

Table 6–5. Linear loading rates

| Soil characteristics | | | Linear loading rates (litres/metre/day) ¹ | | | | | | | | |
|----------------------|---------------------------------|------------------------------|--|---------|-----|-------|-------|-----|-------|-------|-----|
| | | | Slope | | | | | | | | |
| | | | <5% | | | 5-10% | | | >10% | | |
| Soil category | Soil texture | Structure | Depth of natural, unsaturated soil (cm) | | | | | | | | |
| | | | 20 - 30 | 31 - 60 | >61 | 20-30 | 31-60 | >61 | 20-30 | 31-60 | >61 |
| 1 | Gravels and medium-coarse sands | Structureless | 50 | 62 | 75 | 62 | 75 | 87 | 75 | 87 | 99 |
| | Fine sand and loamy sand | Structureless | 43 | 56 | 68 | 50 | 62 | 75 | 62 | 75 | 87 |
| 2 | Sandy loams | Weakly structured | 43 | 56 | 68 | 50 | 62 | 75 | 62 | 75 | 87 |
| | | Massive | 37 | 43 | 50 | 45 | 51 | 57 | 62 | 75 | 87 |
| 3 | Loams | High/ moderate structured | 41 | 47 | 53 | 45 | 51 | 57 | 48 | 55 | 61 |
| | | Weakly structured or Massive | 25 | 29 | 32 | 30 | 34 | 37 | 34 | 40 | 46 |
| 4 | Clay loams | High/ moderate structured | 30 | 36 | 42 | 34 | 37 | 41 | 37 | 43 | 50 |
| | | Weakly structured | 25 | 31 | 37 | 27 | 34 | 40 | 30 | 36 | 42 |
| | | Massive | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5 | Light clays | Strongly structured | 25 | 31 | 37 | 27 | 34 | 40 | 30 | 36 | 42 |
| | | Moderately structured | 25 | 31 | 37 | 27 | 34 | 40 | 30 | 36 | 42 |
| | | Weakly structured or Massive | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 6 | Medium to heavy clays | Strongly structured | 25 | 31 | 37 | 27 | 34 | 40 | 30 | 36 | 42 |
| | | Moderately structured | 25 | 31 | 37 | 27 | 34 | 40 | 30 | 36 | 42 |
| | | Weakly structured or Massive | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

NOTES:

1. Adapted from Designing and Installing On-site Wastewater Management Systems from WaterNSW (2023a) and based on Hydraulic Wastewater Loading Rates to Soil Tyler (2001).

