



The B Horizon Mix performs well as a lower profile substrate in contained environments, below the Lightweight Planter Box Mix. It has been developed to work as the stable drainage media layer of an engineered profile. It provides enough nutrition for continued root growth while creating a stable substrate for long term volume.

The B Horizon Mix is compared to Leake and Haege (2024) Specification E2: On-Slab Soil Media B - Horizon. We use the standards as a tool and environmental compliant testing. Scapeworks Australia engages 'The Urban Soil Doctor' to undertake in-situ sample collection at the Scapeworks site.

Test Results:

February 2026

Physical Properties	Unit	Target Range	Results
Texture	n/a	Loamy Sand - Sandy Loam	Loamy Sand
Air-Filled Porosity	%	10 - 20	24.1
Water-Holding Capacity	%	40 - 50	37.3
Permeability (@16 Drops)	mm/hr	> 100	1497
Organic Matter	% w/w	15 - 20	13.3
Water Repellence	Seconds	< 60	13
Chemical Properties	Unit	Target Range	Results
pH in water (1:1:5)	pH units	5.4 - 6.8	6.73
Electrical Conductivity	dS/m	< 2.2	2.32
Chloride	mg/ L	≤ 200	281
Ammonium-N (NH ₄)	mg/ L	≤ 100	2.38
Ammonium-N + Nitrate-N (NH ₄ + NO ₃)	mg/ L	50 - 100	81
Nitrogen Draw-Down Index	-	≥ 0.7	0.23
Toxicity Index	mm	≥ 70	67
Phosphorus - P standard range	mg/ L	8 - 40	19
Low Phosphorus - P-Sensitive plant	mg/ L	< 3	19
Potassium (K)	mg/ L	50 - 250	270
Sulphate (SO ₄)	mg/ L	≥ 40	129
Calcium (Ca)	mg/ L	≥ 80	180
Magnesium (Mg)	mg/ L	≥ 15	49.6
Ca:Mg Ratio	Ratio	1.5 - 10	3.63
K:Mg Ratio	Ratio	1 - 7	5.45
Sodium (Na)	mg/ L	≤ 130	137
Iron (Fe)	mg/ L	≥ 35	33.5
Copper (Cu)	mg/ L	0.4 - 15	0.55
Zinc (Zn)	mg/ L	0.3 - 10	4.08
Manganese (Mn)	mg/L	1-15	7.37
Boron (B)	mg/L	0.02-0.65	0.4
Additional Testing	Units	Target Range	Results
Saturated Density	kg/L	1.8 - 2.4	1.2
Dry Bulk Density	Kg/L	No Requirement	0.65
Asbestos		Not Detected	No Detected

Polarized Light Microscope and dispersion staining method.



Scapeworks B Horizon tests as Grade A soil for unrestricted use. The Urban Soil Doctor (TUSD) was requested by Scapeworks Australia to conduct in-situ sample collection at Scapeworks Australia's yard, also oversees, analyses and reports on products collected.
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