STRI

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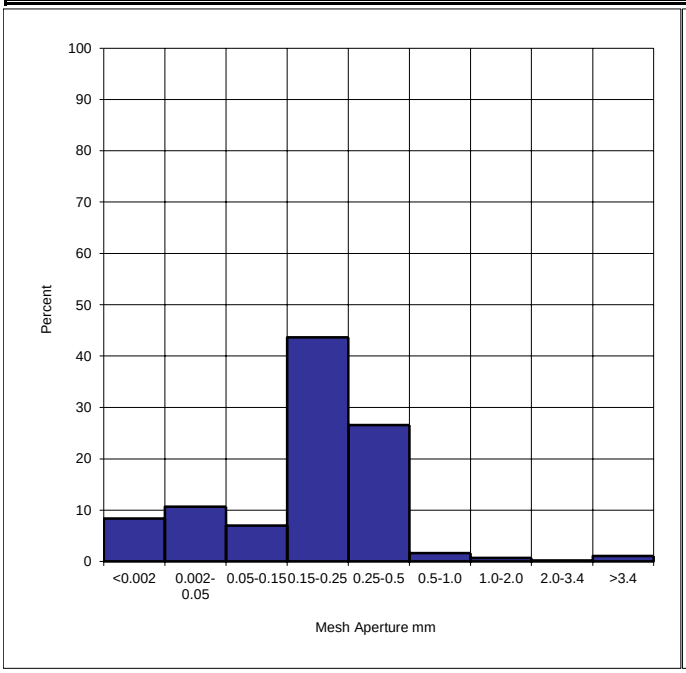
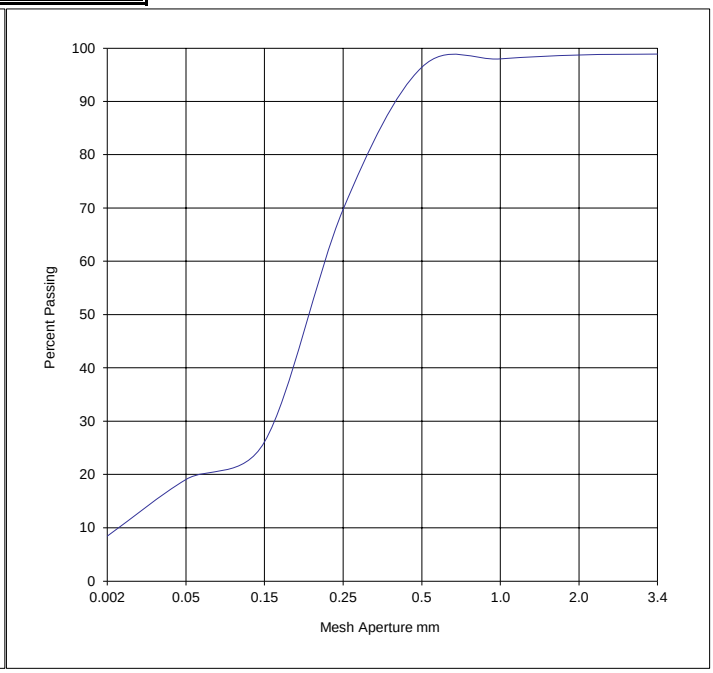
PARTICLE SIZE ANALYSIS USING USGA METHOD*

CLIENT:	BRITISH SUGAR TOPSOIL	RESULTS TO:	MAB
		SAMPLE NO:	A19446/2
ADDRESS:	1 SAMSON PLACE, LONDON ROAD,	DATE RECEIVED:	21/01/2022
	HAMPTON, PETERBOROUGH, PE7 8QJ	DATE REPORTED:	31/01/2022
SAMPLE DESCRIPTION:	SPORTS 10	TEST RESULTS AUTHORISED BY:	
CONDITION OF SAMPLE UPON ARRIVAL:	MOIST	Michael Baines, Laboratory Manager	

Category	Diameter mm	%	Diameter mm	% Passing
Stones + C. gravel	>3.4	1.1	3.4	98.9
Fine gravel	3.4-2.0	0.2	2.0	98.7
Very coarse sand	2.0-1.0	0.7	1.0	98.0
Coarse sand	1.0-0.5	1.6	0.5	96.4
Medium sand	0.5-0.25	26.6	0.25	69.8
Fine sand	0.25-0.15	43.7	0.15	26.1
Very fine sand	0.15-0.05	7.0	0.05	19.1
Silt	0.05-0.002	10.7	0.002	8.4
Clay	<0.002	8.4		





Loss on ignition**	%	1.81	Lime content (as $CaCO_3$)***	%	/

Qualitative Assessment of Particle Shape*:	MEDIUM SPHERICITY / SUB ROUNDED

THESE RESULTS PERTAIN ONLY TO THE SAMPLE(S) SUBMITTED AND TESTED

*ASTM F1632-03 (2018)Standard Test Method for Particle Size Analysis and Sand Shape of Golf Course Putting Green and Sports Field Rootzone Mixes

* ASTM F1647-11 (2018)Standard Test Methods for Organic Matter Content of Athletic Field Rootzone Mixes (Method A)

*** Lime content is not part of the scope of the A2LA accreditation

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Testing Certificate 2159 - 01

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PHYSICAL CHARACTERISTICS OF COMPACTED ROOTZONE MATERIALS TESTED TO USGA PROCEDURE*

CLIENT: BRITISH SUGAR TOPSOIL	RESULTS TO: MAB
	SAMPLE NO: A19446/2
ADDRESS: 1 SAMSON PLACE, LONDON ROAD,	DATE RECEIVED: 21/01/22
HAMPTON, PETERBOROUGH, PE7 8QJ	DATE REPORTED: 21/01/22
DESCRIPTION: SPORTS 10	TEST RESULTS AUTHORIZED BY:
CONDITION UPON ARRIVAL: MOIST	Michael Baines, Laboratory Manager

			USGA Guidelines	UK Golf Guidelines
	Saturated Hydraulic Conductivity (mm/hr)	1	Minimum 150 mm/hr	≥150 mm/hr
	Total Porosity (%)	39.2	35-55 %	≥35%
At 30 cm Tension	Air-filled Porosity (%)	4.7	15-30 %	≥14%
At 30 cm Tension	Capillary Porosity (%)	34.4	15-25 %	≥17%
	Bulk Density (g/cc)	1.62		
	Particle Density (g/cc)	2.66		
	Organic Matter Content (%)**	1.81		0.5-3.5%

THESE RESULTS PERTAIN ONLY TO THE SAMPLE(S) SUBMITTED AND TESTED

* ASTM F1815-11 (2018) Standard Test Methods for Saturated Hydraulic Conductivity, Water Retention, Porosity and Bulk Density for Putting Green and Sports Turf Rootzones.

** ASTM F1647-11 (2018) Standard Test Methods for Organic Matter Content of Athletic Field Rootzone Mixes (Method A)

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