



BIORETENTION FILTER LAYERS

MATERIAL
NOT TO SCALE

1. pH 6.0 - 7.0
2. SALT (ppm) < 500
3. PARTICLE SIZE (% RETAINED)

Fine Gravel (>2mm)	0
Very Coarse Sand (1mm)	< 10
Coarse Sand (0.5mm)	20-30
Medium Sand (0.25mm)	40-75
Fine Sand (0.106mm)	< 30
Very Fine Sand (0.053mm)	< 15
Silt & Clay (<0.053mm)	< 5

NOTE: Combined % RETAINED OF COURSE, MEDIUM AND FINE SAND SHALL EXCEED 75%

4. HYDRAULIC CONDUCTIVITY (mm/hr) 300 - 400
THE HYDRAULIC CONDUCTIVITY IS TO BE MEASURED USING A SATURATED HYDRAULIC CONDUCTIVITY TEST.
THE pH OF THE TURF SAND IS TO BE AMENDED PRIOR TO DELIVERY TO BE WITHIN THE RANGE OF pH 6.0 - 7.0
ALL MATERIALS ARE TO BE TESTED AND APPROVED BY AN APPROVED LABORATORY, PRIOR TO DELIVERY

FILTER SAND SPECIFICATION

1. SPECIFICATION SHOWN IS BASED ON RECOMMENDATIONS WITHIN "REVIEW OF STREETScape WSUD IN MELBOURNE" BY Dr NICHOLAS SOMES AND MATTHEW POTTER, 2007" AND ARE SUBJECT TO CHANGE OVER TIME GIVEN FURTHER INVESTIGATION OF THESE SYSTEMS.

CITY OF CASEY

FILTER MATERIAL
WSUD STANDARD ELEMENT

MANAGER OF ENGINEERING &
ENVIRONMENTAL SERVICES

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AMENDMENTS: