Ocean Drive Evans Head Revegetation Plan 2015











Executive Summary

EnviTE Environment was contracted by Richmond Valley Council (RVC) to develop a revegetation plan for the Ocean Drive bank stabilisation at Evans Head. This revegetation plan is designed to guide the rehabilitation of the Crown reserve running between the Evans River and Ocean Drive. Littoral rainforest, Callitris Pines and Koala habitat trees were removed as part of major erosion control works associated with this bank stabilisation.

Revegetation will replace plants that were removed during the reconstruction of the riverbank, further stabilising the area from erosion by promoting replacement of Littoral rainforest, Coastal Cypress and other native vegetation communities, improving habitat for threatened species and the general amenity of the area.

Revegetation will include 34 different native plant species totaling 3349 individuals. The majority of plants will be ground covers such as *Lomandra* longifolia (2051) and *Crinum pedunculatum* (511) with changes to the construction design the total could be increased by 5% ~125 plants. A mix of 32 different native coastal tree and shrub species will make up the remainder of the revegetation with 797 individuals. The site has been broken into 17 zones with 69 subzones of which ~0.4 Ha will be revegetated. The planting will occur in stages, initially planting zones 1 to 7 and a follow-up second stage planting zones 8 to 14.

This Revegetation Plan includes consideration of on-going management and maintenance regimes, as well as detailed species selection, density, placement and numbers. This plan has been prepared with a maintenance timeframe of five years.

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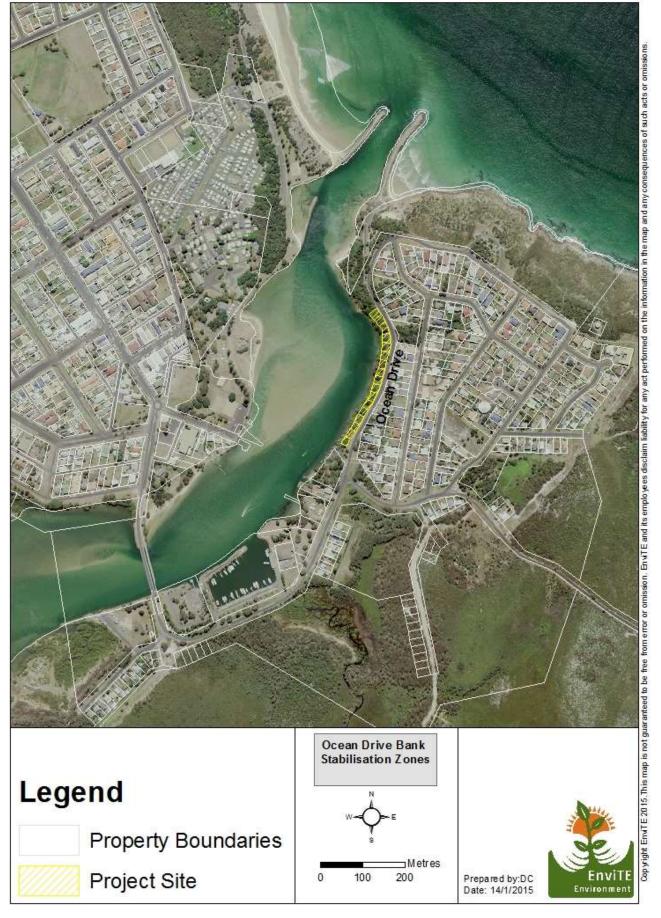


Figure 1: Locality Map Ocean Drive Revegetation Project



Figure 2: Project site work zones

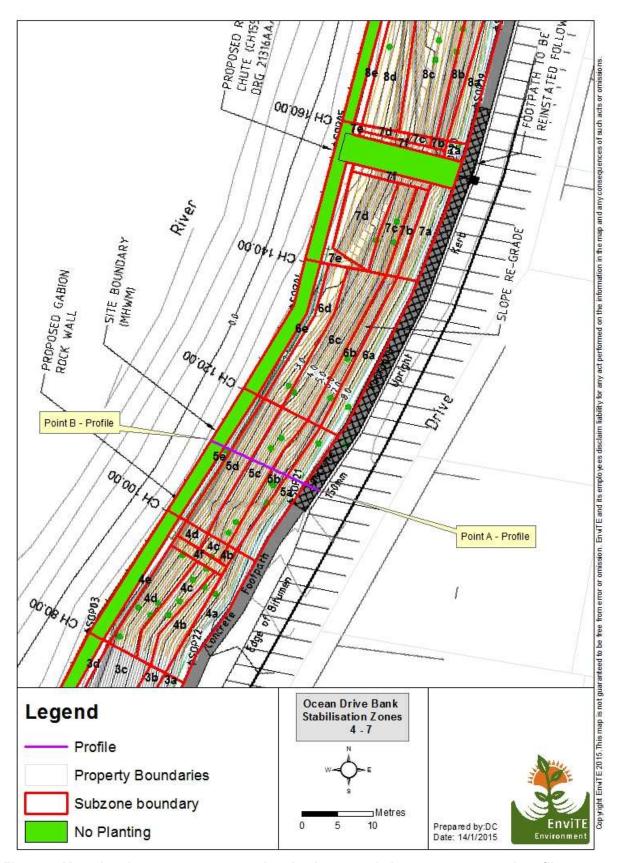


Figure 3. Map showing zones 4 - 7, associated subzones, chainage, contours and profile cross section A – B shown in Figure 4. Note green dots previous mapped locations of trees >200mm DBH

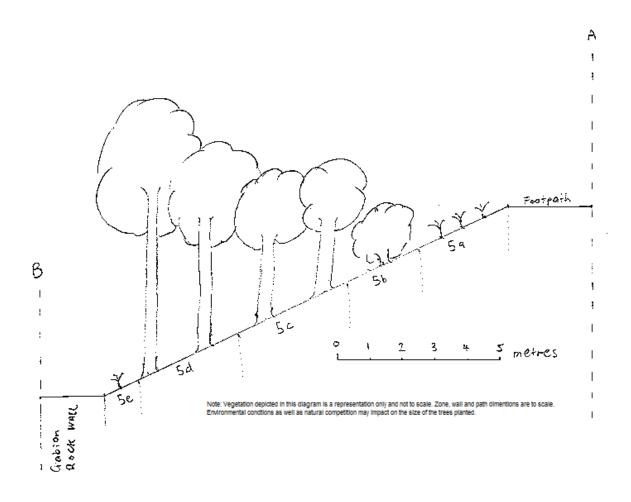


Figure 4. Cross section A - B showing location of native plants within subzones 5a - 5d

2.1 Site Access

The site can be accessed from the western end of the site beside Kalimna Park Reserve. As the work site is located beside Ocean Drive traffic control will be required to undertake the revegetation. Current control measures such as stop go lights with barriers to close the northern lane would be recommended.

The site is very steep with gabion walls elevated as high as 3 metres above the river bank below. Movement around the site should evaluated carefully through hazard and risk assessment procedures.

3. Plant selection

Endemic littoral rainforest, Coastal Callitris, and wet sclerophyll species will be used in this planting as recommended in **Appendix 1**.

To ensure the protection and conservation of the genetic diversity of nearby areas it is recommended that only plants with local provenance sourced from local nurseries should be used. **Appendix 1** provides a recommended planting species list. To achieve this aim, plants should be selected to replicate the vegetation communities naturally occurring on site such as Littoral Rainforest, Callitris and Wet schlerophyll. A graphical representation can be seen in **Figure 6**.

During previous survey undertaken by EnviTE Environment all trees with a DBH of 200mm or greater were mapped and recorded across the site. Through this process the dominant native canopy trees and associated vegetation communities have been documented. A table representing this data can be found in **Table 1**. This data has been used to guide species mixes across the work area so the revegetation of the site will match vegetation communities found on the site prior to disturbance.

It is recommended a small % of the planting be made of semi advanced stock for aesthetics and assist with sheltering other young plants. It is recommended that all 25 *Banksia aemula* planted on the upper banks are semi advanced as well as 15 Littoral Rainforest trees such as Tuckeroo (*Cupaniopsis anarcardiodes*) and others throughout the middle slopes. It is also recommended that semi advanced stock are in pots no larger than 15L to ensure that extensive excavation or staking is not required.

Due to the limited time available to source trees it is recommended that species numbers are used as a guide and if one species is not able to be sourced others of similar type (Littoral rainforest / Wet Sclerophyll forest) should replace it.

Changes to the construction plan have occurred since the initial planning of the erosion control works and as a result areas for planting have changed slightly. This has mainly occurred in response to changes in the pedestrian path location. Further changes may occur as construction continues to adapt to on-ground conditions and constraints. For this reason it should be noted that planting numbers associated with the upper bank and upper edge could increase by up to 5% (i.e. ~ 125 plants comprised mainly of *Lomandra* and *Crinum* lily).

Table 1. Dominance of native trees >200mm DBH located onsite (EnviTE Environment 2013)

| Scientific Name | Common Name | Number Recorded | % of Total |
|------------------------------------|------------------------|--------------------|---------------|
| Acacia disparrima | Hickory Wattle | 19 | 6.8% |
| Alphitonia excelsa | Red Ash | 3 | 1.1% |
| Avicennia marina | Grey Mangrove | 11 | 4.0% |
| Banskia aemula | Wallum Banksia | 1 | 0.4% |
| Banskia integrifolia | Coast Banksia | 10 | 3.6% |
| Callitris columellaris | Coastal Cypress Pine | 61 | 21.9% |
| Casuarina glauca | Swamp Oak | 26 | 9.4% |
| Corymbia intermedia | Pink Bloodwood | 52 | 18.7% |
| Cupaniopsis anarcardioides | Tuckeroo | 1 | 0.4% |
| Elaeocarpus reticulatus | Blueberry Ash | 1 | 0.4% |
| Endiandra sieberi | Hard Corkwood | 4 | 1.4% |
| Eucalyptus robusta | Swamp Mahogany | 17 | 6.1% |
| Eucalyptus tereticornis | Forest Red Gum | 1 | 0.4% |
| Euroschinus falcatus | Ribbonwood | 10 | 3.6% |
| Ficus fraseri | Sandpaper Fig | 3 | 1.1% |
| Ficus sp | Unidentified Fig | 1 | 0.4% |
| Ficus watkinsiana | Strangling Fig | 7 | 2.5% |
| Glochidion ferdinandi | Cheese Tree | 4 | 1.4% |
| Litsea australis | Brown Bolly Gum | 13 | 4.7% |
| Lophostemon suaveolons | Swamp Box | 1 | 0.4% |
| Macaranga tanarius | Macaranaga | 1 | 0.4% |
| Melaleuca quinquenervia | Broad-leaved Paperbark | 14 | 5.0% |
| Notelaea longifolia var longifolia | Large Mock Olive | 2 | 0.7% |
| Pandanus tectorius | Screw Pine | 1 | 0.4% |
| Polyscias elegans | Celerywood | 5 | 1.8% |
| Pouteria chartacea | Thin leaved Coondoo | 1 | 0.4% |
| Syzygium oleosum | Blue Lilly Pilly | 8 | 2.9% |
| Total | | 278 | 100.00% |

APPENDIX 1: Native Plant Selection List

| Scientific Name | Common Name | Total |
|---|-------------------------|-------|
| Acacia disparrima | Hickory Wattle | 13 |
| Acacia longifolia sub sophorae | Coastal Wattle | 222 |
| Acronychia imperforata | Beach Acronychia | 16 |
| Alphitonia excelsa | Red Ash | 16 |
| Archontopheonix cunninghamiana | Bangalow Palm | 21 |
| Banksia integrifolia | Coastal Banksia | 38 |
| Banskia aemula | Wallum Banksia | 25 |
| Breynia oblongifolia | Coffee Bush | 24 |
| Callitris columellaris | Coastal Cypress Pine | 34 |
| Casuarina glauca | Swamp Oak | 21 |
| Corymbia intermedia | Pink Bloodwood | 25 |
| Crinum pedunculatum | River Lily | 511 |
| Cryptocaria triplinervis var triplinervis | Three Veined Laurel | 16 |
| Cupaniopsis anacardiodes | Tuckeroo | 16 |
| Duboisia myoporoides | Corkwood | 16 |
| Eleocarpus reticulatus | Blueberry Ash | 16 |
| Endiandra sieberi | Hard Corkwood | 10 |
| Eucalyptus robusta | Swamp Mahogany | 13 |
| Eucalyptus teriticornis | Forest Red Gum | 2 |
| Euroschinus falcatus | Ribbonwood | 49 |
| Ficus fraseri | Forest Sandpaper Fig | 16 |
| Ficus watkinsiana | Strangler Fig | 2 |
| Glochidion ferdinandi | Cheese Tree | 16 |
| Hibiscus tiliaceus | Cottonwood | 4 |
| Litsea australis | Brown Bollygum | 46 |
| Lomandra longifolia | Spiny Matrush | 2051 |
| Macaranga tanarius | Macaranga | 20 |
| Melaleuca quinquinervia | Broad Leaved Paperbark | 8 |
| Myoporum acuminatum | Boobialla | 16 |
| Notelaea longifolia var longifolia | Large Leaved Mock Olive | 8 |
| Pandanus tectorius | Pandanus | 8 |
| Planchonella chartacea | Thin leaved Coondoo | 2 |
| Polycias elgans | Celerywood | 22 |
| Syzygium oleosum | Blue Lillypilly | 36 |

3349

APPENDIX 2: Edge species planting numbers for relevant subzones

| Sub- | Number | Crinum | Lomandra |
|------|-----------|--------------|------------|
| Zone | of Plants | pedunculatum | longifolia |
| 1a | 174 | 35 | 139 |
| 1c | 47 | 9 | 38 |
| 2a | 157 | 31 | 126 |
| 2c | 47 | 9 | 38 |
| 3a | 159 | 32 | 127 |
| 3d | 47 | 9 | 38 |
| 4a | 133 | 27 | 106 |
| 4e | 47 | 9 | 38 |
| 4f | 29 | 6 | 23 |
| 5a | 129 | 26 | 103 |
| 5e | 47 | 9 | 38 |
| 6a | 163 | 33 | 130 |
| 6e | 51 | 10 | 41 |
| 7a | 110 | 22 | 88 |
| 7e | 53 | 11 | 42 |
| 7f | 49 | 10 | 39 |
| 8a | 116 | 23 | 93 |
| 8e | 49 | 10 | 39 |
| 9a | 106 | 21 | 85 |
| 10a | 121 | 24 | 97 |
| 10e | 53 | 11 | 42 |
| 10f | 25 | 5 | 20 |
| 11a | 119 | 24 | 95 |
| 11e | 45 | 9 | 36 |
| 11f | 22 | 4 | 18 |
| 12a | 131 | 26 | 105 |
| 12e | 47 | 9 | 38 |
| 12f | 16 | 3 | 13 |
| 13a | 184 | 37 | 147 |
| 13e | 41 | 8 | 33 |
| 14a | 31 | 6 | 25 |
| 14e | 14 | 3 | 11 |
| | 2562* | 511* | 2051* |

^{*}Note that these totals may increase due to changes in construction details. It is estimated that ~25 *Crinum pedunculatum* and ~100 *Lomandra longifolia* will be required to fill the extra area created by the changed planting area.

APPENDIX 3: Upper slope species and planting numbers for relevant subzones

| Zone | Sub- Zone | Number of Plants | Acacia longifolia subsp sophorae | Banskia aemula | Breynia oblongifolia |
|------|--------------|------------------|-------------------------------------|-------------------|-------------------------|
| 1 | 1b | 59 | 47 | 6 | 6 |
| 2 | 2b | 58 | 47 | 6 | 5 |
| 3 | 3b | 19 | 15 | 2 | 2 |
| 4 | 4b | 14 | 12 | 1 | 1 |
| 5 | 5b | 13 | 11 | 1 | 1 |
| 6 | 6b | 13 | 11 | 1 | 1 |
| 7 | 7b | 8 | 6 | 1 | 1 |
| 8 | 8b | 13 | 11 | 1 | 1 |
| 9 | 9b | 17 | 14 | 2 | 1 |
| 10 | 10b | 16 | 13 | 1 | 2 |
| 11 | 11b | 11 | 9 | 1 | 1 |
| 12 | 12b | 15 | 13 | 1 | 1 |
| 13 | 13b | 11 | 9 | 1 | 1 |
| 14 | 14b | 4 | 4 | 0 | 0 |
| | | 271 | 222 | 25 | 24 |

APPENDIX 4: Mid slope species and planting numbers for relevant subzones

| | | Sub-Zone | | | | | | | | | | | | |
|---|-------------------------|----------|----|----|----|----|----|----|-------------|-----|-----|-----|-----|-----|
| Scientific Name | Common Name | 3c | 4c | 5c | 6с | 7c | 8c | 9с | 10 c | 11c | 12c | 13c | 14c | |
| Acronychia imperforata | Beach Acronychia | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 12 |
| Alphitonia excelsa | Red Ash | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 12 |
| Archontopheonix cunninghamiana | Bangalow Palm | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 17 |
| Banksia integrifolia | Coastal Banksia | 3 | 2 | 2 | 3 | 0 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 25 |
| Cryptocaria triplinervis var triplinervis | Three Veined Laurel | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 12 |
| Cupaniopsis anacardiodes | Tuckeroo | 2 | 0 | 1 | 1 | 1 | 2 | 0 | 1 | 1 | 2 | 1 | 0 | 12 |
| Duboisia myoporoides | Corkwood | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 1 | 2 | 1 | 0 | 12 |
| Eleocarpus reticulatus | Blueberry Ash | 2 | 0 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 2 | 1 | 0 | 12 |
| Endiandra sieberi | Hard Corkwood | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 6 |
| Euroschinus falcata | Ribbonwood | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 3 | 4 | 3 | 1 | 32 |
| Ficus fraseri | Forest Sandpaper Fig | 2 | 1 | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 2 | 1 | 0 | 12 |
| Glochidion ferdinandi | Cheese Tree | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 0 | 12 |
| Litsea australis | Brown Bollygum | 5 | 2 | 3 | 3 | 2 | 4 | 1 | 2 | 3 | 3 | 3 | 1 | 32 |
| Macaranga tanarius | Macaranga | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 2 | 1 | 0 | 12 |
| Myoporum acuminatum | Boobialla | 1 | 1 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 2 | 1 | 0 | 12 |
| Notelaea longifolia var longifolia | Large Leaved Mock Olive | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| Pandanus tectorius | Pandanus | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |
| Polycias elgans | Celerywood | 2 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 0 | 17 |
| Syzygium oleosum | Blue Lillypilly | 3 | 1 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 3 | 2 | 1 | 23 |
| Total | | 37 | 16 | 22 | 29 | 12 | 38 | 16 | 20 | 23 | 38 | 24 | 6 | 281 |

APPENDIX 5: Lower slope species and planting numbers for relevant subzones

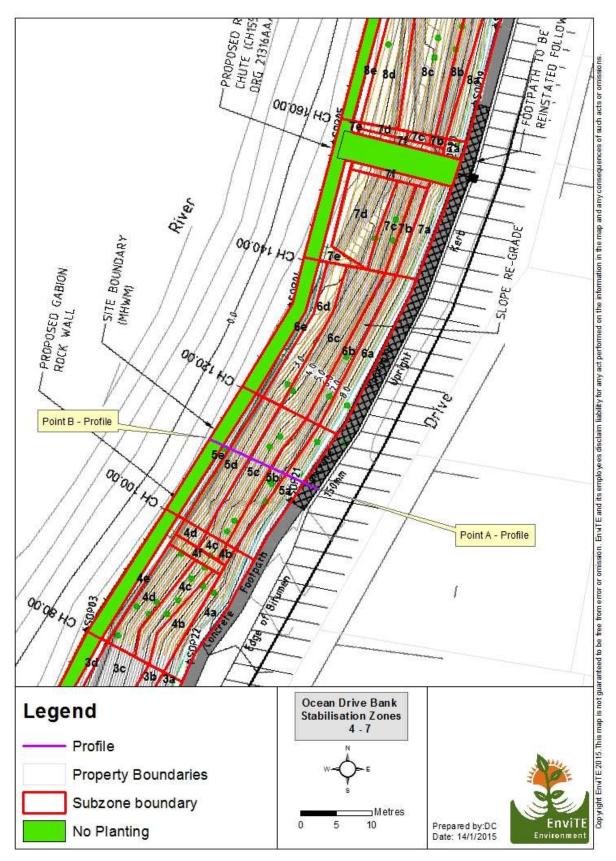
| Scientific Name | Common Name | Sub Zone | | | | | | | | | | | | |
|---|------------------------|----------|----|----|----|----|----|-----|-----|-----|-----|-----|----|--|
| | | 4d | 5d | 6d | 7d | 8d | 9d | 10d | 11d | 12d | 13d | 14d | | |
| Acacia disparrima | Hickory Wattle | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 0 | 1 | 0 | 13 | |
| Acronychia imperforata | Beach Acronychia | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 4 | |
| Alphitonia excelsa | Red Ash | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 4 | |
| Archontopheonix cunninghamiana | Bangalow Palm | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 4 | |
| Banksia integrifolia | Coastal Banksia | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 13 | |
| Callitris columellaris | Coastal Cypress Pine | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 1 | 34 | |
| Casuarina glauca | Swamp Oak | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 21 | |
| Corymbia intermedia | Pink Bloodwood | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 1 | 25 | |
| Cryptocaria triplinervis var triplinervis | Three Veined Laurel | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | |
| Cupaniopsis anacardiodes | Tuckeroo | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | |
| Duboisia myoporoides | Corkwood | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | |
| Eleocarpus reticulatus | Blueberry Ash | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | |
| Endiandra sieberi | Hard Corkwood | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | |
| Eucalyptus robusta | Swamp Mahogany | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 0 | 13 | |
| Eucalyptus teriticornis | Forest Red Gum | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | |
| Euroschinus falcata | Ribbonwood | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 17 | |
| Ficus fraseri | Forest Sandpaper Fig | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 4 | |
| Ficus watkinsiana | Strangler Fig | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | |
| Glochidion ferdinandi | Cheese Tree | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 4 | |
| Hibiscus tiliaceus | Cottonwood | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 4 | |
| Litsea australis | Brown Bollygum | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 0 | 14 | |
| Macaranga tanarius | Macaranga | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 8 | |
| Melaleuca quinquinervia | Broad Leaved Paperbark | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 8 | |
| Myoporum acuminatum | Boobialla | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | |

| Scientific Name | Common Name | Sub Zone | | | | | | | | | | | |
|------------------------------------|-------------------------|----------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| | | 4d | 5d | 6d | 7d | 8d | 9d | 10d | 11d | 12d | 13d | 14d | |
| Notelaea longifolia var longifolia | Large Leaved Mock Olive | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 4 |
| Pandanus tectorius | Pandanus | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 3 |
| Planchonella chartacea | Thin Leaved Coondoo | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Polycias elgans | Celerywood | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 5 |
| Syzygium oleosum | Blue Lillypilly | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 13 |
| | Total | 21 | 20 | 18 | 25 | 26 | 23 | 17 | 34 | 31 | 25 | 5 | 245 |

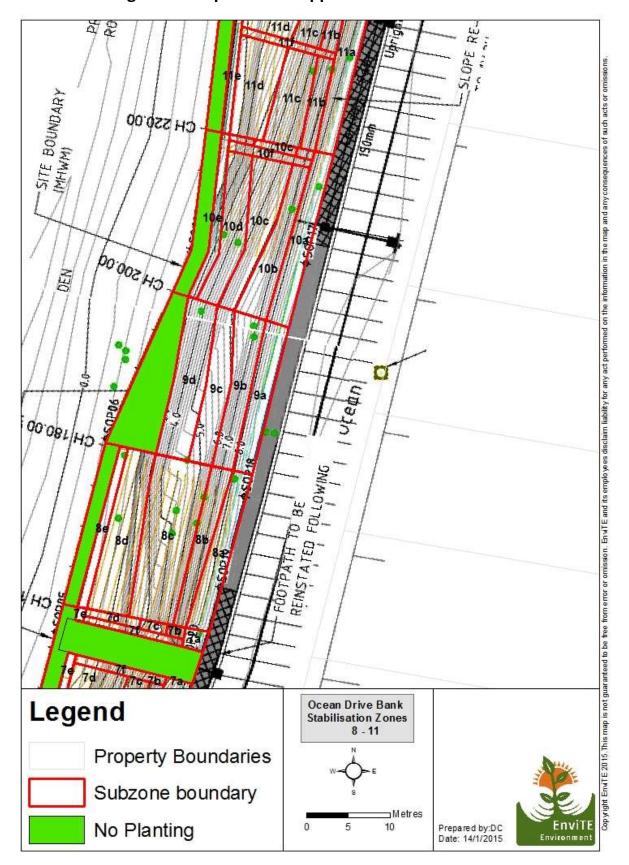
APPENDIX 6: Map showing zones 0 - 3, associated subzones, chainage and contours. Note green dots previous mapped locations of trees >200mm DBH



APPENDIX 7: Map showing zones 4 - 7, associated subzones, chainage and contours. Note green dots previous mapped locations of trees >200mm DBH



APPENDIX 8: Map showing zones 8 - 11, associated subzones, chainage and contours. Note green dots previous mapped locations of trees >200mm DBH



APPENDIX 9: Map showing zones 12 - 16, associated subzones, chainage and contours. Note green dots previous mapped locations of trees >200mm DBH

