fine Sand	1.1



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Lab Number	0003
Sample Description	GREEN
	13
	0"-3"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.13
** D60: 0.49
** Coefficient of Uniformity: 3.62

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Lab Number	0003
Sample Description	GREEN
	13
	0"-3"

Particle Size Analysis

Clay	<.002mm	%	2.20
Silt	.002mm - .05mm	%	3.80
Sand	.05mm - 2.00mm	%	93.8
Gravel	> 2.0mm	%	0.2

Org Mat 360 deg C (LOI)	1.48
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Sand Fractions

Sieve Size			<u>% Retained</u>
#	mm		
10 -	2.0	Fine Gravel	0.2
18 -	1.0	Very Coarse Sand	6.6
35 -	.500	Coarse Sand	31.4
60 -	.250	Medium Sand	37.7
100 -	.150	Fine Sand	12.9
140 -	.106	Very Fine Sand	3.5
270 -	.053	Very Fine Sand	1.7



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Submitted By: Soil and Water Consulting

Lab Number	0004
Sample Description	GREEN
	13
	BELOW-3"
Sample Condition	<u>XX</u> Normal <u> </u> Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.18
** D60: 0.52
** Coefficient of Uniformity: 2.93

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Lab Number 0004
Sample Description GREEN
13
BELOW-3"

Particle Size Analysis

Clay	<.002mm	%	1.20
Silt	.002mm - .05mm	%	2.10
Sand	.05mm - 2.00mm	%	96.6
Gravel	> 2.0mm	%	0.1

Org Mat 360 deg C (LOI) 0.48

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.1
18 - 1.0	Very Coarse Sand	5.0
35 - .500	Coarse Sand	36.4
60 - .250	Medium Sand	40.8
100 - .150	Fine Sand	10.7
140 - .106	Very Fine Sand	2.7
270 - .053	Very Fine Sand	1.1



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Submitted By: Soil and Water Consulting

Lab Number	0005
Sample Description	GREEN
	18
	0"-3.5"
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.12
** D60: 0.49
** Coefficient of Uniformity: 4.11

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Start Date : 1/17/2018
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Submitted By: Soil and Water Consulting

Lab Number	0005
Sample Description	GREEN
	18
	0"-3.5"

Particle Size Analysis

Clay	<.002mm	%	2.10
Silt	.002mm - .05mm	%	5.40
Sand	.05mm - 2.00mm	%	92.4
Gravel	> 2.0mm	%	0.1

Org Mat 360 deg C (LOI)	1.50
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Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.1
18 - 1.0	Very Coarse Sand	6.5
35 - .500	Coarse Sand	31.7
60 - .250	Medium Sand	37.4
100 - .150	Fine Sand	12.1
140 - .106	Very Fine Sand	3.1
270 - .053	Very Fine Sand	1.6



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Lab Number	0006
Sample Description	GREEN
	18
	BELOW-3.
Sample Condition	<u>XX</u> Normal ___ Other (see comments)

Method References

ASTM F1632
ASTM F1647 - Method A

D Values

** D10: 0.17
** D60: 0.51
** Coefficient of Uniformity: 3.07

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Lab Number 0006
Sample Description GREEN
18
BELOW-3.

Particle Size Analysis

Clay	<.002mm	%	2.20
Silt	.002mm - .05mm	%	1.90
Sand	.05mm - 2.00mm	%	95.9
Gravel	> 2.0mm	%	0.0

Org Mat 360 deg C (LOI) 0.40

Sand Fractions

Sieve Size		% Retained
#	mm	
10 - 2.0	Fine Gravel	0.0
18 - 1.0	Very Coarse Sand	5.7
35 - .500	Coarse Sand	35.2
60 - .250	Medium Sand	40.2
100 - .150	Fine Sand	10.7
140 - .106	Very Fine Sand	2.8
270 - .053	Very Fine Sand	1.3