



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 (2014) 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:

November 2024

| Physical Properties   |            | Unit     | Target Range            | Results      |
|---|------------|----------|-------------------------|--------------|
| Texture   |            | n/a      | Loamy Sand - Sandy Loam | Loamy Sand   |
| Air-Filled Porosity   |            | %        | ≥ 10                    | 11.2         |
| Water-Holding Capacity  |            | %        | ≥ 40                    | 47.9         |
| Permeability (@16 Drops)  |            | mm/hr    | > 100                   | 4,330        |
| Organic Matter  |            | % w/w    | < 5                     | 12.3         |
| Wettability (AS4419)  |            | min      | ≤ 5                     | 1m 8s        |
| Dispersibility  |            | Category | 1 or 2                  | 2            |
| Large<br>Particle<br>s  | < 2 mm     | % ww     | 30 - 70                 | -            |
|   | 2 - 10 mm  |          | 10 - 20                 | 41.5         |
|   | 10 - 20 mm |          | 5 - 10                  |              |
|   | 20 - 50 mm |          | < 5                     |              |
|   | > 50 mm    |          | 0                       | 1.71         |
| Chemical Properties   |            | Unit     | Target Range            | Results      |
| pH in water (1:1:5)   |            | pH units | 5.4 - 6.8               | 7.2          |
| Electrical Conductivity   |            | dS/m     | < 2.2                   | 1.3          |
| Chloride  |            | mg/ L    | ≤ 200                   | 190          |
| Ammonium-N (NH4)  |            | mg/ L    | ≤ 100                   | .5           |
| Ammonium-N + Nitrate-N (NH4 + NO3)  |            | mg/ L    | ≥ 50                    | 1.2          |
| Nitrogen Draw-Down Index  |            | -        | ≥ 0.7                   | 0.0          |
| Bioassay  |            | mg/ L    | ≥ 70                    | 105          |
| Phosphorus  |            | mg/ L    | 8 - 40                  | 11.2         |
| Low Phosphorus - P-Sensitive plant  |            | mg/ L    | < 3                     | 11.2         |
| Potassium   |            | mg/ L    | 5 - 250                 | 204          |
| Sulphate (SO4)  |            | mg/ L    | > 40                    | 54.7         |
| Calcium (Ca)  |            | mg/ L    | ≥ 80                    | 138          |
| Magnesium (Mg)  |            | mg/ L    | ≥ 15                    | 32.1         |
| Ca:Mg Ratio   |            | Ratio    | 1.5 - 10                | 4.3          |
| K:Mg Ratio  |            | Ratio    | 1 - 7                   | 6.4          |
| Sodium (Na)   |            | mg/ L    | ≤ 130                   | 95           |
| Iron (Fe)   |            | mg/ L    | ≥ 35                    | 33.1         |
| Copper (Cu)   |            | mg/ L    | 0.4 - 15                | 0.4          |
| Zinc (Zn)   |            | mg/ L    | 0.3 - 10                | 2.97         |
| Manganese (Mn)  |            | mg/L     | 1-15                    | 3.97         |
| Boron (B)   |            | mg/L     | 0.02-0.65               | 0.2          |
| Additional Testing  |            | Units    | Target Range            | Results      |
| Saturated Density   |            | kg/L     | < 2.4                   | 1.2          |
| Dry Bulk Density  |            | Kg/L     | No Requirement          | 0.54         |
| Asbestos<br><small>Polarized Light Microscope and dispersion staining method.</small> |            |          | Not Detected            | Not Detected |



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. [Chantal Milner](#), CPSS Principal Soil Scientist BSc Env Sci, PGCert Green Infrastructure, CPSS