

**Table 1: Potential Zone of Influence 3B Wallis Road**

| Tree No. | Species                     | Water Demand NHBC | Mature Height (m) | Actual Height (m) | Mature Height Zone of Influence (m) | Distance from Building (m) | Current Height Zone of Influence (m) | Proposed Maximum Height (m) | Zone of Influence at Maximum Proposed Height (m) |
|----------|-----------------------------|-------------------|-------------------|-------------------|-------------------------------------|----------------------------|--------------------------------------|-----------------------------|--------------------------------------------------|
| T.1      | Corkscrew Willow            | High              | 16                | 6.5               | 20                                  | 18                         | 8.125                                |                             |                                                  |
| T.2      | Horse Chestnut              | Moderate          | 20                | 16                | 15                                  | 21                         | 12                                   |                             |                                                  |
| T.3      | English Oak                 | High              | 20                | 16                | 25                                  | 18                         | 20                                   | 14                          | 17.5                                             |
| T.4      | Apple                       | Moderate          | 10                | 6                 | 7.5                                 | 7                          | 4.5                                  |                             |                                                  |
| T.5      | Horse Chestnut              | Moderate          | 20                | 10                | 15                                  | 12                         | 7.5                                  |                             |                                                  |
| T.6      | Lilac                       | Moderate          | 8                 | 4                 | 6                                   | 7                          | 3                                    |                             |                                                  |
| G1       | Mixed                       | Moderate          | 8                 | 2                 | 6                                   | 0                          | 1.5                                  | Remove                      |                                                  |
| G2       | mixed                       | Moderate          | 8                 | 2                 | 6                                   | 0                          | 1.5                                  | Remove                      |                                                  |
| H1       | Mixed conifer and deciduous | Moderate to high  | 18                | 2                 | 22.5                                | 11                         | 2.5                                  |                             |                                                  |
| H2       | Deciduous hedge             | Moderate          | 8                 | 2                 | 6                                   | 2                          | 1.5                                  |                             |                                                  |

**Table 2: Potential Zone of Influence 11 Wallis Gardens**

| Tree No. | Species                     | Water Demand NHBC | Mature Height (m) | Actual Height (m) | Mature Height Zone of Influence (m) | Distance from Building (m) | Current Height Zone of Influence (m) | Proposed Maximum Height (m) | Zone of Influence at Maximum Proposed Height (m) |
|----------|-----------------------------|-------------------|-------------------|-------------------|-------------------------------------|----------------------------|--------------------------------------|-----------------------------|--------------------------------------------------|
| T.1      | Corkscrew Willow            | High              | 16                | 6.5               | 20                                  | 7                          | 8.125                                | 5                           | 6.25                                             |
| T.2      | Horse Chestnut              | Moderate          | 20                | 16                | 15                                  | 11                         | 12                                   | 14                          | 10.5                                             |
| T.3      | English Oak                 | High              | 20                | 16                | 25                                  | 18                         | 20                                   | 14                          | 17.5                                             |
| T.4      | Apple                       | Moderate          | 10                | 6                 | 7.5                                 | 5.5                        | 4.5                                  |                             |                                                  |
| T.5      | Horse Chestnut              | Moderate          | 20                | 10                | 15                                  | 16                         | 7.5                                  |                             |                                                  |
| T.6      | Lilac                       | Moderate          | 8                 | 3                 | 6                                   | 11                         | 2.25                                 |                             |                                                  |
| G1       | Mixed                       | Moderate          | 8                 | 2                 | 6                                   | 6                          | 1.5                                  |                             |                                                  |
| G2       | Mixed                       | Moderate          | 8                 | 2                 | 6                                   | 10                         | 1.5                                  |                             |                                                  |
| H1       | Mixed conifer and deciduous | Moderate to high  | 18                | 2                 | 22.5                                | 10                         | 2.5                                  |                             |                                                  |
| H2       | Deciduous hedge             | Moderate          | 8                 | 2                 | 6                                   | 2                          | 1.5                                  |                             |                                                  |

- 5.25 When considering a tree management regime intended to limit a tree's water requirement, it is important to understand, in basic terms, tree biology. Transpiration is the process through which trees lose water, primarily through their leaves. Trees take up water through their roots and along with it, a range of essential nutrients. Via a network of vessels these nutrients and water are transported to the primary sites of organic synthesis, the leaves. In the leaves, in the presence of sunlight and using carbon dioxide from the air and using a very small percentage of the transported water the primary building block of the tree,