Scientific Name	Common Name	Native or Exotic	Last Sited
Atkinsonia ligustrina		Native	31/10/1904
Dendrophthoe vitellina		Native	5/09/2007
Muellerina celastroides		Native	31/12/1896
Muellerina eucalyptoides		Native	13/03/2008
Eustrephus latifolius	Wombat Berry	Native	17/09/2008
Geitonoplesium cymosum	Scrambling Lily	Native	17/09/2008
Lycopodiella cernua	Scrambling Clubmoss	Native	27/02/2004
Lycopodiella lateralis	Slender Clubmoss	Native	27/02/2004
Lagerstroemia indica		Exotic	20/03/2009
Lythrum hyssopifolia	Hyssop Loosestrife	Native	25/10/2004
Cotoneaster glaucophyllus		Exotic	1/06/2009
Cotoneaster pannosus		Exotic	2/04/2004
Cotoneaster spp.		Exotic	22/12/2005
Crataegus monogyna	Hawthorn	Exotic	25/10/2004
Eriobotrya japonica	Loquat	Exotic	19/11/2004
Malus domestica	Apple	Exotic	13/03/2008
Malus spp.		Exotic	18/06/2003
Photinia serratifolia	Chinese Photinia	Exotic	1/06/2009
Pyracantha angustifolia	Orange Firethorn	Exotic	14/03/2008
Pyracantha crenulata		Exotic	1/06/2009
Pyracantha spp.		Exotic	17/09/2008
Rhaphiolepis indica	Indian Hawthorn	Exotic	31/07/1897
Abutilon grandifolium		Exotic	2/11/1997
Abutilon oxycarpum	Straggly Lantern-bush	Native	21/05/1996
Gossypium barbadense	Sea Island Cotton	Exotic	26/04/1969
Hibiscus heterophyllus subsp. heterophyllus	Native Rosella	Native	21/05/1996
Hibiscus spp.		Native	1/06/2009
Hibiscus trionum	Flower-of-an-hour	Native	17/05/1969
Lagunaria patersonia	Norfolk Island Hibiscus	Native	17/09/2008
Malva dendromorpha	Tree Mallow	Exotic	29/10/1966
Malva neglecta	Dwarf Mallow	Exotic	17/09/2008
Malva parviflora	Small-flowered Mallow	Exotic	1/06/2009
Malva spp.	Mallow	Exotic	20/03/2009
Malva sylvestris	Tall Mallow	Exotic	30/07/2008
Modiola caroliniana	Red-flowered Mallow	Exotic	16/07/2009
Pavonia hastata		Exotic	15/02/1888
Sida acuta	Spinyhead Sida	Exotic	1/06/2009
Sida corrugata	Corrugated Sida	Native	13/03/2008
Sida rhombifolia	Paddy's Lucerne	Exotic	23/07/2009
Sida spinosa		Native	13/03/2008
Sida subspicata		Native	27/02/1992
Marsilea hirsuta	Short-fruited Nardoo	Native	24/05/1996
Marsilea mutica		Native	25/10/2004
Pilularia novae-hollandiae	Austral Pillwort	Native	3/01/1966
Melia azedarach	White Cedar	Native	20/03/2009
Synoum glandulosum subsp. glandulosum	Scentless Rosewood	Native	31/07/1898
Toona ciliata	Red Cedar	Native	4/07/1969
Legnephora moorei	Round-leaf Vine	Native	28/05/1996
Sarcopetalum harveyanum	Pearl Vine	Native	1/03/2002
Stephania japonica	Snake vine	Native	17/09/2008

Scientific Name	Common Name	Native or Exotic	Last Sited
Nymphoides geminata	Entire Marshwort	Native	7/08/2002
Nymphoides montana	Marshwort	Native	12/10/2005
Villarsia exaltata	Yellow Marsh Flower	Native	20/10/2004
Ficus carica	Common Fig	Exotic	25/02/1970
Ficus coronata	Creek Sandpaper Fig	Native	6/06/2008
Ficus macrophylla		Native	18/12/2007
Ficus macrophylla subsp. macrophylla	Moreton Bay Fig	Native	25/10/2004
Ficus pumila	Creeping Fig	Exotic	21/11/1969
Ficus rubiginosa	Port Jackson Fig	Native	20/03/2009
Ficus rubiginosa f. rubiginosa		Exotic	6/04/1968
Ficus spp.		Exotic	2/07/1998
Maclura cochinchinensis	Cockspur Thorn	Native	17/09/2008
Maclura pomifera	Osage Orange	Exotic	11/04/1971
Morus alba	White Mulberry	Exotic	14/03/2008
Streblus brunonianus	Whalebone Tree	Native	25/05/1996
Eremophila debilis	Amulla	Native	6/06/2008
Myoporum acuminatum	Boobialla	Native	17/09/2008
Myoporum montanum	Western Boobialla	Native	25/10/2004
Aegiceras corniculatum	River Mangrove	Native	05/03/1887
Anagallis arvensis	Scarlet Pimpernel	Exotic	16/07/2009
Myrsine howittiana	Brush Muttonwood	Native	31/07/1896
Myrsine variabilis		Native	1/03/2002
Acmena smithii	Lilly Pilly	Native	20/03/2009
Angophora bakeri	Narrow-leaved Apple	Native	31/01/1897
Angophora costata	Sydney Red Gum	Native	17/09/2008
Angophora crassifolia		Native	18/01/2005
Angophora floribunda	Rough-barked Apple	Native	30/07/2008
Angophora hispida	Dwarf Apple	Native	17/09/2008
Angophora subvelutina	Broad-leaved Apple	Native	31/01/1896
Austromyrtus tenuifolia		Native	30/11/1898
Backhousia myrtifolia	Grey Myrtle	Native	31/01/1896
Baeckea brevifolia		Native	5/09/2007
Baeckea diosmifolia	Fringed Baeckea	Native	2/07/1998
Baeckea imbricata		Native	4/03/2008
Baeckea linifolia	Weeping Baeckea	Native	1/03/2002
Callistemon citrinus	Crimson Bottlebrush	Native	5/09/2007
Callistemon linearifolius	Netted Bottle Brush	Native	3/04/1951
Callistemon linearis	Narrow-leaved Bottlebrush	Native	5/09/2007
Callistemon pinifolius	Pine-leaved Bottlebrush	Native	31/10/1897
Callistemon rigidus	Stiff Bottlebrush	Native	5/09/2007
Callistemon salignus	Willow Bottlebrush	Native	20/03/2009
Callistemon sieberi	River Bottlebrush	Native	2/07/1995
Callistemon spp.		Native	1/06/2009
Callistemon viminalis	Weeping Bottlebrush	Native	20/03/2009
Calytrix tetragona	Common Fringe-myrtle	Native	17/09/2008
Corymbia eximia	Yellow Bloodwood	Native	17/07/2008
Corymbia gummifera	Red Bloodwood	Native	17/09/2008
Corymbia maculata	Spotted Gum	Native	30/04/1810
Darwinia biflora		Native	27/02/2004
Darwinia diminuta		Native	31/07/1999

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Darwinia fascicularis subsp. fascicularis		Native	5/09/2007
Darwinia grandiflora		Native	11/06/1994
Eucalyptus acmenoides	White Mahogany	Native	14/03/2003
Eucalyptus amplifolia	Cabbage Gum	Native	20/03/2009
Eucalyptus amplifolia subsp. amplifolia		Native	6/06/2008
Eucalyptus apiculata		Native	5/06/1996
Eucalyptus baueriana	Blue Box	Native	31/10/1885
Eucalyptus benthamii	Camden White Gum	Native	17/07/2008
Eucalyptus beyeriana		Native	20/12/2003
Eucalyptus bosistoana	Coast Grey Box	Native	30/01/1809
Eucalyptus botryoides	Bangalay	Native	17/09/2008
Eucalyptus botryoides -- saligna		Native	22/09/1952
Eucalyptus bridgesiana	Apple Box	Native	4/03/2008
Eucalyptus camfieldii	Heart-leaved Stringybark	Native	24/08/1952
Eucalyptus capitellata	Brown Stringybark	Native	5/09/2007
Eucalyptus consideniana	Yertchuk	Native	22/12/1974
Eucalyptus crebra	Narrow-leaved Ironbark	Native	08/01/1894
Eucalyptus deanei	Mountain Blue Gum	Native	4/03/2008
Eucalyptus dives	Broad-leaved Peppermint	Native	28/02/1898
Eucalyptus elata	River Peppermint	Native	17/07/2008
Eucalyptus eugenioides	Thin-leaved Stringybark	Native	30/07/2008
Eucalyptus fastigata	Brown Barrel	Native	14/05/1964
Eucalyptus fibrosa	Red Ironbark	Native	23/07/2009
Eucalyptus globoidea	White Stringybark	Native	5/09/2007
Eucalyptus haemastoma	Broad-leaved Scribbly Gum	Native	17/09/2008
Eucalyptus longifolia	Woollybutt	Native	31/10/1886
Eucalyptus luehmanniana	Yellow Top Mallee Ash	Native	31/07/1994
Eucalyptus microcorys	Tallowwood	Native	17/09/2008
Eucalyptus moluccana	Grey Box	Native	31/10/1884
Eucalyptus multicaulis	Whipstick Ash	Native	25/10/1988
Eucalyptus nicholii	Narrow-leaved Black Peppermint	Native	2/07/1998
Eucalyptus oblonga	Stringybark	Native	4/03/2008
Eucalyptus paniculata	Grey Ironbark	Native	18/06/2003
Eucalyptus paniculata subsp. paniculata		Native	20/05/1998
Eucalyptus parramattensis	Parramatta Red Gum	Native	6/07/1988
Eucalyptus parramattensis subsp. parramattensis		Native	24/04/2006
Eucalyptus pilularis	Blackbutt	Native	19/11/1898
Eucalyptus piperita	Sydney Peppermint	Native	17/09/2008
Eucalyptus punctata	Grey Gum	Native	17/07/2008
Eucalyptus punctata subsp. punctata		Native	6/11/1948
Eucalyptus punctata subsp. wianamattica		Native	3/04/1997
Eucalyptus racemosa	Narrow-leaved Scribbly Gum	Native	5/09/2007
Eucalyptus resinifera	Red Mahogany	Native	30/11/2000
Eucalyptus resinifera subsp. resinifera		Native	17/09/2008
Eucalyptus robusta	Swamp Mahogany	Native	17/09/2008
Eucalyptus saligna	Sydney Blue Gum	Native	17/09/2008
Eucalyptus sclerophylla	Hard-leaved Scribbly Gum	Native	31/08/1898
Eucalyptus scoparia	Wallangarra White Gum	Native	14/11/2005
Eucalyptus siderophloia	Grey Ironbark	Native	27/09/1996
Eucalyptus sideroxylon	Mugga Ironbark	Native	31/10/1886

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Eucalyptus sieberi	Silvertop Ash	Native	4/03/2008
Eucalyptus sparsifolia	Narrow-leaved Stringybark	Native	20/10/2004
Eucalyptus spp.		Native	5/09/2007
Eucalyptus squamosa	Scaly Bark	Native	30/12/1892
Eucalyptus tereticornis	Forest Red Gum	Native	1/06/2009
Eucalyptus umbra	Broad-leaved White Mahogany	Native	26/03/2007
Euryomyrtus ramosissima subsp. ramosissima		Native	31/10/1898
Kunzea ambigua	Tick Bush	Native	17/09/2008
Kunzea capitata		Native	7/08/2002
Kunzea parvifolia	Violet Kunzea	Native	12/10/1894
Leptospermum arachnoides		Native	17/09/2008
Leptospermum continentale	Prickly Teatree	Native	15/11/1992
Leptospermum emarginatum	Twin-flower Tea-tree	Native	5/09/1951
Leptospermum grandifolium	Woolly Teatree	Native	30/11/1897
Leptospermum juniperinum	Prickly Tea-tree	Native	31/12/1898
Leptospermum laevigatum	Coast Teatree	Native	17/09/2008
Leptospermum macrocarpum		Native	31/12/1883
Leptospermum morrisonii		Native	21/12/1966
Leptospermum parvifolium		Native	31/10/1885
Leptospermum polygalifolium	Tantoon	Native	17/09/2008
Leptospermum polygalifolium subsp. polygalifolium		Native	30/11/1894
Leptospermum spp.	Tea-tree	Native	18/12/2007
Leptospermum squarrosum		Native	4/03/2008
Leptospermum trinervium	Slender Tea-tree	Native	31/10/1897
Lophostemon confertus	Brush Box	Native	1/06/2009
Melaleuca armillaris subsp. armillaris	Bracelet Honey-myrtle	Native	20/03/2009
Melaleuca deanei	Deane's Paperbark	Native	19/10/1996
Melaleuca decora		Native	31/12/1891
Melaleuca ericifolia	Swamp Paperbark	Native	20/03/2009
Melaleuca erubescens	Pink Honeymyrtle	Native	4/03/2008
Melaleuca hypericifolia	Hillock bush	Native	5/09/2007
Melaleuca linariifolia	Flax-leaved Paperbark	Native	30/11/1889
Melaleuca nodosa		Native	31/10/1893
Melaleuca quinquenervia	Broad-leaved Paperbark	Native	20/03/2009
Melaleuca sieberi		Native	15/12/1922
Melaleuca spp.		Native	20/03/2009
Melaleuca squamea	Swamp Honey-myrtle	Native	15/09/1981
Melaleuca styphelioides	Prickly-leaved Tea Tree	Native	20/03/2009
Melaleuca thymifolia	Thyme Honey-myrtle	Native	21/02/2003
Micromyrtus ciliata	Fringed Heath-myrtle	Native	27/02/2004
Sannantha pluriflora		Exotic	8/12/1995
Syncarpia glomulifera	Turpentine	Native	17/07/2008
Syncarpia glomulifera subsp. glomulifera		Native	31/10/1887
Syzygium francisii	Giant Water Gum	Native	20/03/2009
Syzygium oleosum	Blue Lilly Pilly	Native	31/07/1904
Syzygium paniculatum	Magenta Lilly Pilly	Native	3/07/1977
Tristania neriifolia	Water Gum	Native	31/01/1894
Tristaniopsis collina	Mountain Water Gum	Native	6/06/2008
Tristaniopsis laurina	Kanooka	Native	20/03/2009
Najas tenuifolia	Waternymph	Native	17/05/1992

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Nandina domestica	Japanese Sacred Bamboo	Exotic	1/06/2009
Mirabilis jalapa	Four-o'clock Flower	Exotic	20/03/2009
Ochna serrulata	Mickey Mouse Plant	Exotic	17/01/2008
Olax stricta		Native	17/10/1896
Jasminum polyanthum	White Jasmine	Exotic	15/11/2006
Ligustrum lucidum	Large-leaved Privet	Exotic	1/06/2009
Ligustrum sinense	Small-leaved Privet	Exotic	20/03/2009
Notelaea longifolia	Large Mock-olive	Native	17/09/2008
Notelaea longifolia f. longifolia		Native	30/04/1885
Notelaea venosa	Veined Mock-olive	Native	28/05/1996
Olea europaea	Common Olive	Exotic	17/09/2008
Olea europaea subsp. cuspidata	African Olive	Exotic	22/06/1899
Epilobium billardierianum subsp. billardierianum		Native	7/08/2002
Epilobium billardierianum subsp. cinereum		Native	14/04/2004
Epilobium ciliatum		Exotic	29/09/1971
Epilobium hirtigerum		Native	20/03/2009
Gaura lindheimeri		Exotic	21/10/1969
Ludwigia peploides subsp. montevidensis	Water Primrose	Native	14/03/2008
Ludwigia peruviana		Exotic	4/03/2008
Oenothera affinis		Exotic	20/03/2009
Oenothera indecora subsp. bonariensis		Exotic	5/11/1967
Oenothera longiflora		Exotic	20/10/2004
Oenothera longiflora subsp. longiflora		Exotic	21/10/1893
Oenothera mollissima		Exotic	20/03/2009
Oenothera stricta subsp. stricta		Exotic	14/03/2008
Ophioglossum lusitanicum	Adder's Tongue	Native	8/04/1967
Acianthus caudatus	Mayfly Orchid	Native	15/08/1897
Acianthus exsertus	Mosquito Orchid	Native	30/11/1989
Acianthus fornicatus	Pixie Caps	Native	30/11/1992
Acianthus spp.	Mosquito Orchid	Native	20/05/1998
Bulbophyllum exiguum		Native	1/03/2002
Burnettia cuneata	Lizard Orchid	Native	9/10/1994
Caladenia carnea	Pink Fingers	Native	17/09/1998
Caladenia catenata	White Caladenia	Native	30/11/1992
Caladenia filamentosa	Daddy Longlegs	Native	15/09/1956
Caladenia fuscata	Dusky Fingers	Native	3/09/1955
Caladenia picta		Native	30/11/1989
Caladenia testacea	Honey Caladenia	Native	15/09/1956
Caleana major	Large Duck Orchid	Native	30/11/1992
Caleana spp.		Native	30/11/1989
Calochilus campestris	Copper Beard Orchid	Native	12/09/1897
Calochilus paludosus	Red Beard Orchid	Native	22/10/1966
Calochilus robertsonii	Purplish Beard Orchid	Native	22/09/1949
Calochilus spp.		Native	5/09/2007
Cestichis reflexa		Native	31/05/1893
Chiloglottis formicifera	Ant Orchid	Native	16/09/1990
Chiloglottis reflexa		Native	30/11/1989
Chiloglottis seminuda		Native	19/04/1992
Corybas aconitiflorus	Spurred Helmet Orchid	Native	30/11/1989
Corybas fimbriatus	Fringed Helmet Orchid	Native	31/05/1955

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Corybas pruinosus	Toothed Helmet Orchid	Native	30/11/1989
Cryptostylis erecta	Tartan Tongue Orchid	Native	1/03/2002
Cryptostylis subulata	Large Tongue Orchid	Native	27/02/2004
Cyanicula caerulea	Blue Caladenia	Native	27/08/1899
Cymbidium suave	Snake Orchid	Native	1/03/2002
Cyrtostylis reniformis	Gnat Orchid	Native	05/09/1897
Dendrobium cucumerinum	Cucumber Orchid	Native	17/01/1961
Dendrobium linguiforme	Tongue Orchid	Native	31/10/1894
Dendrobium speciosum	Rock Lily	Native	30/11/1989
Dendrobium striolatum	Streaked Rock Orchid	Native	1/03/2002
Diplodium grandiflorum		Native	30/11/1989
Diplodium obtusum		Native	23/04/1950
Dipodium punctatum		Native	31/12/1982
Dipodium spp.		Native	4/05/2007
Diuris aequalis	Buttercup Doubletail	Native	18/02/1905
Diuris aurea		Native	6/10/1964
Diuris lanceolata	Snake Orchid	Native	3/09/1955
Diuris maculata	Spotted Doubletail	Native	5/09/2007
Diuris pardina	Leopard Orchid	Native	7/08/2002
Diuris punctata	Purple Donkey Orchid	Native	30/11/1992
Diuris punctata var. punctata		Native	11/10/1969
Diuris sulphurea	Tiger Orchid	Native	30/11/1992
Eriochilus cucullatus	Parson's Bands	Native	31/03/1885
Erythrorchis cassythoides	Climbing Orchid	Native	4/03/2008
Gastrodia sesamoides	Cinnamon Bells	Native	24/09/1969
Genoplesium despectans	Sharp Midge Orchid	Native	18/03/1970
Genoplesium filiforme		Native	25/02/1990
Genoplesium fimbriatum	Fringed Midge Orchid	Native	4/03/2008
Genoplesium nigricans	Mallee Midge Orchid	Native	14/02/1956
Genoplesium nudiscapum	Dense Midge Orchid	Native	30/04/1927
Genoplesium rufum	Red Midge Orchid	Native	17/04/1994
Genoplesium woollsii		Native	30/04/1948
Glossodia major	Waxlip Orchid	Native	7/08/2002
Glossodia minor	Small Waxlip Orchid	Native	5/09/2007
Lyperanthus suaveolens	Brown Beaks	Native	30/11/1894
Microtis parviflora	Slender Onion Orchid	Native	28/11/2006
Microtis rara	Scented Onion Orchid	Native	09/11/1881
Microtis rufa		Native	9/10/1989
Microtis unifolia	Common Onion Orchid	Native	09/11/1881
Orthoceras strictum	Bird's-mouth Orchid	Native	31/08/1915
Papillilabium beckleri		Native	17/10/1956
Paracaleana minor	Small Duck Orchid	Native	30/11/1978
Prasophyllum brevilabre	Short-lipped Leek Orchid	Native	31/08/1994
Prasophyllum elatum	Tall Leek Orchid	Native	17/09/1899
Pterostylis acuminata	Pointed Greenhood	Native	30/05/1999
Pterostylis chaetophora		Native	9/10/1989
Pterostylis concinna	Trim Greenhood	Native	6/06/2003
Pterostylis curta	Blunt Greenhood	Native	13/09/1998
Pterostylis erecta	Erect Maroonhood	Native	5/08/1989
Pterostylis gibbosa	Illawarra Greenhood	Native	31/10/1949

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Pterostylis longifolia	Tall Greenhood	Native	6/06/2003
Pterostylis mitchellii	Mitchell's Rustyhood	Native	7/10/1947
Pterostylis mutica	Midget Greenhood	Native	3/09/1955
Pterostylis nigricans	Dark Greenhood	Native	12/03/1967
Pterostylis nutans	Nodding Greenhood	Native	27/09/1890
Pterostylis reflexa	Small Autumn Greenhood	Native	19/04/1992
Pterostylis revoluta		Native	8/04/1950
Pterostylis rufa	Rusty Hood	Native	4/03/2008
Pterostylis saxicola	Sydney Plains Greenhood	Native	6/11/2007
Pterostylis spp.	Greenhood	Native	6/06/2003
Sarcochilus hillii		Native	4/03/2008
Spiranthes australis	Ladies' Tresses	Native	1/04/1990
Thelymitra brevifolia		Native	11/10/1966
Thelymitra carnea	Tiny Sun Orchid	Native	30/11/1992
Thelymitra cyanea	Veined Sun Orchid	Native	4/11/1991
Thelymitra ixioides var. ixioides	Dotted Sun Orchid	Native	30/09/1892
Thelymitra longiloba		Native	31/10/1948
Thelymitra media var. media	Tall Sun Orchid	Native	20/09/1969
Thelymitra pauciflora	Slender Sun Orchid	Native	30/11/1992
Thelymitra peniculata		Native	20/09/1969
Thelymitra spp.		Native	1/08/2003
Todea barbara	King Fern	Native	27/02/2004
Oxalis articulata		Exotic	24/05/1989
Oxalis bifurca		Exotic	3/03/1992
Oxalis bowiei		Exotic	20/04/1962
Oxalis chnoodes		Native	23/01/1995
Oxalis corniculata	Creeping Oxalis	Exotic	1/06/2009
Oxalis debilis var. corymbosa		Exotic	13/03/2008
Oxalis exilis		Native	13/03/2008
Oxalis incarnata		Exotic	18/10/1964
Oxalis latifolia		Exotic	5/09/2007
Oxalis perennans		Native	14/07/2009
Oxalis pes-caprae	Soursob	Exotic	1/06/2009
Oxalis purpurea		Exotic	16/05/1954
Oxalis spp.		Native	6/06/2008
Oxalis thompsoniae		Exotic	16/07/2009
Eschscholzia californica	California Poppy	Exotic	11/10/1969
Papaver dubium	Longhead Poppy	Exotic	4/11/1967
Papaver somniferum subsp. setigerum		Exotic	11/10/1969
Passiflora edulis	Common Passionfruit	Exotic	17/09/2008
Passiflora filamentosa		Exotic	17/11/1983
Passiflora herbertiana		Native	6/06/2003
Passiflora herbertiana subsp. herbertiana	Native Passionfruit	Native	15/08/1997
Passiflora morifolia		Exotic	17/01/2008
Passiflora spp.		Exotic	6/06/2003
Passiflora subpeltata	White Passionflower	Exotic	30/11/1894
Philydrum lanuginosum	Frogsmouth	Native	18/01/2005
Dianella caerulea	Blue Flax-lily	Native	17/09/2008
Dianella caerulea var. assera		Native	1/12/1963
Dianella caerulea var. caerulea		Native	6/06/2008

Scientific Name	Common Name	Native or Exotic	Last Sited
Dianella caerulea var. producta		Native	27/02/2004
Dianella longifolia	Blueberry Lily	Native	14/07/2009
Dianella longifolia var. longifolia	A Blue Flax Lily	Native	31/12/1896
Dianella longifolia var. stenophylla		Native	31/10/1886
Dianella prunina		Native	30/11/1898
Dianella revoluta	Blueberry Lily	Native	17/09/2008
Dianella revoluta var. revoluta	A Blue Flax Lily	Native	16/05/2006
Dianella spp.		Native	17/07/2008
Stypandra glauca	Nodding Blue Lily	Native	30/09/1899
Thelionema caespitosum	Tufted Blue-lily	Native	07/01/1888
Breynia oblongifolia	Coffee Bush	Native	31/10/1890
Glochidion ferdinandi	Cheese Tree	Native	17/07/2008
Glochidion ferdinandi var. ferdinandi	Cheese Tree	Native	17/09/2008
Glochidion ferdinandi var. pubens	Hairy Cheese Tree	Native	18/02/1992
Phyllanthus gunnii		Native	13/01/2004
Phyllanthus hirtellus	Thyme Spurge	Native	17/09/2008
Phyllanthus similis		Native	30/11/1894
Phyllanthus tenellus	Hen and Chicken	Exotic	1/06/2009
Phyllanthus virgatus	Wiry Spurge	Native	23/07/2009
Phyllanthus virgatus complex		Native	12/03/1976
Poranthera corymbosa		Native	24/12/2003
Poranthera ericifolia		Native	3/10/1954
Poranthera microphylla	Small Poranthera	Native	23/07/2009
Phytolacca octandra	Inkweed	Exotic	1/06/2009
Pinus radiata	Radiata Pine	Exotic	2/07/1998
Billardiera mutabilis	Climbing Apple Berry	Native	3/10/1966
Billardiera scandens	Hairy Apple Berry	Native	30/11/1893
Bursaria longisepala		Native	8/05/1976
Bursaria spinosa	Native Blackthorn	Native	23/07/2009
Bursaria spinosa subsp. lasiophylla	Native Blackthorn	Native	31/05/1945
Bursaria spinosa subsp. spinosa	Native Blackthorn	Native	30/07/2008
Hymenosporum flavum	Native Frangipani	Native	2/07/1998
Pittosporum multiflorum	Orange Thorn	Native	18/05/1992
Pittosporum revolutum	Rough Fruit Pittosporum	Native	31/10/1896
Pittosporum undulatum	Sweet Pittosporum	Native	1/06/2009
Rhytidosporum procumbens		Native	31/12/1889
Plantago coronopus subsp. coronopus		Exotic	27/09/1969
Plantago debilis	Shade Plantain	Native	14/07/2009
Plantago gaudichaudii	Narrow Plantain	Native	6/06/2008
Plantago hirtella		Exotic	1/11/1969
Plantago lanceolata	Lamb's Tongues	Exotic	23/07/2009
Plantago major	Large Plantain	Exotic	17/09/2008
Plantago myosuros subsp. myosuros		Exotic	25/10/2004
Plantago varia		Native	24/10/1965
Veronica arvensis	Wall Speedwell	Exotic	7/10/1965
Veronica persica	Creeping Speedwell	Exotic	25/10/2004
Veronica plebeia	Trailing Speedwell	Native	23/07/2009
Agrostis capillaris	Browntop Bent	Exotic	30/01/1964
Agrostis gigantea	Redtop Bent	Exotic	25/12/1966
Agrostis stolonifera	Creeping Bent	Exotic	22/12/2003

Scientific Name	Common Name	Native or Exotic	Last Sited
Aira caryophyllea	Silvery Hairgrass	Exotic	4/03/2008
Aira cupaniana	Silvery Hairgrass	Exotic	5/10/1969
Amphibromus nervosus	Swamp Wallaby Grass	Native	1/11/1969
Andropogon virginicus	Whisky Grass	Exotic	1/06/2009
Anisopogon avenaceus	Oat Speargrass	Native	17/09/2008
Aristida benthamii var. benthamii		Native	17/02/1962
Aristida benthamii var. spinulifera		Native	1/08/2003
Aristida calycina		Native	17/09/2008
Aristida echinata		Native	19/03/1984
Aristida jerichoensis var. jerichoensis	Jericho Wiregrass	Native	27/02/2004
Aristida personata		Native	24/02/1967
Aristida ramosa	Purple Wiregrass	Native	23/07/2009
Aristida spp.	A Wiregrass	Native	18/01/2005
Aristida vagans	Threeawn Speargrass	Native	23/07/2009
Aristida warburgii		Native	25/12/1966
Arundo donax	Giant Reed	Exotic	5/09/2007
Austrodanthonia bipartita	Wallaby Grass	Native	14/03/2008
Austrodanthonia fulva	Wallaby Grass	Native	1/06/2009
Austrodanthonia monticola	A Wallaby Grass	Native	7/08/2002
Austrodanthonia pilosa	Smooth-flowered Wallaby Grass	Native	4/03/2008
Austrodanthonia racemosa	Wallaby Grass	Native	31/05/1885
Austrodanthonia racemosa var. racemosa	A Wallaby Grass	Native	14/01/2005
Austrodanthonia setacea	Smallflower Wallaby Grass	Native	23/07/2009
Austrodanthonia spp.	A Wallaby Grass	Native	7/08/2007
Austrodanthonia tenuior	A Wallaby Grass	Native	1/06/2009
Austrostipa aristiglumis	Plains Grass	Native	8/01/1969
Austrostipa nodosa	A Speargrass	Native	16/03/2003
Austrostipa pubescens		Native	4/05/2007
Austrostipa ramosissima	Stout Bamboo Grass	Native	13/03/2008
Austrostipa rudis		Native	19/11/2004
Austrostipa rudis subsp. nervosa	A Speargrass	Native	13/01/1999
Austrostipa rudis subsp. rudis		Native	1/08/2003
Austrostipa scabra	Speargrass	Native	12/10/2005
Austrostipa scabra subsp. falcata	Rough Speargrass	Native	21/02/2003
Austrostipa scabra subsp. scabra	Rough Speargrass	Native	8/01/1969
Austrostipa setacea	Corkscrew Grass	Native	19/11/2003
Austrostipa spp.	A Speargrass	Native	5/09/2007
Austrostipa verticillata	Slender Bamboo Grass	Native	25/10/2004
Avena barbata	Bearded Oats	Exotic	17/09/2004
Avena fatua	Wild Oats	Exotic	17/09/2008
Avena ludoviciana	Ludo Wild Oats	Exotic	29/10/1965
Avena sativa	Oats	Exotic	20/10/2004
Avena spp.	Oats	Exotic	7/08/2007
Axonopus compressus	Broad-leaved Carpet Grass	Exotic	26/03/1973
Axonopus fissifolius	Narrow-leafed Carpet Grass	Exotic	23/07/2009
Bambusa spp.	Unidentified bamboo	Exotic	2/04/2004
Bothriochloa decipiens var. decipiens	Pitted Bluegrass	Native	4/09/2005
Bothriochloa macra	Red Grass	Native	31/05/1885
Bothriochloa spp.	Redgrass, Bluegrass	Exotic	4/06/2004
Brachyachne convergens	Common Native Couch	Native	4/03/2008

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Briza maxima	Quaking Grass	Exotic	1/06/2009
Briza minor	Shivery Grass	Exotic	1/06/2009
Briza subaristata		Exotic	20/03/2009
Bromus catharticus	Praire Grass	Exotic	1/06/2009
Bromus diandrus	Great Brome	Exotic	1/06/2009
Bromus hordeaceus	Soft Brome	Exotic	25/10/2004
Bromus madritensis	Madrid Brome	Exotic	22/10/1967
Bromus molliformis	Soft Brome	Exotic	2/04/2004
Bromus rubens	Red Brome	Exotic	6/11/1965
Capillipedium parviflorum	Scented-top Grass	Native	5/09/2007
Cenchrus caliculatus	Hillside Burrgrass	Native	17/12/1985
Cenchrus echinatus	Mossman River Grass	Exotic	1/03/1992
Chloris divaricata var. divaricata	Slender Chloris	Native	13/03/2008
Chloris gayana	Rhodes Grass	Exotic	1/06/2009
Chloris truncata	Windmill Grass	Native	1/06/2009
Chloris ventricosa	Tall Chloris	Native	23/07/2009
Chloris virgata	Feathertop Rhodes Grass	Exotic	1/06/2009
Cortaderia jubata	Pink Pampas Grass	Exotic	3/04/2005
Cortaderia selloana	Pampas Grass	Exotic	1/06/2009
Cymbopogon refractus	Barbed Wire Grass	Native	23/07/2009
Cynodon dactylon	Common Couch	Native	1/06/2009
Cynodon incompletus		Exotic	23/01/1954
Cynodon nlemfuensis var. nlemfuensis		Exotic	17/02/1954
Dactylis glomerata	Cocksfoot	Exotic	13/03/2008
Dactyloctenium australe	Durban Grass	Exotic	14/01/2005
Dactyloctenium radulans	Button Grass	Native	15/04/1968
Deyeuxia appressa		Native	9/11/1930
Deyeuxia decipiens	Devious Bent-grass	Native	25/12/1966
Deyeuxia nudiflora		Native	21/12/1966
Deyeuxia quadriseta		Native	30/11/1969
Dichanthium sericeum	Queensland Bluegrass	Native	14/03/2008
Dichanthium sericeum subsp. sericeum	Queensland Bluegrass	Native	17/12/1985
Dichelachne crinita	Longhair Plumegrass	Native	17/09/2008
Dichelachne inaequiglumis		Native	23/07/2009
Dichelachne micrantha	Shorthair Plumegrass	Native	21/10/1893
Dichelachne parva		Native	30/04/1894
Dichelachne rara		Native	11/01/2000
Digitaria aequiglumis		Exotic	29/01/1968
Digitaria breviglumis		Native	24/03/1962
Digitaria ciliaris	Summer Grass	Exotic	13/03/2008
Digitaria diffusa	Open Summer-grass	Native	13/03/2008
Digitaria divaricatissima	Umbrella Grass	Native	14/05/2007
Digitaria ischaemum		Exotic	14/03/2008
Digitaria longiflora		Native	27/12/1918
Digitaria parviflora	Small-flowered Finger Grass	Native	4/03/2008
Digitaria sanguinalis	Crab Grass	Exotic	20/03/2009
Digitaria spp.	A Finger Grass	Exotic	14/09/2002
Digitaria violascens		Exotic	14/03/2008
Echinochloa colona	Awnless Barnyard Grass	Native	24/02/1971
Echinochloa crus-galli	Barnyard Grass	Exotic	31/03/1898

Scientific Name	Common Name	Native or Exotic	Last Sited
Echinochloa crus-pavonis	South American Barnyard Grass	Exotic	24/02/1971
Echinochloa esculenta	Japanese Millet	Exotic	31/01/1928
Echinochloa telmatophila	Swamp Barnyard Grass	Native	1/04/1968
Echinopogon caespitosus	Bushy Hedgehog-grass	Native	14/03/2008
Echinopogon caespitosus var. caespitosus	Tufted Hedgehog Grass	Native	13/03/2008
Echinopogon ovatus	Forest Hedgehog Grass	Native	30/11/1894
Echinopogon spp.	A Hedgehog Grass	Native	18/01/2005
Ehrharta erecta	Panic Veldtgrass	Exotic	1/06/2009
Ehrharta longiflora	Annual Veldtgrass	Exotic	31/08/1975
Eleusine indica	Crowsfoot Grass	Exotic	4/03/2008
Eleusine spp.		Exotic	7/01/2004
Eleusine tristachya	Goose Grass	Exotic	14/03/2008
Elymus multiflorus	Philip Island Wheatgrass	Native	4/03/2008
Elymus scaber	Common Wheatgrass	Native	14/03/2003
Elymus scaber var. scaber	Common Wheatgrass	Native	20/10/2004
Enteropogon acicularis	Curly Windmill Grass	Native	15/05/2006
Entolasia marginata	Bordered Panic	Native	1/06/2009
Entolasia spp.		Native	1/08/2003
Entolasia stricta	Wiry Panic	Native	20/03/2009
Entolasia whiteana		Native	31/05/1986
Eragrostis alveiformis		Native	24/03/1967
Eragrostis benthamii		Native	27/02/2004
Eragrostis brownii	Brown's Lovegrass	Native	23/07/2009
Eragrostis cilianensis	Stinkgrass	Exotic	1/06/2009
Eragrostis curvula	African Lovegrass	Exotic	9/07/2009
Eragrostis elongata	Clustered Lovegrass	Native	10/02/1968
Eragrostis lacunaria	Purple Lovegrass	Native	29/02/1880
Eragrostis leptostachya	Paddock Lovegrass	Native	31/03/1894
Eragrostis mexicana	Mexican Lovegrass	Exotic	20/03/2009
Eragrostis parviflora	Weeping Lovegrass	Native	16/03/2003
Eragrostis sororia		Native	5/04/1969
Eragrostis spp.	A Lovegrass	Exotic	20/03/2009
Eriochloa pseudoacrotricha	Early Spring Grass	Native	16/07/2009
Festuca elatior	Tall Fescue	Exotic	25/05/2006
Glyceria australis	Australian Sweetgrass	Native	17/05/1992
Hainardia cylindrica	Common Barbgrass	Exotic	4/03/2008
Hemarthria uncinata	Matgrass	Native	22/10/2004
Hemarthria uncinata var. uncinata		Native	2/12/1998
Holcus lanatus	Yorkshire Fog	Exotic	14/01/2005
Hordeum distichon	Two Row Barley	Exotic	2/10/1967
Hordeum glaucum	Northern Barley Grass	Exotic	2/10/1967
Hordeum leporinum	Barley Grass	Exotic	7/12/1987
Hyparrhenia hirta	Coolatai Grass	Exotic	1/06/2009
Imperata cylindrica	Blady Grass	Native	17/09/2008
Joycea pallida	Silvertop Wallaby Grass	Native	13/01/1999
Lachnagrostis aemula	Blowngrass	Native	20/03/2009
Lachnagrostis filiformis		Native	03/11/1894
Lamarckia aurea	Goldentop	Exotic	23/10/1969
Leptochloa ciliolata	Fine canegrass	Native	4/03/2008
Lolium loliaceum	Stiff Ryegrass	Exotic	29/10/1966

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Lolium multiflorum	Italian Ryegrass	Exotic	20/10/2004
Lolium perenne	Perennial Ryegrass	Exotic	1/06/2009
Lolium rigidum	Wimmera Ryegrass	Exotic	17/09/2008
Lolium spp.	A Ryegrass	Exotic	17/09/2008
Megathyrsus maximus		Exotic	14/03/2008
Melinis repens	Red Natal Grass	Exotic	17/09/2008
Microlaena stipoides	Weeping Grass	Native	23/07/2009
Microlaena stipoides var. stipoides	Weeping Grass	Native	6/06/2008
Nassella neesiana	Chilean Needle Grass	Exotic	1/06/2009
Notodanthonia longifolia	Long-leaved Wallaby Grass	Native	1/02/2005
Notodanthonia semiannularis	Tasmanian Wallaby Grass	Native	13/02/1996
Oplismenus aemulus		Native	20/03/2009
Oplismenus imbecillis		Native	16/07/2009
Panicum bisulcatum	Black-seeded Panic	Native	27/11/2003
Panicum decompositum var. tenuius		Native	12/04/1987
Panicum effusum	Hairy Panic	Native	30/04/1894
Panicum maximum var. trichoglume	Green Panic	Exotic	13/03/2008
Panicum miliaceum	French Millet	Exotic	1/06/1968
Panicum obseptum	White Water Panic	Native	24/03/1967
Panicum simile	Two-colour Panic	Native	5/09/2007
Panicum spp.	Panicum	Native	1/06/2009
Parapholis incurva	Coast Barb Grass	Exotic	26/10/1971
Paspalidium albovillosum		Native	13/01/1999
Paspalidium aversum	Bent Summer Grass	Native	2/12/1998
Paspalidium criniforme		Native	19/04/2004
Paspalidium distans		Native	31/03/1898
Paspalidium gracile	Slender Panic	Native	12/10/2005
Paspalidium spp.		Native	6/06/2003
Paspalum dilatatum	Paspalum	Exotic	14/07/2009
Paspalum distichum	Water Couch	Native	30/07/2008
Paspalum notatum	Bahia Grass	Exotic	4/04/1993
Paspalum orbiculare	Ditch Millet	Native	4/12/1998
Paspalum quadrifarium	Tussock Paspalum	Exotic	5/09/2007
Paspalum urvillei	Vasey Grass	Exotic	20/03/2009
Paspalum vaginatum	Salt-water Couch	Native	02/03/1890
Pennisetum alopecuroides	Swamp Foxtail	Native	14/03/2003
Pennisetum clandestinum	Kikuyu Grass	Exotic	1/06/2009
Pennisetum setaceum	Fountain Grass	Exotic	5/09/2007
Pennisetum villosum	Feathertop	Exotic	25/05/2006
Phalaris aquatica	Phalaris	Exotic	20/10/2004
Phalaris minor	Lesser Canary Grass	Exotic	25/05/2006
Phalaris spp.		Exotic	15/11/2006
Phragmites australis	Common Reed	Native	20/03/2009
Phyllostachys aurea	Fishpole Bamboo	Exotic	14/11/2005
Phyllostachys spp.		Exotic	5/09/2007
Plinthanthesis paradoxa		Native	14/11/1935
Poa affinis		Native	26/03/2007
Poa annua	Winter Grass	Exotic	20/10/2004
Poa labillardierei var. labillardierei	Tussock	Native	30/11/1894
Poa meionectes		Native	16/11/1983

Scientific Name	Common Name	Native or Exotic	Last Sited
Poa pratensis	Kentucky Bluegrass	Exotic	14/03/2003
Poa sieberiana	Snowgrass	Native	13/01/2004
Poa spp.		Exotic	15/11/2006
Polypogon lutosus	Perennial Beardgrass	Exotic	31/10/1992
Polypogon monspeliensis	Annual Beardgrass	Exotic	20/10/2004
Pseudoraphis paradoxa	Slender Mudgrass	Native	15/04/1968
Rostraria cristata	Annual Cat's Tail	Exotic	20/10/1894
Sacciolepis indica	Indian Cupscale Grass	Native	31/03/1898
Secale cereale	Cereal Rye	Exotic	3/08/1968
Setaria italica	Foxtail Millet	Exotic	24/02/1962
Setaria parviflora		Exotic	1/06/2009
Setaria pumila	Pale Pigeon Grass	Exotic	13/01/2004
Setaria sphacelata	South African Pigeon Grass	Exotic	13/03/2008
Setaria spp.		Exotic	22/10/2004
Sorghum bicolor	Sorghum	Exotic	1/06/1968
Sorghum bicolor subsp. drummondii		Exotic	1/06/1968
Sorghum halepense	Johnson Grass	Exotic	20/03/2009
Sorghum leiocladum	Wild Sorghum	Native	15/03/2005
Sporobolus africanus	Parramatta Grass	Exotic	14/07/2009
Sporobolus creber	Slender Rat's Tail Grass	Native	9/07/2009
Sporobolus elongatus	Slender Rat's Tail Grass	Native	25/05/2006
Sporobolus fertilis	Giant Parramatta Grass	Exotic	20/03/2009
Sporobolus indicus	Parramatta Grass	Exotic	23/07/2009
Sporobolus spp.	Rat's Tail Couch	Exotic	15/11/2006
Sporobolus virginicus		Native	31/03/1898
Sporobolus virginicus var. minor	Marine Couch	Native	31/03/1899
Stenotaphrum secundatum	Buffalo Grass	Exotic	1/06/2009
Tetrarrhena juncea	Wiry Ricegrass	Native	27/02/2004
Themeda australis	Kangaroo Grass	Native	23/07/2009
Tragus australianus	Small Burrgrass	Native	13/02/2001
Triticum aestivum	Wheat	Exotic	29/10/1966
Urochloa panicoides	Urochloa Grass	Exotic	16/03/2003
Urochloa piligera	Hairy Armgrass	Native	8/02/1981
Vulpia bromoides	Squirrel Tail Fesque	Exotic	18/06/2003
Vulpia myuros	Rat's Tail Fescue	Exotic	25/10/2004
Vulpia spp.	Rat's-tail Fescue	Exotic	22/12/2003
Zea mays	Maize	Exotic	1/06/1968
Zoysia macrantha	Prickly Couch	Native	30/01/1964
Zygochloa paradoxa	Sandhill Canegrass	Native	20/02/2001
Podocarpus spinulosus	Spiny-leaf Podocarp	Native	17/09/2008
Comesperma ericinum	Pyramid Flower	Native	27/02/2004
Comesperma sphaerocarpum		Native	09/11/1889
Comesperma volubile		Native	31/10/1848
Polygala japonica	Dwarf Milkwort	Native	23/07/2009
Polygala myrtifolia		Exotic	19/09/1964
Polygala virgata		Exotic	17/09/2008
Acetosa sagittata	Rambling Dock	Exotic	20/03/2009
Acetosella vulgaris	Sheep Sorrel	Exotic	14/03/2008
Emex australis	Spiny Emex	Exotic	4/03/2008
Fallopia convolvulus	Black Bindweed	Exotic	21/10/1967

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Muehlenbeckia gracillima	Slender Lignum	Native	31/12/1889
Persicaria decipiens	Slender Knotweed	Native	30/07/2008
Persicaria hydropiper	Water Pepper	Native	20/03/2009
Persicaria lapathifolia	Pale Knotweed	Native	13/03/2008
Persicaria orientalis	Princes Feathers	Native	31/03/1893
Persicaria praetermissa		Native	14/03/2008
Persicaria prostrata	Creeping Knotweed	Native	30/06/1895
Persicaria spp.	Knotweed	Exotic	22/12/2005
Persicaria strigosa		Native	5/09/2007
Persicaria subsessilis	Hairy Knotweed	Native	20/03/2009
Polygonum arenastrum	Wireweed	Exotic	14/11/2005
Polygonum aviculare	Wireweed	Exotic	13/03/2008
Polygonum plebeium	Small Knotweed	Native	6/07/1968
Rumex brownii	Swamp Dock	Native	20/03/2009
Rumex conglomeratus	Clustered Dock	Exotic	28/08/2004
Rumex crispus	Curled Dock	Exotic	16/11/1893
Rumex obtusifolius	Broadleaf Dock	Exotic	20/10/2004
Rumex pulcher	Fiddle Dock	Exotic	14/01/2005
Rumex spp.	Dock	Exotic	22/10/2004
Rumex tenax	Shiny Dock	Native	30/11/1895
Microsorum scandens	Fragrant Fern	Native	24/05/1897
Platycerium bifurcatum	Elkhorn Fern	Native	1/03/2002
Pyrrosia rupestris	Rock Felt Fern	Native	16/02/1894
Eichhornia crassipes	Water Hyacinth	Exotic	18/03/1975
Calandrinia pickeringii		Native	15/12/2005
Portulaca oleracea	Pigweed	Native	20/03/2009
Potamogeton cheesemanii		Native	31/10/1964
Potamogeton ochreatus	Blunt Pondweed	Native	13/01/2004
Potamogeton octandrus		Native	21/06/1972
Potamogeton sulcatus		Native	10/12/1987
Potamogeton tricarinatus	Floating Pondweed	Native	13/01/2004
Samolus repens	Creeping Brookweed	Native	20/10/2004
Samolus valerandi	Common Brookweed	Native	10/04/1993
Banksia aemula	Wallum Banksia	Native	4/03/2008
Banksia ericifolia	Heath-leaved Banksia	Native	17/09/2008
Banksia ericifolia subsp. ericifolia		Native	8/04/1905
Banksia integrifolia	Coast Banksia	Native	17/09/2008
Banksia integrifolia subsp. integrifolia	Coastal Banksia	Native	13/03/1899
Banksia marginata	Silver Banksia	Native	5/09/2007
Banksia oblongifolia	Fern-leaved Banksia	Native	5/09/2007
Banksia robur	Swamp Banksia	Native	31/03/1900
Banksia serrata	Old-man Banksia	Native	17/09/2008
Banksia spinulosa	Hairpin Banksia	Native	17/09/2008
Banksia spinulosa var. spinulosa		Native	2/12/1998
Conospermum ellipticum		Native	5/09/2007
Conospermum longifolium	Long Leaf Smoke-bush	Native	1/08/2003
Conospermum longifolium subsp. angustifolium		Native	27/08/1887
Conospermum longifolium subsp. longifolium		Native	17/09/2008
Conospermum taxifolium	Variable Smoke-bush	Native	4/03/2008
Conospermum tenuifolium	Sprawling Smoke-bush	Native	31/10/1915

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Grevillea arenaria subsp. arenaria	Sand Grevillea	Native	4/03/2008
Grevillea buxifolia	Grey Spider Flower	Native	30/09/1896
Grevillea diffusa		Native	31/10/1894
Grevillea diffusa subsp. constablei		Native	5/09/2007
Grevillea diffusa subsp. diffusa		Native	7/10/2001
Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	Native	4/05/2001
Grevillea linearifolia	Linear-leaf Grevillea	Native	27/02/2004
Grevillea longifolia		Native	30/09/1898
Grevillea mucronulata		Native	31/08/1887
Grevillea oleoides	Red Spider Flower	Native	31/10/1894
Grevillea parviflora		Native	31/10/1898
Grevillea parviflora subsp. parviflora	Small-flower Grevillea	Native	30/11/1899
Grevillea phylicoides	Grey Spider Flower	Native	31/08/1915
Grevillea robusta	Silky Oak	Native	1/06/2009
Grevillea sericea	Pink Spider Flower	Native	17/09/2008
Grevillea sericea subsp. sericea		Native	30/09/1893
Grevillea speciosa	Red Spider Flower	Native	1/08/2003
Grevillea sphacelata	Grey Spider Flower	Native	4/03/2008
Grevillea spp.		Native	1/06/2009
Hakea dactyloides	Finger Hakea	Native	17/09/2008
Hakea gibbosa		Native	4/03/2008
Hakea laevipes		Native	1/08/2003
Hakea microcarpa	Small-fruited Hakea	Native	20/04/2001
Hakea propinqua		Native	31/12/1889
Hakea salicifolia	Willow-leaved Hakea	Native	19/11/2004
Hakea salicifolia subsp. angustifolia		Native	19/08/1967
Hakea salicifolia subsp. salicifolia		Native	22/09/1888
Hakea sericea	Needlebush	Native	30/09/1895
Hakea teretifolia	Needlebush	Native	17/09/2008
Hakea teretifolia subsp. teretifolia		Native	3/01/1951
Isopogon anemonifolius	Broad-leaf Drumsticks	Native	17/09/2008
Isopogon anethifolius	Narrow-leaf Drumsticks	Native	1/08/2003
Isopogon dawsonii	Nepean Conebush	Native	5/07/1983
Lambertia formosa	Mountain Devil	Native	5/09/2007
Lomatia myricoides	River Lomatia	Native	31/10/1893
Lomatia silaifolia	Crinkle Bush	Native	07/01/1888
Persoonia acerosa	Needle Geebung	Native	14/02/1990
Persoonia chamaepitys	Mountain Geebung	Native	24/11/1893
Persoonia hirsuta	Hairy Geebung	Native	09/11/1898
Persoonia lanceolata	Lance Leaf Geebung	Native	17/09/2008
Persoonia laurina	Laurel Geebung	Native	7/08/2002
Persoonia laurina subsp. intermedia		Native	28/11/1993
Persoonia laurina subsp. laurina		Native	31/12/1896
Persoonia levis	Broad-leaved Geebung	Native	5/09/2007
Persoonia levis x linearis		Native	4/08/1968
Persoonia linearis	Narrow-leaved Geebung	Native	5/09/2007
Persoonia mollis subsp. leptophylla		Native	4/03/2008
Persoonia mollis subsp. maxima		Native	27/02/2004
Persoonia mollis subsp. mollis		Native	4/03/2008
Persoonia mollis subsp. nectens		Native	2/10/2002

Scientific Name	Common Name	Native or Exotic	Last Sited
Persoonia nutans	Nodding Geebung	Native	30/06/1897
Persoonia oblongata		Native	17/09/2008
Persoonia pinifolia	Pine-leaved Geebung	Native	25/02/1899
Petrophile pedunculata		Native	26/12/1898
Petrophile pulchella	Conesticks	Native	4/03/2008
Petrophile sessilis		Native	17/09/2008
Stenocarpus salignus	Scrub Beefwood	Native	1/03/2002
Symphionema paludosum		Native	1/10/1976
Telopea speciosissima	Waratah	Native	1/08/2003
Xylomelum pyriforme	Woody Pear	Native	5/09/2007
Psilotum nudum	Skeleton Fork-Fern	Native	27/02/2004
Pteris tremula	Tender Brake	Native	27/02/2004
Clematis aristata	Old Man's Beard	Native	17/07/2008
Clematis glycinoides	Headache Vine	Native	30/11/1892
Clematis glycinoides var. glycinoides		Native	6/06/2008
Ranunculus inundatus	River Buttercup	Native	30/07/2008
Ranunculus lappaceus	Common Buttercup	Native	16/11/1889
Ranunculus muricatus	Sharp Buttercup	Exotic	3/10/1963
Ranunculus plebeius	Forest Buttercup	Native	13/02/1966
Ranunculus repens	Creeping Buttercup	Exotic	4/03/2008
Ranunculus sceleratus	Celery Buttercup	Exotic	25/10/2004
Ranunculus sessiliflorus	Small-flowered Buttercup	Native	27/09/1987
Ranunculus sessiliflorus var. sessiliflorus		Native	5/08/2003
Ranunculus spp.		Native	2/10/2002
Reseda luteola	Weld	Exotic	26/06/1968
Baloskion gracile		Native	31/10/1894
Baloskion tetraphyllum subsp. meiostachyum	Plume Rush	Native	5/09/2007
Chordifex dimorphus		Native	1/10/1966
Chordifex fastigiatus		Native	5/09/2007
Empodisma minus		Native	20/10/2004
Eurychorda complanata		Native	23/04/1962
Hypolaena fastigiata		Native	5/09/2007
Leptocarpus tenax		Native	1/08/2003
Lepyrodia muelleri		Native	7/08/2002
Lepyrodia scariosa		Native	5/09/2007
Lepyrodia verruculosa		Native	27/01/1964
Alphitonia excelsa	Red Ash	Native	18/12/2007
Cryptandra amara	Bitter Cryptandra	Native	13/07/1887
Cryptandra amara var. amara		Native	25/05/1993
Cryptandra amara var. longiflora		Native	30/09/1964
Cryptandra ericoides	Heathy Cryptandra	Native	25/02/1899
Cryptandra propinqua		Native	31/05/1895
Cryptandra spinescens		Native	04/08/1894
Pomaderris andromedifolia subsp. andromedifolia		Native	31/10/1895
Pomaderris aspera	Hazel Pomaderris	Native	17/11/1894
Pomaderris brunnea	Brown Pomaderris	Native	31/08/1894
Pomaderris discolor		Native	25/10/2004
Pomaderris elliptica subsp. elliptica		Native	4/03/2008
Pomaderris eriocephala		Native	14/01/2002
Pomaderris ferruginea		Native	02/05/1896

Scientific Name	Common Name	Native or Exotic	Last Sited
Pomaderris intermedia		Native	30/09/1896
Pomaderris lanigera	Woolly Pomaderris	Native	17/07/2008
Pomaderris ledifolia	Sydney Pomaderris	Native	27/09/1987
Pomaderris ligustrina	Privet Pomaderris	Native	7/08/2002
Pomaderris ligustrina subsp. ligustrina		Native	31/10/1895
Pomaderris prunifolia	P. prunifolia in the Parramatta, Auburn, Strathfield and Bankstown Local Government Areas	Native	5/09/2007
Pomaderris vellea		Native	28/05/1996
Rhamnus alaternus	Buckthorn	Exotic	1/06/2009
Acaena agnipila	Hairy Sheep's Burr	Native	23/10/1965
Acaena echinata	Sheep's Burr	Native	25/09/1965
Acaena echinata var. subglabricalyx		Native	31/10/1934
Potentilla indica	Indian Strawberry	Exotic	29/11/1969
Rosa rubiginosa	Sweet Briar	Exotic	14/03/2008
Rosa spp.		Exotic	15/11/2006
Rubus anglocandicans	Blackberry	Exotic	9/12/1985
Rubus fruticosus sp. agg.	Blackberry complex	Exotic	1/06/2009
Rubus parvifolius	Native Raspberry	Native	21/10/1893
Rubus ulmifolius	Blackberry	Exotic	7/08/2002
Asperula conferta	Common Woodruff	Native	19/09/1886
Galium aparine	Goosegrass	Exotic	17/09/2008
Galium binifolium		Native	10/12/1985
Galium gaudichaudii	Rough Bedstraw	Native	14/01/2005
Galium migrans		Native	13/03/2008
Galium propinquum	Maori Bedstraw	Native	16/07/2009
Galium tricornutum	Three-horned Bedstraw	Exotic	6/06/2008
Morinda jasminoides	Sweet Morinda	Native	1/03/2002
Opercularia aspera	Coarse Stinkweed	Native	5/09/2007
Opercularia diphylla	Stinkweed	Native	23/07/2009
Opercularia hispida	Hairy Stinkweed	Native	4/11/1966
Opercularia spp.		Native	13/01/1999
Opercularia varia	Variable Stinkweed	Native	6/06/2003
Pomax umbellata	Pomax	Native	17/09/2008
Richardia brasiliensis	Mexican Clover	Exotic	5/09/2007
Richardia humistrata		Exotic	25/10/2004
Richardia spp.		Exotic	1/06/2009
Richardia stellaris		Exotic	14/07/2009
Sherardia arvensis	Field Madder	Exotic	27/09/1987
Asterolasia buxifolia		Native	4/03/2008
Asterolasia correifolia		Native	30/09/1888
Boronia anemonifolia subsp. variabilis	Coast Boronia	Native	31/08/1894
Boronia floribunda	Pale-pink Boronia	Native	30/09/1889
Boronia fraseri		Native	31/08/1894
Boronia ledifolia	Sydney Boronia	Native	01/10/1894
Boronia mollis	Soft Boronia	Native	30/09/1897
Boronia pinnata		Native	27/02/2004
Boronia polygalifolia	Dwarf Boronia	Native	30/11/1884
Boronia serrulata	Rose Boronia	Native	4/03/2008
Boronia thujona		Native	31/12/1961
Correa reflexa	Native Fuschia	Native	5/09/2007

Scientific Name	Common Name	Native or Exotic	Last Sited
Correa reflexa var. reflexa	Native Fuschia	Native	4/03/2008
Crowea exalata		Native	31/05/1897
Crowea saligna		Native	1/03/2002
Eriostemon australasius		Native	17/09/2008
Geijera salicifolia	Brush Wilga	Native	21/05/1996
Leionema dentatum	Toothed Phebalium	Native	1/03/2002
Leionema diosmeum		Native	5/09/1945
Melicope micrococca	Hairy-leaved Doughwood	Native	28/05/1991
Nematolepis squamea subsp. squamea	Satinwood	Native	28/09/1889
Phebalium squamulosum	Scaly Phebalium	Native	7/08/2002
Phebalium squamulosum subsp. argenteum		Native	30/09/1921
Phebalium squamulosum subsp. squamulosum		Native	30/06/1894
Philotheca hispidula		Native	01/10/1891
Philotheca myoporoides	Long-leaf Wax Flower	Native	17/07/2008
Philotheca myoporoides subsp. myoporoides		Native	30/09/1897
Philotheca reichenbachii		Native	22/09/1888
Philotheca salsolifolia		Native	14/08/2003
Philotheca salsolifolia subsp. salsolifolia		Native	31/10/1956
Philotheca scabra subsp. scabra		Native	31/08/1893
Zieria compacta		Native	11/08/1994
Zieria cytisoides	Downy Zieria	Native	30/09/1894
Zieria laevigata	Smooth Zieria	Native	14/06/1990
Zieria pilosa	Pilose-leafed Zieria	Native	1/03/2002
Zieria smithii	Sandfly Zieria	Native	21/02/2003
Populus alba	White Poplar	Exotic	15/11/2006
Populus nigra	Lombardy Poplar	Exotic	25/10/2004
Populus spp.		Exotic	14/08/2003
Salix alba	White Willow	Exotic	20/03/2009
Salix babylonica	Weeping Willow	Exotic	20/03/2009
Salix cinerea	Pussy Willow	Exotic	26/03/1971
Salix fragilis var. fragilis	Crack Willow	Exotic	13/03/2008
Salix humboldtiana	Pencil Willow	Exotic	19/11/2004
Salix spp.		Exotic	22/12/2005
Salvinia molesta		Exotic	7/08/2002
Choretrum candollei	White Sour Bush	Native	21/08/1940
Exocarpos cupressiformis	Cherry Ballart	Native	17/09/2008
Exocarpos strictus	Dwarf Cherry	Native	30/11/1898
Leptomeria acida	Sour Currant Bush	Native	23/01/1898
Omphacomeria acerba		Native	31/08/1894
Santalum obtusifolium	Sandalwood	Native	30/12/1966
Thesium australe	Austral Toadflax	Native	19/10/1803
Acer negundo	Box Elder	Exotic	20/03/2009
Alectryon subcinereus	Wild Quince	Native	1/09/2005
Cardiospermum grandiflorum	Balloon Vine	Exotic	17/07/2008
Cupaniopsis anacardioides	Tuckeroo	Native	17/09/2008
Dodonaea multijuga		Native	31/10/1899
Dodonaea pinnata		Native	27/02/2004
Dodonaea triquetra	Large-leaf Hop-bush	Native	17/07/2008
Dodonaea truncatiales	Angular Hop-bush	Native	17/07/2008
Dodonaea viscosa	Sticky Hop-bush	Native	30/11/2000

Scientific Name	Common Name	Native or Exotic	Last Sited
Dodonaea viscosa subsp. angustifolia		Native	25/10/2004
Dodonaea viscosa subsp. angustissima	Narrow-leaf Hop-bush	Native	14/03/2003
Dodonaea viscosa subsp. cuneata	Wedge-leaf Hop-bush	Native	13/03/2008
Dodonaea viscosa subsp. cuneata x spatulata		Native	4/03/2008
Dodonaea viscosa subsp. spatulata	Broad-leaf Hopbush	Native	20/10/2004
Guioa semiglauca	Guioa	Native	4/03/2008
Planchonella australis	Black Apple	Native	25/12/1888
Lygodium japonicum		Exotic	4/08/2000
Schizaea bifida	Forked Comb Fern	Native	4/03/2008
Schizaea dichotoma	Branched Comb Fern	Native	1/03/2002
Schizaea rupestris		Native	31/01/1897
Euphrasia collina subsp. speciosa		Native	22/09/1888
Glossostigma elatinoides		Native	31/10/1998
Gratiola pedunculata		Native	19/01/2004
Gratiola peruviana	Australian Brooklime	Native	31/12/1907
Kickxia elatine subsp. elatine	Woolly Toadflax	Exotic	7/03/1993
Kickxia spuria subsp. integrifolia	Round-leaved Toadflax	Exotic	4/03/2008
Limosella australis	Australian Mudwort	Native	12/10/1998
Linaria incarnata		Exotic	3/11/1966
Misopates orontium	Lesser Snapdragon	Exotic	4/06/1975
Nemesia strumosa		Exotic	13/10/1970
Orobanche minor	Broomrape	Exotic	14/10/1999
Parentucellia latifolia	Red Bartsia	Exotic	28/10/1990
Verbascum spp.		Native	28/08/2004
Verbascum virgatum	Twiggy Mullein, Green Mullein	Exotic	20/10/2004
Selago corymbosa		Exotic	21/10/1993
Selaginella uliginosa	Swamp Selaginella	Native	31/03/1897
Ailanthus altissima	Tree of Heaven	Exotic	20/03/2009
Smilax glyciphylla	Sweet Sarsparilla	Native	17/09/2008
Cestrum parqui	Green Cestrum	Exotic	20/03/2009
Cestrum spp.		Exotic	6/06/2003
Cyphanthera scabrella		Native	31/08/1897
Cyphomandra betacea	Tamarillo	Exotic	10/10/1941
Datura ferox	Fierce Thornapple	Exotic	25/05/1968
Datura spp.		Native	14/01/2005
Datura stramonium	Common Thornapple	Exotic	1/06/2009
Duboisia myoporoides	Corkwood	Native	26/11/2007
Lycium barbarum	Chinese Boxthorn	Exotic	19/03/1966
Lycium ferocissimum	African Boxthorn	Exotic	1/06/2009
Lycopersicon esculentum	Tomato	Exotic	27/04/2004
Nicotiana suaveolens	Native Tobacco	Native	24/09/1898
Petunia spp.		Native	25/10/2004
Physalis ixocarpa	Ground Cherry	Exotic	18/05/1971
Solanum americanum	Glossy Nightshade	Native	16/07/2009
Solanum aviculare	Kangaroo Apple	Native	1/08/2003
Solanum campanulatum		Native	30/09/1897
Solanum chenopodioides	Whitetip Nightshade	Exotic	20/03/2009
Solanum cinereum	Narrawa Burr	Native	19/01/2004
Solanum linnaeanum	Apple of Sodom	Exotic	20/03/2009
Solanum mauritianum	Wild Tobacco Bush	Exotic	6/06/2008

Scientific Name	Common Name	Native or Exotic	Last Sited
Solanum nigrum	Black-berry Nightshade	Exotic	1/06/2009
Solanum opacum	Green-berry Nightshade	Native	6/06/2008
Solanum physalifolium var. nitidibaccatum		Exotic	25/10/2004
Solanum prinophyllum	Forest Nightshade	Native	16/07/2009
Solanum pseudocapsicum	Madeira Winter Cherry	Exotic	20/03/2009
Solanum pungetium	Eastern Nightshade	Native	30/11/1899
Solanum radicans		Exotic	26/04/1964
Solanum sisymbriifolium		Exotic	24/01/2005
Solanum spp.		Native	20/03/2009
Solanum stelligerum	Devil's Needles	Native	12/03/1976
Solanum vescum		Native	18/10/1888
Sparganium subglobosum		Native	31/07/1888
Stackhousia muricata	Stackhousia	Native	13/03/2008
Stackhousia viminea	Slender Stackhousia	Native	23/07/2009
Brachychiton acerifolius	Illawarra Flame Tree	Native	2/07/1998
Brachychiton populneus	Kurrajong	Native	14/08/2003
Brachychiton populneus subsp. populneus		Native	1/06/2009
Lasiopetalum ferrugineum		Native	30/09/1895
Lasiopetalum ferrugineum var. ferrugineum		Native	5/09/2007
Lasiopetalum joyceae		Native	27/02/2004
Lasiopetalum macrophyllum		Native	1/03/2002
Lasiopetalum parviflorum		Native	30/09/1803
Lasiopetalum rufum		Native	30/09/1895
Rulingia dasyphylla	Kerrawang	Native	12/09/1893
Rulingia pannosa		Native	7/11/1953
Seringia arborescens		Native	26/07/1982
Stylidium graminifolium	Grass Triggerplant	Native	17/09/2008
Stylidium laricifolium	Tree Triggerplant	Native	4/03/2008
Stylidium productum		Native	27/02/2004
Stylidium spp.		Native	17/07/2008
Symplocos stawellii	White Hazelwood	Native	14/06/1987
Christella dentata		Native	1/03/2002
Pimelea curviflora var. subglabrata		Native	20/02/2002
Pimelea glauca		Native	4/03/2008
Pimelea linifolia	Slender Rice Flower	Native	24/04/2006
Pimelea linifolia subsp. linifolia		Native	31/05/1898
Pimelea linifolia subsp. linoides		Native	28/11/1995
Pimelea spicata	Spiked Rice-flower	Native	31/10/1886
Tropaeolum majus	Nasturtium	Exotic	5/09/2007
Typha domingensis	Narrow-leaved Cumbungi	Native	14/04/2004
Typha orientalis	Broad-leaved Cumbungi	Native	14/03/2008
Typha spp.		Native	15/11/2006
Celtis australis		Exotic	29/04/1971
Celtis occidentalis	Hackberry	Exotic	13/03/2008
Trema tomentosa var. viridis	Native Peach	Native	14/03/2008
Parietaria debilis	Native Pellitory	Native	6/10/1969
Parietaria judaica	Pellitory	Exotic	5/09/2007
Urtica incisa	Stinging Nettle	Native	22/10/2004
Urtica urens	Small Nettle	Exotic	25/10/2004
Schelhammera undulata		Native	4/11/1961

Scientific Name	Common Name	Native or Exotic	Last Sited
Glandularia aristigera	Glandularia	Exotic	14/03/2008
Lantana camara	Lantana	Exotic	1/06/2009
Lantana camara var. camara		Exotic	15/09/1966
Lantana montevidensis	Creeping Lantana	Exotic	20/03/2009
Lantana spp.		Exotic	25/10/2004
Verbena bonariensis	Purpletop	Exotic	21/10/1893
Verbena caracasana	Shore Verbain	Exotic	16/03/1995
Verbena gaudichaudii	Verbena	Native	03/03/1894
Verbena incompta		Exotic	16/03/1995
Verbena litoralis		Exotic	13/03/2008
Verbena officinalis	Common Verbena	Exotic	4/03/2008
Verbena quadrangularis		Exotic	1/06/2009
Verbena rigida var. rigida	Veined Verbena	Exotic	1/06/2009
Verbena spp.		Native	17/07/2008
Hybanthus monopetalus	Slender Violet-bush	Native	19/11/1966
Hybanthus vernonii		Native	1/03/2002
Hybanthus vernonii subsp. vernonii		Native	26/10/2003
Melicytus dentatus	Tree Violet	Native	25/10/2004
Viola banksii		Native	14/10/1899
Viola hederacea	Ivy-leaved Violet	Native	13/01/2004
Viola odorata	Sweet Violet	Exotic	26/06/1985
Viola sieberiana		Native	07/08/1898
Notothixos subaureus	Golden Mistletoe	Native	30/04/1925
Cayratia clematidea	Slender Grape	Native	17/09/2008
Cissus antarctica	Water Vine	Native	31/07/1802
Cissus hypoglauca	Giant Water Vine	Native	31/01/1805
Clematicissus opaca	Pepper Vine	Native	20/01/1992
Tasmannia insipida	Brush Pepperwood	Native	1/03/2002
Xanthorrhoea arborea		Native	20/10/2004
Xanthorrhoea concava		Native	6/11/1914
Xanthorrhoea fulva		Native	27/07/1967
Xanthorrhoea media		Native	17/09/2008
Xanthorrhoea minor subsp. minor		Native	30/11/1897
Xanthorrhoea resinosa		Native	1/08/2003
Xanthorrhoea spp.		Native	4/05/2007
Xyris bracteata		Native	27/02/2004
Xyris gracilis		Native	24/02/1970
Xyris juncea	Dwarf Yellow-eye	Native	31/01/1993
Macrozamia spiralis		Native	5/09/2007
Hedychium gardnerianum	Ginger Lily	Exotic	17/09/2008
Tribulus micrococcus	Yellow Vine, Spineless Caltrop	Native	4/03/2008
Tribulus terrestris	Cat-head	Exotic	5/04/1969

Table F2 List of threatened flora species occurring in Liverpool and Camden LGAs.

Species Name	Common Name	*TSC Act 1995 Classification*	Likelihood of Occurrence
Marsdenia viridiflora subsp. viridiflora	Marsdenia viridiflora R. Br. subsp. viridiflora population in the Bankstown, Blacktown, Camden, Campbelltown,	Endangered Population	Present

Species Name	Common Name	*TSC Act 1995 Classification*	Likelihood of Occurrence
	Fairfield, Holroyd, Liverpool and Penrith local government areas		
Cynanchum elegans	White-flowered Wax Plant	Endangered	Present
Allocasuarina glareicola		Endangered	Possible
Leucopogon exolasius	Woronora Beard-heath	Vulnerable	Unlikely
Leucopogon fletcheri subsp. fletcheri		Endangered	Unlikely
Dillwynia tenuifolia	Dillwynia tenuifolia, Kemps Creek	Endangered Population	Present
Pultenaea parviflora		Endangered	Present
Pultenaea pedunculata	Matted Bush-pea	Endangered	Present
Acacia pubescens	Downy Wattle	Vulnerable	Present
Gyrostemon thesioides		Endangered	Absent
Callistemon linearifolius	Netted Bottle Brush	Vulnerable	Absent
Eucalyptus benthamii	Camden White Gum	Vulnerable	Present
Eucalyptus nicholii	Narrow-leaved Black Peppermint	Vulnerable	Absent
Eucalyptus scoparia	Wallangarra White Gum	Endangered	Present
Melaleuca deanei	Deane's Paperbark	Vulnerable	Possible
Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Unlikely
Diuris aequalis	Buttercup Doubletail	Endangered	Unlikely
Pterostylis nigricans	Dark Greenhood	Vulnerable	Unlikely
Pterostylis saxicola	Sydney Plains Greenhood	Endangered	Present
Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	Vulnerable	Highly Likely
Grevillea parviflora subsp. parviflora	Small-flower Grevillea	Vulnerable	Likely
Pomaderris brunnea	Brown Pomaderris	Vulnerable	Possible
Persoonia hirsuta	Hairy Geebung	Endangered	Possible
Persoonia nutans	Nodding Geebung	Endangered	Likely
Pimelea spicata	Spiked Rice-flower	Endangered	Possible

Appendix G

Threatened Flora Likelihood of Occurrence Table

The table below shows species listed under either the *TSC Act* or the *EPBC Act*.

Species Name	Common Name	Habitat	*EPBC Act 2000*	*TSC Act 1995 Classification*	Likelihood of Occurrence
Marsdenia viridiflora subsp. viridiflora	Marsdenia viridiflora R. Br. subsp. viridiflora population in the Bankstown, Blacktown, Camden, Campbelltown, Fairfield, Holroyd, Liverpool and Penrith local government areas	Grows in vine thickets and open shale woodland.	-	Endangered Population	Present
Cynanchum elegans	White-flowered Wax Plant	Restricted to eastern NSW where it is distributed from Brunswick Heads on the north coast to Gerroa in the Illawarra region. Usually occurs on the edge of dry rainforest vegetation. Other associated vegetation types include littoral rainforest; Coastal Tea-tree *Leptospermum laevigatum* – Coastal Banksia *Banksia integrifolia* subsp. *integrifolia* coastal scrub; Forest Red Gum *Eucalyptus tereticornis* aligned open forest and woodland; Spotted Gum *Eucalyptus maculata* aligned open forest and woodland; and Bracelet Honeymyrtle *Melaleuca armillaris* scrub to open scrub.	Endangered	Endangered	Present
Allocasuarina glareicola		It grows in clay soils derived from alluvial gravels in woodland. Responds to fire by coppicing densely from a lignotuber.	Endangered	Endangered	Possible
Leucopogon exolasius	Woronora Beard-heath	Found along the upper Georges River area and in Heathcote National Park. The plant occurs in woodland on sandstone.	Vulnerable	Vulnerable	Unlikely
Leucopogon fletcheri subsp. fletcheri		Restricted to north-western Sydney between St Albans in the north and Annangrove in the south, within the local government areas of Hawkesbury, Baulkham Hills and Blue Mountains. Occurs in dry eucalypt woodland or in shrubland on clayey lateritic soils, generally on flat to gently sloping terrain along ridges and spurs.	-	Endangered	Unlikely

Dillwynia tenuifolia	Dillwynia tenuifolia, Kemps Creek	The core distribution is the Cumberland Plain from Windsor to Penrith east to Deans Park. Other populations in western Sydney are recorded from Voyager Point and Kemps Creek in the Liverpool LGA, Castlereagh Ironbark Forest to Castlereagh Scribbly Gum Woodland.	-	Endangered Population	Present
Pultenaea parviflora		Endemic to the Cumberland Plain. Core distribution is from Windsor to Penrith and east to Dean Park. Outlier populations are recorded from Kemps Creek and Wilberforce.	Vulnerable	Endangered	Present
Pultenaea pedunculata	Matted Bush-pea	In NSW, it is represented by three disjunct populations, in the Cumberland Plains in Sydney, the coast between Tathra and Bermagui and the Windellama area. Occurs in a range of habitats. NSW populations are generally among woodland vegetation but plants have also been found on road batters and coastal cliffs. It is largely confined to loamy soils in dry gullies in populations in the Windellama area.	-	Endangered	Present
Acacia pubescens	Downy Wattle	Scattered throughout the Cumberland plain where it grows on clay and clay-shale soils.	Vulnerable	Vulnerable	Present
Gyrostemon thesioides		Within NSW, has only ever been recorded at three sites, to the west of Sydney, near the Colo, Georges and Nepean Rivers. Grows on hillsides and riverbanks and may be restricted to fine sandy soils.	-	Endangered	Absent
Callistemon linearifolius	Netted Bottle Brush	Recorded from the Georges River to Hawkesbury River in the Sydney area, and north to the Nelson Bay area of NSW. For the Sydney area, recent records are limited to the Hornsby Plateau area near the Hawkesbury River. Grows in dry sclerophyll forest on the coast and adjacent ranges.	-	Vulnerable	Absent
Eucalyptus benthamii	Camden White Gum	Occurs on the alluvial flats of the Nepean River and its tributaries. Requires a combination of deep alluvial sands and a flooding regime that permits seedling establishment.	Vulnerable	Vulnerable	Present
Eucalyptus nicholii	Narrow-leaved Black Peppermint	Confined to the New England Tablelands of NSW, where it occurs from Nundle to north of Tenterfield, largely on private property. Grows in dry grassy woodland, on shallow and infertile soils, mainly on granite.	Vulnerable	Vulnerable	Absent

Eucalyptus scoparia	Wallangarra White Gum	In NSW it is known from only three locations near Tenterfield, including Bald Rock National Park. Found in open eucalypt forest and woodland on well-drained granite hilltops, slopes and rocky outcrops.	Vulnerable	Endangered	Present
Melaleuca deanei	Deane's Paperbark	Occurs in two distinct areas, in the Ku-ring-gai/Berowra and Holsworthy/Wedderburn areas respectively. The species grows in heath on sandstone.	Vulnerable	Vulnerable	Possible
Syzygium paniculatum	Magenta Lilly Pilly	The Magenta Lilly Pilly is found only in NSW, in a narrow, linear coastal strip from Bulahdelah to Conjola State Forest. On the south coast the Magenta Lilly Pilly occurs on grey soils over sandstone, restricted mainly to remnant stands of littoral (coastal) rainforest. On the central coast Magenta Lilly Pilly occurs on gravels, sands, silts and clays in riverside gallery rainforests and remnant littoral rainforest communities.	Vulnerable	Endangered	Unlikely
Diuris aequalis	Buttercup Doubletail	The Type location (from the 19th Century) is Liverpool, west of Sydney. Recorded in forest, low open woodland with grassy understorey and secondary grassland on the higher parts of the Southern and Central Tablelands (especially on the Great Dividing Range).	Vulnerable	Endangered	Unlikely
Pterostylis nigricans	Dark Greenhood	Occurs in north-east NSW north from Evans Head, and in Queensland. Coastal heathland with Heath Banksia (Banksia ericifolia), and lower-growing heath with lichen-encrusted and relatively undisturbed soil surfaces, on sandy soils.	-	Vulnerable	Unlikely
Pterostylis saxicola	Sydney Plains Greenhood	Most commonly found growing in small pockets of shallow soil in depressions on sandstone rock shelves above cliff lines. The vegetation communities above the shelves where *Pterostylis saxicola* occurs are sclerophyll forest or woodland on shale/sandstone transition soils or shade soils.	Endangered	Endangered	Present
Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	Grows on reddish clay to sandy soils derived from Wianamatta Shale and Tertiary alluvium (often with shale influence), typically containing lateritic gravels.	-	Vulnerable	Highly Likely
Grevillea parviflora subsp. parviflora	Small-flower Grevillea	Grows in sandy or light clay soils usually over thin shales. Occurs in a range of vegetation types from heath and shrubby woodland to open	Vulnerable	Vulnerable	Likely

		forest. Found over a range of altitudes from flat, low-lying areas to upper slopes and ridge crests often in open, slightly disturbed sites such as along tracks.			
Pomaderris brunnea	Brown Pomaderris	Found in a very limited area around the Colo, Nepean and Hawkesbury Rivers. It grows in moist woodland or forest on clay and alluvial soils of flood plains and creek lines.	Vulnerable	Vulnerable	Possible
Persoonia hirsuta	Hairy Geebung	Has a scattered distribution around Sydney. Is found in sandy soils in dry sclerophyll open forest, woodland and heath on sandstone.	Endangered	Endangered	Possible
Persoonia nutans	Nodding Geebung	Restricted to the Cumberland Plain in western Sydney, between Richmond in the north and Macquarie Fields in the south. Is found in sandy soils in dry sclerophyll open forest, woodland and heath on sandstone.	Endangered	Endangered	Likely
Pimelea spicata	Spiked Rice-flower	Occurs on undulating topography on substrates derived from Wianamatta Shale in areas of Cumberland Plain Woodland Vegetation Community.	Endangered	Endangered	Possible

Appendix H

Field Survey Flora List

Species	Family	Common Name	Growth form	Endemic or Exotic	Weed or Non-weed
Acacia decurrens	Fabaceae - Mimosoideae	Black Wattle, Green Wattle	Tree	Endemic	Non-weed
Allocasuarina littoralis	Casuarinaceae	Black Sheoak	Tree	Endemic	Non-weed
Araujia sericifera	Asclepiadaceae	Moth vine	Vine	Exotic	Weed
Aristida vagans	Poaceae	Threeawn Speargrass	Graminoid	Endemic	Non-weed
Asparagus asparagoides	Asparagaceae	Bridal Creeper	Vine	Exotic	Weed
Aster subulatus	Asteraceae	Wild Aster or Bushy Starwort	Forb	Exotic	Weed
Astroloma humifusum	Ericaceae - Styphelioideae	Native Cranberry	Shrub	Endemic	Non-weed
Bidens pilosa	Asteraceae	Farmer's Friend	Forb	Exotic	Weed
Bromus catharticus	Poaceae	Prairie Grass	Graminoid	Exotic	Weed
Brunoniella spp.	Acanthaceae	Brunoniella	Forb	Endemic	Non-weed
Bursaria spinosa	Pittosporaceae	Blackthorn , Sweet Bursaria or Christmas bush	Tree	Endemic	Non-weed
Casuarina glauca	Casuarinaceae	Swamp Oak	Tree	Endemic	Non-weed
Cheilanthes sieberi	Pteridaceae-Adiantaceae	Poison Rock Fern or Mulga Fern	Forb	Endemic	Non-weed
Conyza spp.	Asteraceae	Junco, Horsweed or Fleabane	Forb	Exotic	Weed
Conyza sumatrensis	Asteraceae	Tall fleabane, broad-leaved fleabane or White Horseweed	Forb	Exotic	Weed
Corymbia maculata	Myrtaceae	Spotted gum	Tree	Endemic	Non-weed
Cyclospermum leptophyllum	Apiaceae	Slender Celery or Wild Carrot	Forb	Exotic	Weed
Dianella longifolia	Phormiaceae	smooth flax lily	Forb	Endemic	Non-weed
Dichelachne micrantha	Poaceae	Short-hair Plumegrass	Graminoid	Endemic	Non-weed
Dichondra repens	Convolvulaceae	Kidney Weed	Forb	Endemic	Weed
Dillwynia sieberi	Fabaceae	Prickly Parrot Pea or Juniper Pea Bush	Shrub	Endemic	Non-weed
Dodonaea viscosa subsp. cuneata	Sapindaceae	Sticky Hopbush	Shrub	Endemic	Non-weed
Einadia hastata	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed
Entolasia marginata	Poaceae	Bordered Panic	Graminoid	Endemic	Non-weed
Entolasia stricta	Poaceae	Wiry Panic	Graminoid	Endemic	Non-weed
Epacrid spp.	Epacridaceae	Australian Heath	Shrub	Endemic	Non-weed
Epaltes australis	Asteraceae	Spreading nut-heads	Forb	Endemic	Non-weed
Eragrostis curvula	Poaceae	African Lovegrass	Graminoid	Exotic	Weed
Eucalyptus acmenoides	Myrtaceae	White mahogany	Tree	Endemic	Non-weed
Eucalyptus crebra	Myrtaceae	Narrow-leaved Ironbark	Tree	Endemic	Non-weed
Eucalyptus eugenioides	Myrtaceae	Thin-leaved Stringy bark	Tree	Endemic	Non-weed
Eucalyptus fibrosa	Myrtaceae	Red Ironbark or Broad-leaved Ironbark	Tree	Endemic	Non-weed
Eucalyptus moluccana	Myrtaceae	Grey Box or Gum-topped box	Tree	Endemic	Non-weed

Species	Family	Common Name	Growth form	Endemic or Exotic	Weed or Non-weed
Eucalyptus platyphylla	Myrtaceae	Cabbage gum or Poplar Gum	Juvenile Tree	Endemic	Non-weed
Eucalyptus spp.	Myrtaceae	Eucalypt sapling with angular stem	Juvenile Tree	Endemic	Non-weed
Eucalyptus spp.	Myrtaceae	Euc seedling - hairy fruit, pleasant smelling	Juvenile Tree	Endemic	Non-weed
Eucalyptus tereticornis	Myrtaceae	Forest Red Gum	Tree	Endemic	Non-weed
Eucalyptus terticornis	Myrtaceae	Forest Red Gum	Tree	Endemic	Non-weed
Geranium spp.	Geraniaceae	garden geranium	Forb	Exotic	Weed
Glycine clandestina	Fabaceae	Twining Glycine or Love Creeper	Vine	Endemic	Non-weed
Gnaphalium americanum	Asteraceae	Cudweed	Forb	Exotic	Weed
Hardenbergia violacea	Fabaceae	Native sarsaparilla or Purple coral pea	Shrub	Endemic	Non-weed
Juncus spp.	Juncaceae	Rush	Shrub	Exotic	Weed
Laxmannia spp.	Anthericaceae		Forb	Endemic	Non-weed
Lepidium africanum	Brassicaceae	Peppergrass	Forb	Exotic	Weed
Lepidosperma gunnii	Cyperaceae	Little or Narrow Sword-sedge	Graminoid	Endemic	Non-weed
Leucopogon juniperinum	Ericaceae - Styphelioideae	Prickly Beard-heath	Shrub	Endemic	Non-weed
Ligustrum sinense	Oleaceae	Small-leaved Privot	Shrub	Exotic	Weed
Lissanthe strigosa	Ericaceae	Peach heath	Shrub	Endemic	Non-weed
Lolium perenne	Poaceae	Perennial Ryegrass	Graminoid	Exotic	Weed
Lomandra filiformis subsp. coriacea	Lomandraceae	Wattle Mat-rush	Forb	Endemic	Non-weed
Lomandra filiformis subsp. filiformis	Lomandraceae - Xanthorrhoeaceae	Wattle Mat-rush	Forb	Endemic	Non-weed
Lomandra longifolia	Lomandraceae - Xanthorrhoeaceae	Spiny-headed Mat-rush or Honey Reed	Forb	Endemic	Non-weed
Lomandra longifolia	Lomandraceae - Xanthorrhoeaceae	Spiny-head Mat Rush or Basket Grass	Forb	Endemic	Non-weed
Lomandra multiflora	Lomandraceae	Matrush	Forb	Endemic	Non-weed
Luzula spp.	Juncaceae	Wood-rush	Forb	Endemic	Non-weed
Lycium ferocissimum	Solanaceae	African Boxthorn	Shrub	Exotic	Weed
Melaleuca decora	Myrtaceae	White Feather Honeymyrtle	Tree	Endemic	Non-weed
Microlaena stipoides	Poaceae	Weeping grass	Graminoid	Endemic	Non-weed
Myrsiphyllum Asparagoides	Asparagaceae	Common Bridal Creeper	Vine	Exotic	Weed
Olea europaea	Oleaceae	African Olive	Shrub	Exotic	Weed
Onopordum acanthium	*Asteraceae*	Scotch Thistle	Forb	Exotic	Weed
Opercularia diphylla	Rubiaceae	Thin Leaf Stink Weed	Forb	Endemic	Weed
Opuntia stricta	Cactaceae	Prickly Pear	Shrub	Exotic	Weed
Oxalis perennans	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed
Ozothamnus	Asteraceae	Sago flower or pill flower	Shrub	Endemic	Non-weed

Species	Family	Common Name	Growth form	Endemic or Exotic	Weed or Non-weed
diosmifolius					
Panicum simile	Poaceae	Two-colour Panic	Forb	Endemic	Non-weed
Parsonsia spp.	Apocynaceae	woody vines/climbers	Vine	Endemic	Non-weed
Paspalum dilatatum	Poaceae	Dallis Grass	Graminoid	Exotic	Weed
Pinus spp.	Pinaceae	Garden Pine - exotic	Juvenile Tree	Exotic	Weed
Plantago debilis	Plantaginaceae	Shade Plantain or Weak Plantain	Forb	Endemic	Weed
Plectranthus parviflorus	Lamiaceae	Cockspur Flower	Shrub	Endemic	Weed
Pratia purpurascens	Lobeliaceae	White Root	Forb	Endemic	Non-weed
Pterostylis concinna	Orchidaceae	Trim Greenhood Orchid	Forb	Endemic	Non-weed
Senecio madagascariensis	Asteraceae	Fireweed	Forb	Exotic	Weed
Senecio vulgaris	Asteraceae	Common Groundsel	Forb	Exotic	Weed
Setaria parviflora	Poaceae	Slender Pigeon Grass	Graminoid	Exotic	Weed
Sida rhombifolia	Malvaceae	Paddy's Lucerne or Arrow-leaf Sida	Shrub	Exotic	Weed
Solanum nigrum sens.lat.	Solanaceae	Blackberry nightshade	Forb	Exotic	Weed
Solanum prinophyllum	Solanaceae	Forest nightshade	Forb	Endemic	Non-weed
Solanum pseudocapsicum	Solanaceae	Madeira Winter Cherry or Jerusalem Cherry	Shrub	Exotic	Weed
Sonchus spp.	Asteraceae	Milk Thistle	Forb	Exotic	Weed
Stellaria media	Caryophyllaceae	Common Chickweed	Forb	Exotic	Weed
Taraxacum officinale	Asteraceae	Dandelion	Forb	Exotic	Weed
Themeda triandra	Poaceae	Kangaroo Grass	Graminoid	Endemic	Non-weed
Tredescantia albiflora	Commelinaceae	Wandering Jew	Forb	Exotic	Weed
Unidentifiable grass	Poaceae	Grass D - round stem	Graminoid	Exotic	Weed
Unidentifiable grass	Poaceae	tiny grass	Graminoid	Exotic	Weed
Unidentifiable grass	Poaceae	Grass F	Graminoid	Exotic	Weed
Unidentifiable grass	Poaceae	blue grass	Graminoid	Exotic	Weed
Unidentifiable plant		(bulby species?)		Exotic	Weed
Unidentifiable plant		opposite-leaved, white hairs & flowers herb	Forb	Exotic	Weed
Unidentifiable plant		Square-stemmed opposite lieaved creeper	Graminoid	Exotic	Weed
Verbena bonariensis	Verbenaceae	Purpletop	Forb	Exotic	Weed
Veronica plebeia	Scrophulariaceae	Trailing Speedwell, Creeping Speedwell	Forb	Endemic	Non-weed
Wahlenbergia gracilis	Campanulaceae	Australian Bluebell	Forb	Endemic	Non-weed

Appendix I

Reference Site Assessments

To compare and contrast the quality of existing habitat and provide meaningful management and conservation recommendation measures, a field survey was undertaken to identify and characterise the vegetation communities on site. The selected benchmark sites are shown in **Figure I1** and the results of the survey are shown in **Tables I1 – I7**.

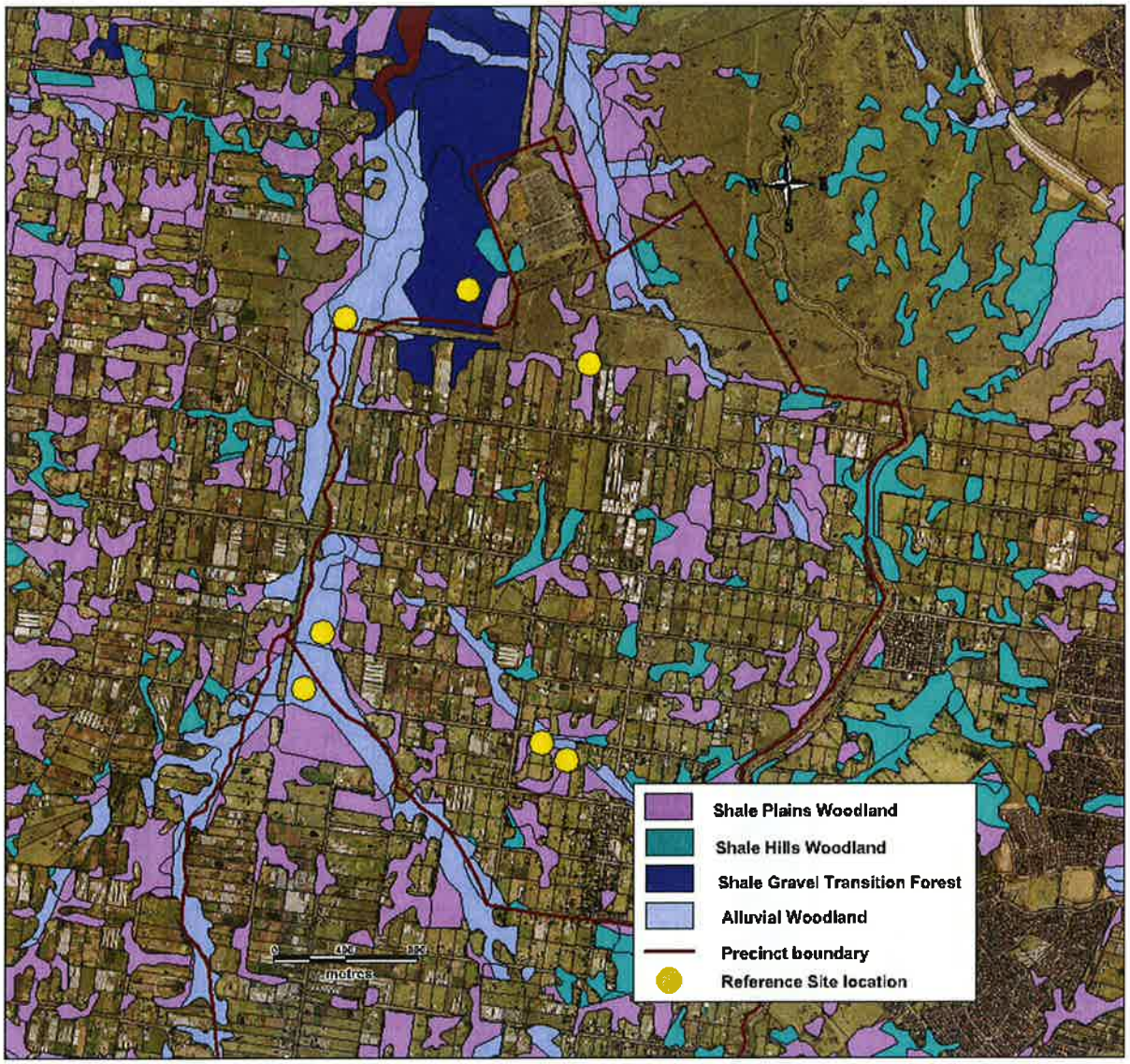


Figure I1 Location of reference sites.

Table Key

Layers
T1 = Canopy trees
T2 = Sub canopy understory trees
S1 = Shrub strata
S2 = Shrub strata
G = Ground

Dominance
D = Dominant
C = Co-dominant
A = Associated
S = Suppressed

Cover = Density of strata

Table I1 Shale Plains Woodland reference site assessment results.

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
Site 1 - Shale Plains Woodland									
T1	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Tree	Endemic	Non-weed	D	15m	Moderate
T1	*Eucalyptus tereticornis*	Myrtaceae	Forest Red Gum	Tree	Endemic	Non-weed	C	15m	Moderate
T2	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Tree	Endemic	Non-weed	D	9m	Sparse
S1	*Acacia decurrens*	Fabaceae - Mimosoideae	Black Wattle, Green Wattle	Tree	Endemic	Non-weed	D	2-4m	Sparse
S1	Juvenile *Eucalyptus spp.*	Myrtaceae		Juvenile Tree	Endemic	Non-weed	C	2-4m	Sparse
S2	*Acacia decurrens*	Fabaceae - Mimosoideae	Black Wattle, Green Wattle	Tree	Endemic	Non-weed	C	2-4m	Sparse
S2	Juvenile *Eucalyptus spp.*	Myrtaceae		Juvenile Tree	Endemic	Non-weed	D	0.5-1.5m	Sparse
S2	*Dodonaea viscosa subsp. cuneata*	Sapindaceae	Sticky Hopbush	Shrub	Endemic	Non-weed	S	0.5-1.5m	Sparse
S2	*Pinus spp.*	Pinaceae	Garden Pine - exotic	Juvenile Tree	Exotic	Weed	S	0-1m	Sparse
S2	*Olea europaea*	Oleaceae	African Olive	Shrub	Exotic	Weed	S	0-1m	Sparse
G	*Senecio madagascariensis*	Asteraceae	Fireweed	Forb	Exotic	Weed	S	0-1m	Sparse
G	*Plantago debilis*	Plantaginaceae	Shade Plantain or Weak Plantain	Forb	Endemic	Weed	-	0-1m	Dense
G	*Dichondra repens*	Convolvulaceae	Kidney Weed	Forb	Endemic	Weed	-	0-1m	Dense
G	*Pratia purpurascens*	Lobeliaceae	White Root	Forb	Endemic	Weed	-	0-1m	Dense
G	*Bidens pilosa*	Asteraceae	Farmer's Friend	Forb	Exotic	Weed	-	0-1m	Dense
G	*Sonchus spp*	Asteraceae	Milk Thistle	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Taraxacum officinale*	Asteraceae	Dandelion	Forb	Exotic	Weed	-	0-1m	Dense

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
G	Unidentifiable Weed			Forb	Exotic	Weed	-	0-1m	Dense
G	*Wahlenbergia gracilis*	Campanulaceae	Australian Bluebell	Forb	Endemic	Non-weed	-	0-1m	Dense
G	*Onopordum acanthium*	*Asteraceae*	Scotch Thistle	Forb	Exotic	Weed	-	0-1m	Dense
G	*Conyza spp.*	*Asteraceae*	Junco, Horsweed or Fleabane	Forb	Exotic	Weed	-	0-1m	Dense
G	*Sida rhombifolia*	Malvaceae	Paddy's Lucerne or Arrow-leaf Sida	Shrub	Exotic	Weed	-	0-1m	Sparse
G	*Glycine clandestina*	Fabaceae	Twining Glycine or Love Creeper	Vine	Endemic	Non-weed	-	0-1m	Dense
G	*Brunoniella spp.*	Acanthaceae	Brunoniella	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Setaria parviflora*	Poaceae	Slender Pigeon Grass	Graminoid	Exotic	Weed	-	0-1m	Dense
G	*Dichelachne micrantha*	Poaceae	Short-hair Plumegrass	Graminoid	Endemic	Non-weed	-	0-1m	Dense
G	*Eragrostis curvula*	Poaceae	African Lovegrass	Graminoid	Exotic	Weed	-	0-1m	Dense
G	*Oxalis perennans*	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed	-	0-1m	Dense
G	*Cyclospermum leptophyllum*	Apiaceae	Slender Celery or Wild Carrot	Forb	Exotic	Weed	-	0-1m	Sparse
G	Unidentifiable Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Dense
G	*Cheilanthes sieberi*	Pteridaceae-Adiantaceae	Poison Rock Fern or Mulga Fern	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Dodonaea viscosa subsp. cuneata*	Sapindaceae	Sticky Hopbush	Shrub	Endemic	Non-weed	-	0-1m	Dense
G	*Gnaphalium americanum*	Asteraceae	Cudweed	Forb	Exotic	Weed	-	0-1m	Dense
G	*Einadia hastata*	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed	-	0-1m	Dense
G	*Microlaena stipoides*	Poaceae	Weeping grass	Graminoid	Endemic	Non-weed	-	0-1m	Dense
G	Unidentifiable Weed				Exotic	Weed	-	0-1m	Sparse
G	Unidentifiable Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Dense
G	*Lomandra filiformis subsp. coriacea*	Lomandraceae	Wattle Mat Rush	Forb	Endemic	Non-weed	-	0-1m	Dense
G	*Verbena bonariensis*	Verbenaceae	Purpletop	Forb	Exotic	Weed		0-1m	Dense
G	*Asparagus asparagoides*	Asparagaceae	Common Bridal Creeper	Vine	Exotic	Weed	-	0-1m	Dense
G	*Paspalum dilatatum*	Poaceae	Dallis Grass	Graminoid	Exotic	Weed	-	0-1m	Dense

Table I2 Shale Plains Woodland reference site assessment results.

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
Site 2 - Shale Plains Woodland									
T1	*Corymbia maculata*	Myrtaceae	Spotted gum	Tree	Endemic	Non-weed	D	≤18m	Moderate
T1	*Eucalyptus crebra*	Myrtaceae	Narrow-leaved Ironbark	Tree	Endemic	Non-weed	C	≤18m	Moderate
T1	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Tree	Endemic	Non-weed	A	≤18m	Moderate
T2	*Eucalyptus crebra*	Myrtaceae	Narrow-leaved Ironbark	Tree	Endemic	Non-weed	D	≤8m	Sparse
T2	*Eucalyptus eugenioides*	Myrtaceae	Thin-leaved Stringy bark	Tree	Endemic	Non-weed	S	≤8m	Sparse
S1	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Juvenile Tree	Endemic	Non-weed	D	≤2m	Sparse
S1	*Corymbia maculata*	Myrtaceae	Spotted gum	Juvenile Tree	Endemic	Non-weed	D	≤2m	Sparse
G	*Lolium perenne*	Poaceae	Perennial Ryegrass	Graminoid	Exotic	Weed	-	0-1m	Dense
G	*Oxalis perennans*	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed	-	0-1m	Dense
G	Unidentified Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Dense
G	*Einadia hastata*	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed	-	0-1m	Moderate
G	*Epaltes australis*	Asteraceae	Spreading nut-heads	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Juncus spp.*	Juncaceae	Rush	Shrub	Exotic	Weed	-	0-1m	Sparse
G	*Glycine clandestina*	Fabaceae	Twining Glycine or Love Creeper	Vine	Endemic	Non-weed	-	0-1m	Sparse
G	*Eucalyptus spp.*	Myrtaceae	Euc seedling	Juvenile Tree	Endemic	Non-weed	-	0-1m	Sparse
G	*Lomandra filiformis subsp. coriacea*	Lomandraceae - Xanthorrhoeaceae	Wattle Mat-rush	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	Unidentied Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Laxmannia spp.*	Anthericaceae		Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Plantago debilis*	Plantaginaceae	Shade Plantain or Weak Plantain	Forb	Endemic	Weed	-	0-1m	Sparse
G	*Bidens pilosa*	Asteraceae	Farmer's Friend	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Cyclospermum leptophyllum*	Apiaceae	Slender Celery or Wild Carrot	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Gnaphalium americanum*	Asteraceae	Cudweed	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Conyza sumatrensis*	Asteraceae	Tall fleabane, Broad-leaved Fleabane or White Horseweed	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Senecio madagascariensis*	Asteraceae	Fireweed	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Solanum pseudocapsicum*	Solanaceae	Madeira Winter Cherry or Jerusalem	Shrub	Exotic	Weed	-	0-1m	Sparse

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
			Cherry						
G	*Entolasia marginata*	Poaceae	Bordered Panic	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Panicum simile*	Poaceae	Two-colour Panic	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	Unidentified Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Solanum prinophyllum*	Solanaceae	Forest nightshade	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Sida rhombifolia*	Malvaceae	Paddy's Lucerne or Arrow-leaf Sida	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Lomandra longifolia*	Lomandraceae	Spiny-headed Mat-rush or Honey Reed	Forb	Endemic	Non-weed	-	0-1m	Sparse

Table I3 Alluvial Woodland Flats reference site assessment results.

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
Site 3 - Starr Park - Alluvial Woodland Flats									
T1	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Tree	Endemic	Non-weed	D	18-20m	Dense
T1	*Eucalyptus terticornis*	Myrtaceae	Forest Red Gum	Tree	Endemic	Non-weed	D	18-20m	Dense
T2	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Tree	Endemic	Non-weed	D	8-10m	Moderate
S1	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Juvenile Tree	Endemic	Non-weed	D	2-4m	Sparse
S1	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Juvenile Tree	Endemic	Non-weed	C	2-4m	Sparse
S1	*Bursaria spinosa*	Pittosporaceae	Blackthorn , Sweet Bursaria or Christmas bush	Tree	Endemic	Non-weed	A	2-4m	Sparse
G	*Setaria parviflora*	Poaceae	Slender Pigeon Grass	Graminoid	Exotic	Weed	D	0-1m	Dense
G	*Plectranthus parviflorus*	Lamiaceae	Cockspur Flower	Shrub	Endemic	Weed	C	0-1m	Moderate
G	*Tredescantia albiflora*	Commelinaceae	Wandering Jew	Forb	Exotic	Weed	C	0-1m	Moderate
G	*Lolium perenne*	Poaceae	Perennial Ryegrass	Graminoid	Exotic	Weed	C	0-1m	Dense
G	*Oxalis perennans*	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Dichondra repens*	Convolvulaceae	Kidney Weed	Forb	Endemic	Weed	-	0-1m	Sparse
G	*Araujia sericifera*	Asclepiadaceae	Moth vine	Vine	Exotic	Weed	-	0-1m	Sparse
G	*Asparagus asparagoides*	Asparagaceae	Common Bridal Creeper	Vine	Exotic	Weed	-	0-1m	Sparse
G	*Einadia hastata*	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	*Sida rhombifolia*	Malvaceae	Paddy's Lucerne or Arrow-leaf Sida	Shrub	Exotic	Weed	-	0-1m	Sparse

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
G	*Lomandra longifolia*	Xanthorrhoeaceae	Spiny-head Mat Rush or Basket Grass	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Onopordum acanthium*	Asteraceae	Scotch Thistle	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Dianella longifolia*	Phormiaceae	smooth flax lily	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Solanum nigrum* sens.lat.	Solanaceae	Blackberry nightshade	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Geranium spp.*	Geraniaceae	garden geranium	Forb	Exotic	Weed	-	0-1m	Sparse
G	Unidentified Weed		opposite-leaved, white hairs & flowers herb	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Lepidium africanum*	Brassicaceae	Peppergrass	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Themeda triandra*	Poaceae	Kangaroo Grass	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	Unidentified Grass		blue grass	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Bromus catharticus*	Poaceae	Prairie Grass	Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Solanum prinophyllum*	Solanaceae	Forest nightshade	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Bidens pilosa*	Asteraceae	Farmer's Friend	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Opuntia stricta*	Cactaceae	Prickly Pear	Shrub	Exotic	Weed	-	0-1m	Sparse
G	*Stellaria media*	Caryophyllaceae	Common Chickweed	Forb	Exotic	Weed	-	0-1m	Sparse

Table I4 Alluvial Woodland Proper Flats reference site assessment results.

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
Site 4 - Alluvial Woodland Proper Flats									
T1	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Tree	Endemic	Non-weed	D	16m	Dense
T1	*Casuarina glauca*	Casuarinaceae	Swamp Oak	Tree	Endemic	Non-weed	C	16m	Dense
T1	*Eucalyptus terticornis*	Myrtaceae	Forest Red Gum	Tree	Endemic	Non-weed	A	16m	Dense
T2	*Casuarina glauca*	Casuarinaceae	Swamp Oak	Tree	Endemic	Non-weed	D	<8m	Sparse
S1	*Ligustrum sinense*	Oleaceae	Small-leaved Privot	Shrub	Exotic	Weed	D	2-4m	Sparse
S1	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Juvenile Tree	Endemic	Non-weed	D	2-4m	Sparse
S1	*Casuarina glauca*	Casuarinaceae	Swamp Oak	Juvenile Tree	Endemic	Non-weed	A	2-4m	Sparse
G	*Lolium perenne*	Poaceae	Perennial Ryegrass	Graminoid	Exotic	Weed	C		Dense

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
G	*Microlaena stipoides*	Poaceae	Weeping grass	Graminoid	Endemic	Non-weed	D	0-1m	Dense
G	*Sonchus spp*	Asteraceae	Milk Thistle	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Myrsiphyllum Asparagoides*	Asparagaceae	Common Bridal Creeper	Vine	Exotic	Weed	-	0-1m	Sparse
G	*Tredescantia albiflora*	Commelinaceae	Wandering Jew	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Sida rhombifolia*	Malvaceae	Paddy's Lucerne or Arrow-leaf Sida	Shrub	Exotic	Weed	-	0-1m	Sparse
G	*Einadia hastata*	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	*Geranium spp.*	Geraniaceae	Garden Geranium or Cranebill	Forb	Exotic	Weed	-	0-1m	Sparse
G	Unidentified Weed		opposite-leaved, white hairs & flowers herb	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Solanum nigrum* sens.lat.	Solanaceae	Blackberry nightshade	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Senecio vulgaris*	Asteraceae	Common Groundsel	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Dichondra repens*	Convolvulaceae	Kidney Weed	Forb	Endemic	Weed	-	0-1m	Sparse
G	*Bidens pilosa*	Asteraceae	Farmer's Friend	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Araujia sericifera*	Asclepiadaceae	Moth vine	Vine	Exotic	Weed	-	0-1m	Sparse
G	Unidentified Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Aster subulatus*	Asteraceae	Wild Aster or Bushy Starwort	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Onopordum acanthium*	Asteraceae	Scotch Thistle	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Cyclospermum leptophyllum*	Apiaceae	Slender Celery or Wild Carrot	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Oxalis perennans*	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed	-	0-1m	Sparse

Table I5 Shale Plains Woodland Flats reference site assessment results.

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
Site 5 - Shale Plains Woodland Flats									
T1	*Corymbia maculata*	Myrtaceae	Spotted gum	Tree	Endemic	Non-weed	D	18m	Moderate
T2	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Tree	Endemic	Non-weed	D	14m	Sparse
T2	*Corymbia maculata*	Myrtaceae	Spotted gum	Tree	Endemic	Non-weed	A	14m	Sparse
S1	*Bursaria spinosa*	Pittosporaceae	Blackthorn , Sweet Bursaria or Christmas bush	Tree	Endemic	Non-weed	D	2-4m	Moderate

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
S1	*Eucalyptus platyphylla*	Myrtaceae	Cabbage gum or Poplar Gum	Juvenile Tree	Endemic	Non-weed	C	2-4m	Sparse
S1	*Casuarina glauca*	Casuarinaceae	Swamp Oak	Juvenile Tree	Endemic		S	2-4m	Sparse
S2	*Lycium ferocissimum*	Solanaceae	African Boxthorn	Shrub	Exotic	Weed	S	0.5-1.5m	Sparse
S2	*Lissanthe strigosa*	Ericaceae	Peach heath	Shrub	Endemic	Non-weed	D	0.5-1.5m	Sparse
G	*Setaria parviflora*	Poaceae	Slender Pigeon Grass	Graminoid	Exotic	Weed	D	0-1m	Dense
G	*Pratia purpurascens*	Lobeliaceae	White Root	Forb	Endemic	Weed	A	0-1m	Moderate
G	*Brunoniella spp.*	Acanthaceae	Brunoniella	Forb	Endemic	Non-weed	A	0-1m	Sparse
G	*Solanum prinophyllum*	Solanaceae	Forest nightshade	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Onopordum acanthium*	Asteraceae	Scotch Thistle	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Sonchus spp*	Asteraceae	Milk Thistle	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Sida rhombifolia*	Malvaceae	Paddy's Lucerne or Arrow-leaf Sida	Shrub	Exotic	Weed	-	0-1m	Sparse
G	*Oxalis perennans*	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Dichondra repens*	Convolvulaceae	Kidney Weed	Forb	Endemic	Weed	-	0-1m	Sparse
G	*Plantago debilis*	Plantaginaceae	Shade Plantain or Weak Plantain	Forb	Endemic	Weed	-	0-1m	Sparse
G	*Taraxacum officinale*	Asteraceae	Dandelion	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Glycine clandestina*	Fabaceae	Twining Glycine or Love Creeper	Vine	Endemic	Non-weed	-	0-1m	Sparse
G	Unidentified Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Bidens pilosa*	Asteraceae	Farmer's Friend	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Cheilanthes sieberi*	Pteridaceae-Adiantaceae	Poison Rock Fern or Mulga Fern	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Geranium spp.*	Geraniaceae	garden geranium	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Paspalum dilatatum*	Poaceae	Dallis Grass	Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Bromus catharticus*	Poaceae	Prairie Grass	Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Einadia hastata*	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	*Dianella longifolia*	Phormiaceae	smooth flax lily	Forb	Endemic	Non-weed	-	0-1m	Sparse

Table I6 Shale Transition Forest Flats reference site assessment results.

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
Site 6 - Shale Transition Forest Flats									
T1	*Eucalyptus fibrosa*	Myrtaceae	Red Ironbark or Broad-leaved Ironbark	Tree	Endemic	Non-weed	A	20-22m	Moderate
T1	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Tree	Endemic	Non-weed	D	20-22m	Moderate
T2	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Tree	Endemic	Non-weed	D	8-10m	Moderate
T2	*Eucalyptus moluccana*	Myrtaceae	Juvenile Grey Box or Gum-topped box	Juvenile Tree	Endemic	Non-weed	S	6-8m	Sparse
S1	*Dillwynia sieberi*	Fabaceae	Prickly Parrot Pea or Juniper Pea Bush	Shrub	Endemic	Non-weed	D	1-2m	Moderate
S1	*Ozothamnus diosmifolius*	Asteraceae	Sago flower or pill flower	Shrub	Endemic	Non-weed	A	1-2m	Moderate
S1	*Melaleuca decora*	Myrtaceae	Juvenile White Feather Honeymyrtle	Juvenile Tree	Endemic	Non-weed	S	1-2m	Moderate
S2	*Leucopogon juniperinum*	Ericaceae - Styphelioideae	Prickly Beard-heath	Shrub	Endemic	Non-weed	A	1-2m	Sparse
S2	*Opuntia stricta*	Cactaceae	Prickly Pear	Shrub	Exotic	Weed	A	0.5-1.5m	Sparse
G	*Themeda triandra*	Poaceae	Kangaroo Grass	Graminoid	Endemic	Non-weed	D	0-1m	Sparse
G	*Dichondra repens*	Convolvulaceae	Kidney Weed	Forb	Endemic	Weed	A	0-1m	Moderate
G	*Lomandra filiformis subsp. coriacea*	Lomandraceae	Wattle Mat Rush	Forb	Endemic	Non-weed	A	0-1m	Moderate
G	*Glycine clandestina*	Fabaceae	Twining Glycine or Love Creeper	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	*Acacia decurrens*	Fabaceae - Mimosoideae	Black Wattle, Green Wattle	Seedling	Endemic	Non-weed	-	0-1m	Sparse
G	*Cheilanthes sieberi*	Pteridaceae-Adiantaceae	Poison Rock Fern or Mulga Fern	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Aristida vagans*	Poaceae	Threeawn Speargrass	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Brunoniella spp.*	Acanthaceae	Brunoniella	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Pratia purpurascens*	Lobeliaceae	White Root	Forb	Endemic	Weed	-	0-1m	Sparse
G	*Solanum prinophyllum*	Solanaceae	Forest nightshade	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Oxalis perennans*	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Taraxacum officinale*	Asteraceae	Dandelion	Forb	Exotic	Weed	-	0-1m	Sparse
G	*Lomandra multiflora*	Lomandraceae	Matrush	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	Unidentified Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Sparse

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
G	*Astroloma humifusum*	Ericaceae - Styphelioideae	Native Cranberry	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	*Entolasia stricta*	Poaceae	Wiry Panic	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Einadia hastata*	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	Unidentified Weed			Forb	Exotic	Weed	-	0-1m	Sparse
G	*Opercularia diphylla*	Rubiaceae	Thin Leaf Stink Weed	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Opercularia diphylla*	Rubiaceae	Thin Leaf Stink Weed	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Parsonsia spp.*	Apocynaceae	woody vines/climbers	Vine	Endemic	Non-weed	-	0-1m	Sparse

Table I7 Alluvial Woodland reference site assessment results.

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
Site 7 - Alluvial Woodland									
T1	*Eucalyptus moluccana*	Myrtaceae	Grey Box or Gum-topped box	Tree	Endemic	Non-weed	D	16-18m	Moderate
T1	*Eucalyptus acmenoides*	Myrtaceae	White mahogany	Tree	Endemic	Non-weed	A	16-18m	Moderate
T1	*Eucalyptus fibrosa*	Myrtaceae	Red Ironbark or Broad-leaved Ironbark	Tree	Endemic	Non-weed	A	16-18m	Moderate
T2	*Allocasuarina littoralis*	Casuarinaceae	Black Sheoak	Tree	Endemic	Non-weed	A	8-12m	Moderate
T2	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Tree	Endemic	Non-weed	D	8-12m	Moderate
T2	*Acacia decurrens*	Fabaceae - Mimosoideae	Black Wattle, Green Wattle	Tree	Endemic	Non-weed	A	8-12m	Moderate
S1	*Bursaria spinosa*	Pittosporaceae	Blackthorn , Sweet Bursaria or Christmas bush	Tree	Endemic	Non-weed	D	2-3m	Dense
S1	*Allocasuarina littoralis*	Casuarinaceae	Black Sheoak	Juvenile Tree	Endemic	Non-weed	A	2-4m	Moderate
S1	*Melaleuca decora*	Myrtaceae	White Feather Honeymyrtle	Juvenile Tree	Endemic	Non-weed	C	4m	Moderate
S2	*Dillwynia sieberi*	Fabaceae	Prickly Parrot Pea or Juniper Pea Bush	Shrub	Endemic	Non-weed	A	1-2m	Sparse
S2	*Epacrid spp.*	Epacridaceae	Australian Heath	Shrub	Endemic	Non-weed	D	1-2m	Moderate
G	*Themeda triandra*	Poaceae	Kangaroo Grass	Graminoid	Endemic	Non-weed	D	0-1m	Dense
G	*Lepidosperma gunnii*	Cyperaceae	Little or Narrow Sword-sedge	Graminoid	Endemic	Non-weed	A	0-1m	Dense
G	*Lomandra filiformis subsp. coriacea*	Lomandraceae - Xanthorrhoeaceae	Wattle Mat Rush	Forb	Endemic	Non-weed	A	0-1m	Dense

Layer	Species	Family	Common Name	Growth Form	Endemic or Exotic	Weed or Non-weed	Dominance	Median Height	Cover
G	*Cheilanthes sieberi*	Pteridaceae-Adiantaceae	Poison Rock Fern or Mulga Fern	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Dichondra repens*	Convolvulaceae	Kidney Weed	Forb	Endemic	Weed	-	0-1m	Sparse
G	*Lomandra filiformis subsp. filiformis*	Lomandraceae - Xanthorrhoeaceae	Wattle Mat Rush	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Pratia purpurascens*	Lobeliaceae	White Root	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Opuntia stricta*	Cactaceae	Prickly Pear	Shrub	Exotic	Weed	-	0-1m	Sparse
G	*Lissanthe strigosa*	Ericaceae	Peach heath	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	*Einadia hastata*	Chenopodiaceae	Berry Saltbush	Shrub	Endemic	Non-weed	-	0-1m	Sparse
G	*Oxalis perennans*	Oxalidaceae	Grassland Wood-sorrel	Graminoid	Endemic	Non-weed	-	0-1m	Sparse
G	*Brunoniella spp.*	Acanthaceae	Brunoniella	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Pterostylis concinna*	Orchidaceae	Trim Greenhood Orchid	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Myrsiphyllum Asparagoides*	Asparagaceae	Common Bridal Creeper	Vine	Exotic	Weed	-	0-1m	Sparse
G	*Veronica plebeia*	Scrophulariaceae	Trailing Speedwell, Creeping Speedwell	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	*Luzula spp.*	Juncaceae	Wood-rush	Forb	Endemic	Non-weed	-	0-1m	Sparse
G	Unidentified Grass	Poaceae		Graminoid	Exotic	Weed	-	0-1m	Sparse
G	*Glycine clandestina*	Fabaceae	Twining Glycine or Love Creeper	Shrub	Endemic	Non-weed	-	0-1m	Sparse

Appendix J

Remote Site Assessment

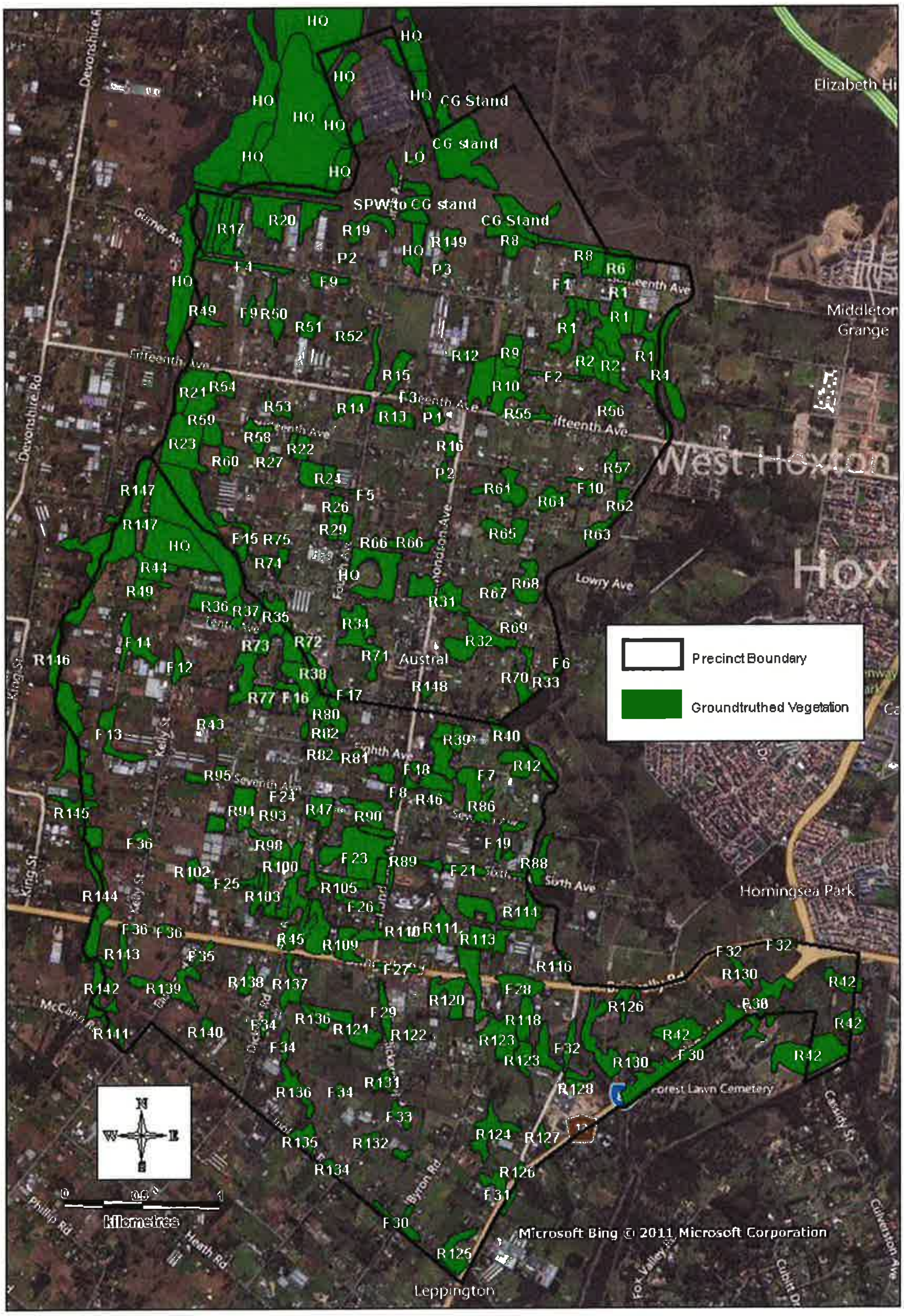
Site Number	Present/Absence Score	Cover Score	Species Richness Score	Dominant Species Score	Non-Native Cover Score	Total Score	Site Condition Value
R1	7.50	6.67	5.38	5.00	5.00	29.55	Medium
R2	10.00	9.17	2.31	3.75	6.67	31.89	Medium
R3	10.00	5.83	6.15	5.00	5.83	32.82	Medium
R4	10.00	7.50	6.92	7.50	8.33	40.26	High
R5	10.00	8.33	5.38	6.25	10.00	39.97	High
R6	7.50	5.00	0.77	2.50	7.50	23.27	Low
R7	10.00	5.00	1.54	2.50	10.00	29.04	Medium
R8	10.00	6.67	5.38	8.75	10.00	40.80	High
R9	7.50	4.17	1.54	3.75	7.50	24.46	Medium
R10	5.00	1.67	0.77	3.75	5.00	16.19	Low
R11	10.00	3.33	3.85	5.00	9.17	31.35	Medium
R12	7.50	5.83	2.31	2.50	6.67	24.81	Medium
R13	7.50	6.67	3.85	3.75	5.00	26.76	Medium
R14	7.50	5.00	3.85	5.00	6.67	28.01	Medium
R15	10.00	5.83	6.15	6.25	7.50	35.74	High
R16	10.00	7.50	3.85	6.25	7.50	35.10	High
R17	10.00	5.00	6.15	5.00	9.17	35.32	High
R18	10.00	4.17	3.08	1.25	7.50	25.99	Medium
R19	10.00	8.33	4.62	6.25	9.17	38.37	High
R20	10.00	5.00	3.85	6.25	7.50	32.60	Medium
R21	10.00	6.67	4.62	6.25	10.00	37.53	High
R22	5.00	4.17	5.38	2.50	2.50	19.55	Low
R23	10.00	8.33	7.69	8.75	7.50	42.28	High
R24	10.00	7.50	5.38	7.50	7.50	37.88	High
R25	10.00	5.83	3.85	3.75	7.50	30.93	Medium
R26	10.00	10.00	3.85	5.00	7.50	36.35	High
R27	10.00	7.50	3.08	5.00	7.50	33.08	Medium
R28	7.50	7.50	2.31	3.75	5.00	26.06	Medium
R29	10.00	6.67	3.85	5.00	6.67	32.18	Medium
R30	10.00	7.50	6.15	6.25	7.50	37.40	High
R31	10.00	6.67	7.69	7.50	5.83	37.69	High
R32	10.00	7.50	3.85	6.25	7.50	35.10	High
R33	10.00	6.67	4.62	5.00	7.50	33.78	Medium
R34	10.00	5.00	3.08	6.25	7.50	31.83	Medium
R35	10.00	8.33	6.15	6.25	7.50	38.24	High
R36	7.50	2.50	2.31	3.75	5.00	21.06	Low
R37	10.00	6.67	6.15	7.50	7.50	37.82	High
R38	10.00	7.50	4.62	6.25	7.50	35.87	High

Site Number	Present/Absence Score	Cover Score	Species Richness Score	Dominant Species Score	Non-Native Cover Score	Total Score	Site Condition Value
R39	7.50	7.50	1.54	3.75	5.00	25.29	Medium
R40	10.00	9.17	3.08	5.00	7.50	34.74	High
R41	10.00	6.67	6.15	5.00	7.50	35.32	High
R42	10.00	6.67	5.38	6.25	8.33	36.63	High
R43	7.50	5.83	1.54	1.25	5.00	21.12	Low
R44	5.00	4.17	0.00	1.25	2.50	12.92	Low
R45	10.00	9.17	6.15	7.50	6.67	39.49	High
R46	7.50	3.33	1.54	2.50	5.00	19.87	Low
R47	10.00	4.17	6.15	3.75	6.67	30.74	Medium
R48	10.00	8.33	5.38	5.00	7.50	36.22	High
R49	7.50	6.67	3.08	5.00	5.83	28.08	Medium
R50	7.50	7.50	2.31	1.25	2.50	21.06	Low
R51	10.00	7.50	4.62	3.75	5.00	30.87	Medium
R52	10.00	10.00	5.38	6.25	6.67	38.30	High
R53	7.50	3.33	2.31	2.50	5.83	21.47	Low
R54	10.00	3.33	3.08	1.25	9.17	26.83	Medium
R55	10.00	5.83	7.69	5.00	1.67	30.19	Medium
R56	10.00	6.67	6.15	5.00	5.00	32.82	Medium
R57	10.00	10.00	6.92	6.25	9.17	42.34	High
R58	7.50	6.67	2.31	3.75	5.00	25.22	Medium
R59	7.50	3.33	4.62	6.25	5.83	27.53	Medium
R60	10.00	6.67	6.15	5.00	7.50	35.32	High
R61	10.00	7.50	3.08	6.25	8.33	35.16	High
R62	10.00	6.67	3.85	2.50	5.00	28.01	Medium
R63	10.00	9.17	3.85	5.00	8.33	36.35	High
R64	7.50	6.67	0.77	2.50	6.67	24.10	Medium
R65	7.50	5.00	3.08	2.50	3.33	21.41	Low
R66	7.50	5.00	3.08	3.75	4.17	23.49	Low
R67	7.50	6.67	2.31	5.00	5.83	27.31	Medium
R68	10.00	5.83	2.31	5.00	10.00	33.14	Medium
R69	5.00	2.50	0.00	2.50	5.00	15.00	Low
R70	10.00	6.67	6.15	6.25	7.50	36.57	High
R71	7.50	4.17	0.77	2.50	4.17	19.10	Low
R72	10.00	6.67	6.92	5.00	8.33	36.92	High
R73	7.50	5.83	5.38	2.50	4.17	25.38	Medium
R74	10.00	6.67	3.08	5.00	7.50	32.24	Medium
R75	10.00	5.83	6.15	3.75	5.00	30.74	Medium
R76	10.00	8.33	5.38	3.75	6.67	34.13	High

Site Number	Present/Absence Score	Cover Score	Species Richness Score	Dominant Species Score	Non-Native Cover Score	Total Score	Site Condition Value
R77	10.00	5.00	5.38	5.00	10.00	35.38	High
R78	10.00	5.83	3.85	0.00	2.50	22.18	Low
R79	10.00	4.17	6.92	5.00	3.33	29.42	Medium
R80	10.00	8.33	6.92	5.00	4.17	34.42	High
R81	10.00	7.50	5.38	7.50	9.17	39.55	High
R82	10.00	3.33	3.85	6.25	6.67	30.0962	Medium
R83	7.50	5.83	0.77	1.25	5.00	20.35	Low
R84	7.50	5.83	0.77	2.50	7.50	24.10	Medium
R85	7.50	5.00	2.31	5.00	5.00	24.81	Medium
R86	7.50	5.00	1.54	3.75	5.00	22.79	Low
R87	7.50	5.83	0.77	5.00	6.67	25.77	Medium
R88	10.00	8.33	6.92	3.75	5.00	34.01	High
R89	10.00	7.50	6.92	7.50	5.00	36.92	High
R90	7.50	3.33	6.92	6.25	5.00	29.01	Medium
R91	10.00	7.50	5.38	8.75	6.67	38.30	High
R92	10.00	6.67	4.62	3.75	7.50	32.53	Medium
R93	10.00	8.33	3.85	5.00	8.33	35.51	High
R94	10.00	9.17	6.15	3.75	7.50	36.57	High
R95	10.00	5.83	3.85	1.25	5.83	26.76	Medium
R96	10.00	7.50	6.15	2.50	3.33	29.49	Medium
R97	7.50	2.50	3.08	3.75	5.00	21.83	Low
R98	7.50	3.33	2.31	1.25	6.67	21.06	Low
R99	10.00	4.17	3.08	2.50	6.67	26.41	Medium
R100	10.00	9.17	3.85	6.25	10.00	39.26	High
R101	7.50	5.00	0.77	2.50	5.00	20.77	Low
R102	10.00	5.83	3.08	3.75	7.50	30.16	Medium
R103	10.00	6.67	4.62	5.00	8.33	34.62	High
R104	10.00	5.83	7.69	6.25	5.00	34.78	High
R105	7.50	6.67	1.54	5.00	7.50	28.21	Medium
R106	10.00	8.33	6.92	7.50	5.83	38.59	High
R107	10.00	5.83	6.92	3.75	5.83	32.34	Medium
R108	7.50	5.00	0.77	3.75	6.67	23.69	Medium
R109	10.00	6.67	3.08	5.00	7.50	32.24	Medium
R110	10.00	6.67	4.62	5.00	9.17	35.45	High
R111	10.00	5.83	7.69	7.50	5.00	36.03	High
R112	7.50	5.00	3.85	3.75	5.83	25.93	Medium
R113	10.00	8.33	6.15	5.00	5.83	35.32	High
R114	10.00	5.83	5.38	3.75	3.33	28.30	Medium

Site Number	Present/Absence Score	Cover Score	Species Richness Score	Dominant Species Score	Non-Native Cover Score	Total Score	Site Condition Value
R115	7.50	5.00	3.08	3.75	5.83	25.16	Medium
R116	10.00	5.83	6.15	3.75	3.33	29.07	Medium
R117	10.00	5.83	6.92	6.25	4.17	33.17	Medium
R118	10.00	4.17	3.08	5.00	9.17	31.41	Medium
R119	10.00	10.00	7.69	6.25	5.83	39.78	High
R120	10.00	7.50	6.92	3.75	6.67	34.84	High
R121	10.00	5.83	5.38	6.25	6.67	34.13	High
R122	5.00	4.17	0.77	3.75	3.33	17.02	Low
R123	10.00	7.50	6.92	8.75	7.50	40.67	High
R124	10.00	6.67	4.62	2.50	8.33	32.12	Medium
R125	7.50	5.83	2.31	2.50	5.83	23.97	Medium
R126	10.00	6.67	5.38	6.25	8.33	36.63	High
R127	10.00	7.50	6.92	5.00	7.50	36.92	High
R128	10.00	6.67	5.38	6.25	7.50	35.80	High
R129	10.00	5.83	5.38	5.00	7.50	33.72	Medium
R130	10.00	7.50	4.62	3.75	9.17	35.03	High
R131	10.00	8.33	3.85	6.25	10.00	38.43	High
R132	10.00	6.67	5.38	5.00	9.17	36.22	High
R133	10.00	6.67	5.38	5.00	9.17	36.22	High
R134	10.00	5.00	6.92	5.00	7.50	34.42	High
R135	10.00	7.50	7.69	10.00	7.50	42.69	High
R136	10.00	8.33	2.31	3.75	6.67	31.06	Medium
R137	10.00	9.17	7.69	7.50	10.00	44.36	High
R138	10.00	8.33	3.85	5.00	9.17	36.35	High
R139	10.00	5.00	4.62	6.25	8.33	34.20	High
R140	10.00	8.33	4.62	6.25	9.17	38.37	High
R141	10.00	6.67	7.69	6.25	5.00	35.61	High
R142	10.00	6.67	7.69	10.00	9.17	43.53	High
R143	10.00	6.67	3.08	5.00	9.17	33.91	Medium
R144	10.00	9.17	9.23	7.50	7.50	43.40	High
R145	7.50	3.33	3.85	6.25	6.67	27.60	Medium
R146	10.00	7.50	8.46	3.75	7.50	37.21	High
R147	10.00	9.17	10.00	6.25	8.33	43.75	High
R148	7.50	5.83	2.31	5.00	7.50	28.14	Medium
R149	10.00	8.33	3.85	5.00	6.67	33.85	Medium
*HQ	10.00	9.17	7.69	7.50	10.00	44.36	High
**LQ	5.00	4.17	0.00	1.25	2.50	12.92	Low
***CG	10.00	9.17	7.69	7.50	10.00	44.36	High

*HQ = high quality site
**LQ = low quality site
*** CG = site with unique stands of *Casuarina glauca* species


Precinct Boundary
Groundtruthed Vegetation
N
S
W
E
0
0.5
1
Kilometres
Microsoft Bing © 2011 Microsoft Corporation
Elizabeth Hi
Middleton Grange
West Hoxton
Hox
Horningsea Park
Austral
Leppington
Forest Lawn Cemetery
Devonshire Rd
King St
Kelly St
Fifteenth Ave
Sixth Ave
Lowry Ave
Heath Rd
Phillip Rd
Byron Rd
Fox Valley Rd
Cassidy St
Cabramatta Ave

Appendix K

Fauna Habitat Assessment Results

Habitat Feature	No. Encountered	Site No.	Species	Family	Common Name	Comments
Fauna sighting	1	1	*Tiliqua spp.*	Scincidae	Bluetongue	
Scat	1	1	*Oryctolagus spp.*	Leporidae	Rabbit	
Birds		1	*Manorina melanocephala*	Meliphagidae	Noisy Miner	
Fallen logs	3	2				1 hollow
Scat	2	2	*Oryctolagus spp.*	Leporidae	Rabbit	
Birds		2	*Manorina melanocephala*	Meliphagidae	Noisy Miner	
Hollow stumps	3	2				
Fallen logs	3	3				
Scat	1	3		Macropodidae	Wallaby	
Scat	1	3		Canidae	Dog	
Birds		3	*Manorina melanocephala*	Meliphagidae	Noisy Miner	
Birds		3	*Gymnorhina spp*	Cracticidae	Magpie	
Fauna sighting	4	3	*Pseudechis porphyriacus*	Elapidae	Red-bellied Black Snake	
Fauna sighting	>5	3			Skinks	Do not know species
Scat	1	4			Possum	Do not know species
Fauna sighting	1	4	*Vulpes vulpes*	Canidae	Fox	
Birds	>10	4	*Manorina melanocephala*	Meliphagidae	Noisy Miner	
Birds	2		*Grallina cyanoleuca*	Monarchidae	Magpie-lark	
Birds	1	4	*Corvus orru*	Corvidae	Torresian Crow	
Fauna sighting	>5	4			Skinks	Do not know species
Calls	1	4	*Litoria fallax*	Hylidae	Eastern Dwarf Tree Frog	
Tree hollows at base	2	5				
Fallen logs	6	5				

Habitat Feature	No. Encountered	Site No.	Species	Family	Common Name	Comments
Diggings	1	5	*Oryctolagus spp.*	Leporidae	Rabbit	
Hollow bearing trees	2	6				Small 5-10cm diametre
Fallen logs	3	6				
Hollow stumps	4	6				Old
Scat	1	6		Macropodidae	Wallaby	
Scat	1	6			Possum	Do not know species
Scat	1	6	*Oryctolagus spp.*	Leporidae	Rabbit	
Scat	1	6			Rat	Do not know species
Fauna sighting	1	6			dragon lizard	Small - do not know species
Fauna sighting	>5	6			Skinks	Do not know species
Birds		6	Malurus cyaneus	Maluridae	Superb Fairywren	
Fallen logs	2	7				
Hollow stumps	2	7				
Birds	>10	7			wrens	Do now know species

Site 1 = Shale Plains Woodland Site 2 = Shale Plains Woodland Site 3 = Alluvial Woodland Site 4 = Alluvial Woodland Site 5 = Shale Plains Woodland
Site 6 = Shale Transition Forest Site 7 = Alluvial Woodland

Appendix L

Relevant Legislation

Relevant Legislation and Regulations

The following Acts, Regulations and policies inform the manner in which biodiversity within the Austral and Leppington North precincts are required to be managed.

Japan – Australia Migratory Bird Agreement (JAMBA)

The JAMBA agreement is a bilateral agreement between Australia and Japan that provides for the protection and conservation of migratory birds.

There are no JAMBA listed birds in the study area for the development proposal to consider.

China – Australia Migratory Bird Agreement (CAMBA)

The CAMBA agreement is a bilateral agreement between Australia and China that provides for the protection and conservation of migratory birds.

Rostratula benghalensis australis (painted snipe), *Gallinago hardwickii* (Latham's snipe) and *Apus pacificus* (fork-tailed swift) are bird species listed in CAMBA that may occur in Austral and Leppington North precincts. Development proposals must abide by the laws and regulations under the Agreement.

Environment Protection & Biodiversity Conservation Act 1999 (EPBC Act)

The *EPBC Act* provides a statutory framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places defined in the *EPBC Act* as matters of National Environmental Significance (NES) (DEWHA, 1999).

Cumberland Plain Woodland - Shale Plains Woodland, Sydney Coastal River Flat Forest – Alluvial Woodland and the Shale-Gravel Transitional Forest are all listed as critically Endangered Ecological Communities under the *EPBC Act*. Development proposals must normally abide by the regulations under the Act, noting that where Strategic Assessment under the EPBC Act has been undertaken, exemptions may apply.

Strategic Assessment under the Environment Protection & Biodiversity Conservation Act 1999 (EPBC Act)

A Strategic Assessment under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is a big-picture study of an area to assess how national environmental and heritage values can be protected.

The Strategic Assessment process allows for assessment and endorsement of a proposed broad-scale policy, plan or program.

Through Strategic Assessments, the Commonwealth Government works with partners -- such as state or local governments -- to ensure a policy, plan or program will adequately safeguard nationally protected matters for the long term.

Nationally protected matters of relevance to this study are considered to be:

• listed threatened species and ecological communities

• migratory species protected under international agreements

Strategic Assessments reduce red tape by addressing Commonwealth environmental concerns giving greater upfront clarity to developers, landholders, planners, industry, government and the community.

Once a strategic assessment is complete and approvals have been given, individual proponents will not have to seek approval under the EPBC Act from the Commonwealth Government, as long as they undertake their projects in accordance with the endorsed policy, plan or program.

The implications for this study are that within the Austral and Leppington North precincts, proposals do not need to be referred to the Commonwealth Government under the EPBC Act if the proposal is inside the Growth Centres, and in accordance with the endorsed Program, noting that:

- Any proposal to clear land that is **certified** under the Growth Centres Biodiversity Certification is in accordance with the endorsed Program.
- Any proposal to clear land that is **non-certified** must be in accordance with the Relevant Biodiversity Measures (RBMs) of the Growth Centres Biodiversity Certification.
- A number of RBMs apply to specific parcels of land or specific types of development, making it essential to check compliance against the RBMs for any proposal in the non-certified areas.
- The NSW *Threatened Species Conservation Act 1995* (TSC Act) continues to apply to land that is non-certified under the Growth Centres Biodiversity Certification.

Environmental Planning and Assessment Act 1979 (EP&A Act) and Assessment Regulation 2000 (EP&A Regulation)

The *EP&A Act* regulates the implementation and enforcement of planning powers. It establishes provisions for the making of Environmental Planning Instruments (EPIs) such as SEPPs and Local Environmental Plans (LEPs), including the State Environmental Planning Policy (Sydney Region Growth Centres) 2006 (Growth Centres SEPP). The *EP&A Regulation* established additional provisions that provide further guidance on the requirements of the *EP&A Act*. Of particular significance to planning for Sydney's Growth Centres are clause 276 which establishes provisions with respect to the release of Precincts for urban development and clause 275 which requires an assessment of the consistency of certain proposed development with the relevant Growth Centre Structure Plan if a Precinct is released (Eco Logical, 2010).

The *EP&A Act* and the *2000 Regulation* set out amongst other things the:

- Requirements for rezoning land;

- Requirements regarding the preparation of environmental planning instruments;
- Matters for consideration when determining a development application; and,
- Approval permits and/or licences required from other authorities under other legislation.

Section 117 Directions of the *EP&A Act* require councils to address a range of matters when seeking to rezone land. While not directly relevant to the rezoning process adopted for the Growth Centres, these directions have been considered in planning for the Austral-Leppington North Precincts.

State Environmental Planning Policy (Sydney Region Growth Centres) 2006 (Growth Centres SEPP)

The Growth Centres SEPP establishes the planning rules and objectives for the Growth Centres and Councils need to apply the SEPP when making decisions about land within the Growth Centres. In particular, the SEPP identifies areas of open space and environment conservation to be protected within the Growth Centres, and areas that are flood prone or major creek lands and transitional lands that need to be further assessed in the Precinct planning process.

Environmental Planning and Assessment Amendment (Sydney Region Growth Centres) Regulation 2006

The Growth Centres Regulation supports the Growth Centres SEPP. The Regulation makes provision for the release of precincts for residential, employment and other urban development in the North West and South West Growth Centres. In particular, it requires the Minister to prepare a Development Code and Infrastructure Plan to assist with the Precinct Planning process.

Threatened Species Conservation (TSC) Act 1995

The Act identifies threatened species and populations, Endangered Ecological Communities (EEC) and critical habitat, as well as key threatening processes. Approval is required in order to:

- Harm any animal or plant that is identified as a threatened species or is part of a threatened population or EEC;
- Damage critical habitat;or,
- Damage the habitat of any threatened species, population or EEC.

The Act also provides for the biodiversity certification of environmental planning instruments such as the Growth Centres SEPP. The Biodiversity Certification Order for the Growth Centres SEPP was gazetted by the Minister for Environment in December 2007.

While development on lands subject to Certification no longer requires assessment under the *TSC Act*, the Austral-Leppington development plan should consider and manage the presence of species, populations and communities listed under the *TSC Act*.

Threatened Species Conservation Amendment (Special Provisions) Act 2008

This Bill was introduced to Parliament in 2008. The object of this Bill is to amend the *TSC Act* to confirm that the Growth Centres SEPP has biodiversity certification under that Act. The Bill also amends the *Local Government Act 1993* to make it clear that, for local government rating purposes, where part of a parcel of land is the subject of a conservation agreement under the *National Parks and Wildlife Act 1974*, the rate payable on the whole parcel is to be proportionately reduced.

Fisheries Management Act 1994 (FM Act)

The *Fisheries Management Act 1994,* administered by the Industry and Investment NSW (I&I NSW) (formerly DPI) applies to any works within aquatic habitats. The *FM Act* aims to conserve, develop and share the fishery resources of NSW for the benefit of present and future generations. It defines 'fish' as any marine, estuarine or freshwater fish or other aquatic animal life at any stage of their life history. This includes insects, molluscs (eg. oysters), crustaceans, echinoderms, and aquatic polychaetes (eg. beachworms), but does not include whales, mammals, reptiles, birds, amphibians or species specifically excluded (eg. some dragonflies are protected under the *TSC Act* instead of the *FM Act*). Under this act, if any activity occurs that will block fish passage, then a permit under this Act will be required.

Water Management Act 2000 (WMA)

The *WMA* regulates construction activities in close proximity to waterways. Principles set out in the Act generally aim to preserve and/or restore water sources, floodplains, and water dependant ecosystems (including groundwater and wetlands). The Act also encompasses the protection of habitats, animals and plants which benefit from water or are potentially affected by managed activities.

One of the aims of the *WMA* is to protect riparian corridors. The ecological assessment completed will aid in identifying riparian zones in the study area that will need to be protected.

Noxious Weeds Act 1993

The *Noxious Weeds Act 1993* was implemented to regulate the impacts and spread of weeds within NSW. The Act governs the control, classification and removal of weeds declared as noxious weeds. Land which is privately occupied requires implementation of appropriate noxious weed controls under Part 4 of the Act. Penalties apply if the occupier fails to comply.

Based on the results of the flora assessment, the restrictions of the *Noxious Weeds Act 1993* will apply to development within the Austral-Leppington North Precincts.

Planning for Bushfire Protection 2006 (PBP 2006)

PBP 2006 has been released and adopted since 1 March 2007 through the Environmental Planning and Assessment Amendment (Planning for Bush Fire Protection) Regulation 2007

and the Rural Fires Amendment Regulation 2007. This new version replaces Planning for Bush Fire Protection, 2001.

This new version of PBP applies to all "development applications" on land that is classified as "bush fire prone land" (BPL), identified on a council's BPL map. For development on BPL specific controls apply to residential/rural residential subdivision and "Special Fire Protection Purposes" (SFPPs) – those types of development specified in the legislation as requiring particular attention (including mandatory involvement of the Rural Fire Service) (NSW Rural Fire Service, 2006).

Protection of the Environment Operations Act 1997 (PoEO Act)

The *PoEO Act* provides a single licensing arrangement to replace the different licences and approvals under existing separate Acts relating to air pollution, water pollution, noise pollution and waste management.

The EPA is made the regulatory authority for:

- Activities listed in Schedule 1 to the Act and the premises where they are carried on;
- Activities carried on by a State or public authority; and,
- Other activities in relation to which a licence regulating water pollution is issued.

In nearly all other cases, the regulatory authority is the relevant local council.

The activities listed in Schedule 1 to the Act (generally activities with potentially significant environmental impacts) require a licence. Licences can also be issued to regulate water pollution from activities that are not in Schedule 1. Licences are on-going but subject to review at least once every 5 years and can be varied, suspended or revoked.

Catchment Management Authorities Act 2003 (CMA)

This Act establishes Catchment Management Authorities (CMAs) and their roles and responsibilities, including the development of catchment action plans.

The Hawkesbury-Nepean Catchment Management Authority (HNCMA) was formed under *Catchment Management Authorities Act*. The primary role of the HNCMA is to fund environmental projects on private land in areas of critical importance. It is a statutory authority with a board that reports directly to the Minister for Environment, Climate Change and Water.

Sydney Regional Environmental Plan (SREP) No 20 – Hawkesbury-Nepean River (No 2 – 1997)

SREP 20 seeks to protect the environment of the Hawkesbury-Nepean River system. Development within the catchment is required to consider the general and specific principles and controls listed in the SREP to ensure the impacts of future land use are considered in a regional context. Kemps Creek is a tributary of the Hawkesbury-Nepean River system. Precinct Planning must consider the impacts of the development on the health of the system.

State Environmental Planning Policy No.19 (SEPP 19) – Bushland in Urban Areas

SEPP 19 seeks to protect and preserve bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. The policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

The ecological assessment conducted will aid in identifying bushland in the study area that will need to be protected.

Growth Centres Development Code 2006

The Development Code sets out the processes to be followed during Precinct Planning. The Code helps to implement policies at the regional and neighbourhood levels by, amongst others:

- Providing guidance on the Precinct Planning Process;
- Promoting best practice urban design;
- Increasing housing choices;
- Providing local employment for locals;
- Providing facilities and services at a local level;
- Maintaining the natural environment and visual character of the topography;
- Integrating existing infrastructure; and,
- Providing, protecting and maintaining open space opportunities throughout entire Precincts.

Growth Centres Conservation Plan 2007

This Conservation Plan identifies the existing biodiversity values within the Growth Centres and proposes a suite of mechanisms to achieve positive conservation outcomes for Western Sydney, and more broadly, the Sydney Basin, within the context of streamlining the development assessment process and providing for the future urban growth of Sydney (Eco Logical, 2007).

The objectives of the Conservation Plan are to:

- Outline planning and offsetting proposals for the Growth Centres;
- Assess whether they will improve or maintain regional biodiversity values; and,
- Confirm the outcomes of the assessments under Section 126G of the *TSC Act* so that biodiversity certification may be granted to the Growth Centres SEPP by the Minister for the Environment, Climate Change and Water (Eco Logical, 2007).

Liverpool LEP 2008

This Plan aims to make local environmental planning provisions for land in Liverpool in accordance with the relevant standard environmental planning instrument under section 33A of the *EP& A Act*.

The particular ecologically relevant aims of this Plan are as follows, to:

- Foster economic, environmental and social well-being so that Liverpool continues to develop as a sustainable and prosperous place to live, work and visit;
- Concentrate intensive land uses and trip-generating activities in locations most accessible to transport and centres;
- Promote the efficient and equitable provision of public services, infrastructure and amenities;
- Conserve, protect and enhance the environmental and cultural heritage of Liverpool;
- Protect and enhance the natural environment in Liverpool, incorporating ecologically sustainable development;
- Minimise risk to the community in areas subject to environmental hazards, particularly flooding and bush fires; and,
- Promote a high standard of urban design that responds appropriately to the existing or desired future character of areas.

Camden LEP 2010

This Plan aims to make local environmental planning provisions for land in Camden in accordance with the relevant standard environmental planning instrument under section 33A of the *EP& A Act*.

The particular ecologically relevant aims of this Plan are as follows, to:

- Ensure Camden retains its valued traditional qualities, character and scenic landscapes while providing for sustainable urban growth;
- Ensure that new communities are planned and developed in an orderly, integrated and sustainable manner and contribute to the social, environmental and economic sustainability of Camden;
- Ensure natural assets within Camden are protected and enhanced;
- minimise the impact on existing and future communities of natural hazards such as bush fires and flooding;
- Ensure the agricultural production potential of rural land, and prevent the fragmentation of agricultural holdings;
- ensure that the recreation, cultural and social needs of all existing and future residents of Camden are appropriately planned for;

- Protect and restore the environmental values of land, including waterways and riparian land, as part of the natural systems; and,
- Conserve and enhance the built and landscape heritage of Camden.

Appendix M

Relevant Biodiversity Measures Consistency Report

NSW GOVERNMENT | Planning

Growth Centres Biodiversity Certification

Assessment of Consistency between the Relevant Biodiversity Measures of the Biodiversity Certification Order and Austral and Leppington North Precincts

August 2012

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1. Introduction

In July 2008 an amendment was made under Schedule 7 Part 7 to the *Threatened Species Conservation Act 1995* (TSC Act) to confer biodiversity certification on the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (Growth Centres SEPP). Compliance with the relevant biodiversity measures (RBMs) in the biodiversity certification order (dated 14 December 2007) is required to maintain the certification. The RBMs require (among other things) the retention of 2000 hectares of existing native vegetation within the Growth Centres and additional offsetting outside the Growth Centre boundaries.

This report has been prepared to fulfil the requirement of RBM 35 for an assessment of the consistency of proposed precinct plans with the biodiversity certification and the RBMs.

This report has been prepared in a table format and addresses all RBMs that are relevant to precinct planning. It is noted that many of the RBMs are not specific to precinct planning and have therefore not been included in the report.

A complete copy of the biodiversity certification order (including all relevant biodiversity measures) can be found on the Office of Environmental and Heritage website at http://www.environment.nsw.gov.au/biocertification/notcert.htm

Where the report indicates that precinct planning is inconsistent with the biodiversity certification, full justification for the inconsistency is provided as part of the ecological assessment for the precinct.

Definitions

Terms defined below appear in **bold** in the table. Where the terms are also defined in the Biodiversity Certification Order, the definitions provided are consistent with those in the Order.

- *Biodiversity Certification Maps* means the maps marked "North West Growth Centre – Biodiversity Certification" and "South West Growth Centre – Biodiversity Certification" dated November 2007 and included in Schedule 2 of the Biodiversity Certification Order.
- *Certified Area* means an area marked as a certified area on a biodiversity certification map.
- *Clearing* of existing native vegetation means any one or more of the following:
  a) cutting down, felling, thinning, logging or removing existing native vegetation in whole or in part,
  b) killing, destroying, poisoning, ringbarking, uprooting or burning existing native vegetation in whole or in part.
- *Existing Native Vegetation (ENV) means areas of indigenous trees (including any sapling) that:*
  a) had 10% or greater over storey canopy cover present,
  b) were equal to or greater than 0.5 ha in area, and
  c) were identified as "vegetation" on maps 4 and 5 of the draft Growth Centres Conservation Plan.
- *DECCW* means the Department of Environment, Climate Change and Water (which was the former Department of Environment and Climate Change, DECC, and is now the Office of Environment and Heritage (OEH)).
- *DoPI* means the Department of Planning and Infrastructure (which was the former Growth Centres Commission, GCC).
- *Minister* means the Minister administering the TSC Act.
- *Non-certified Area* means an area marked as a non-certified area on a biodiversity certification map.
- *Protection/Protected* in relation to land means land that is protected by a land use zoning under an environmental planning instrument or public ownership arrangements that provide for the protection of biodiversity values as a priority, or another arrangement that provides in perpetuity security for biodiversity on the subject land.
- *Relevant Biodiversity Measures* means the conditions in Schedule 1 of the Biodiversity Certification Order.
- *TSC Act* means the *Threatened Species Conservation Act 1995.*

2. Assessment

Table 1: Assessment of consistency between the relevant biodiversity measures of the Biodiversity Certification Order and Austral and Leppington North Precincts.

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
General				
4	Copies of all final reports, maps, reviews, plans and monitoring data referred to in the conditions of biodiversity certification must be held by the **DoPI** and made publicly available, either on request and/or by a mechanism that is broadly publicly accessible. This does not apply to material that is commercially sensitive or contains sensitive information regarding the location of threatened species, populations or ecological communities or their habitat.	All information required by the RBMs for the Austral and Leppington North Precincts will be publicly exhibited at a date yet to be determined, and an assessment of consistency (this report) will be updated where necessary after exhibition.	Yes	The following information will be publicly exhibited and available following gazettal: • This report in accordance with RBM 35; • Information required by RBM 8, as contained in this report; • Information as required by RBM 13 (**Figures 1-2** of **Annex A**);
Native vegetation to be retained within the Growth Centres				
6	A minimum of 2,000 hectares of **existing native vegetation** must be retained and **protected** within the Growth Centres, either within the **certified areas** and/or the **non-certified areas**, subject to conditions 7 to 13 below.	The draft Conservation Plan identifies: • 48 ha of ENV to be protected in the Austral Precinct (prior to the impact from the SWRL and excluding ENV in the Kemps Ck Nature Reserve); • 52 ha of ENV to be protected in the Leppington North	Yes	The Biodiversity Certification Map (**Figure 1** of **Annex A**) identifies ENV within the Precincts which is required to be retained. The draft precinct plan (based on the final ILP, at **Figure 1** of **Annex B**) protects 116.62ha of ENV within the Precincts through appropriate zoning of land, mapping of Existing Native Vegetation Areas on the Native Vegetation Protection Map and provisions that prohibit clearing of

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
		Precinct (prior to the impact from the SWRL); • 7.14ha of ENV in the Investigation Areas is to be protected. This is a total area of 107.14 ha of ENV that is required to be protected across the Precincts to maintain parity with the draft Conservation Plan. • 0.61 ha of ENV in the Investigation areas will be impacted by the South West Rail Link. Of this 0.61 ha, 0.52ha is on land which is currently non-certified and will be separately offset by TfNSW • When the non-certified ENV to be impacted (and offset) by the SWRL is taken into account, the target for protection of ENV to maintain the 2,000 hectares of ENV across the Growth Centres is 106.62 hectares. • The total area of ENV protected in the Precincts and investigation areas is 116.62ha		ENV as mapped. Changes to the non-certified land boundaries (**Annex E**) are also proposed, to be consistent with the ENV to be protected under the Precinct Plan.

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
Retention of existing native vegetation during precinct planning				
7	During the precinct planning process, the **DoPI** may determine to make areas of **existing native vegetation** within the **non-certified areas** available for development if the clearance of such vegetation is considered necessary for either the provision of essential infrastructure and/or to meet the required Development Parameters specified in the Growth Centres Development Code.	4.03ha of ENV on non-certified land will be removed as per the draft Precinct Plan (**Figure 1** and **Figure 2** of **Annex D**) to enable development parameters to be met and to allow for essential infrastructure.	Yes	The area of non-certified ENV to be removed will be more than offset by the protection of a total of 116.62ha of ENV across the Precincts, 10.00ha more than is required by the biodiversity certification order The total area of currently non-certified ENV proposed to be certified is 4.03ha. The total area of currently certified ENV proposed to be non-certified is 22.48ha. The calculations of protected ENV are based on ground-truthed ENV (see RBM 13) and this explains differences in totals when compared to the amount of ENV required to be protected.
8	In making a determination under condition 7, the **DoPI** must demonstrate by way of information provided during the public exhibition of the precinct plan (where that exhibition occurs after this order takes effect) that the **clearing** of any **existing native vegetation** in the **non-certified areas** will be offset by: (a) the **protection** of an equal or greater area of **existing native vegetation** elsewhere in the Growth Centres; and/or (b) the revegetation and/or restoration of an area of land elsewhere in the Growth Centres, subject to satisfying the following, (i) that the clearance of **existing native vegetation** in the **non-certified areas** will not affect the capacity to achieve overall improvement or maintenance of biodiversity values for threatened species, populations and ecological communities and their habitats, (ii) the revegetated and/or restored areas will be **protected**,	Offsetting of the impacts described for condition 7 will be achieved by the protection of an equal or greater area of ENV in accordance with condition 8(a) (as shown on **Figure 1** and **Figure 2** of **Annex D**).	Yes	The offsetting of impacts on non-certified ENV is required to enable the efficient development of the Precincts, including the provision of essential infrastructure. The 4.03ha of non-certified ENV to be cleared throughout the Precinct will be offset by the protection of an additional 10ha of ENV, above what is required under the draft Conservation Plan. The proposed offsets are in most cases connected with or adjacent to existing non-certified areas along the major creeks to form part of continuous vegetation and habitat

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
	(iii) the extent of revegetation and/or restoration compared to **clearing** of **existing native vegetation** must be undertaken at a ratio of at least 3:1 (to reflect the greater ecological risks relative to retaining **existing native vegetation**), (iv) areas subject to revegetation and/or restoration must be of a suitable boundary configuration and design to support long-term management, (v) revegetation and/or restoration of the proposed areas would not be undertaken under another scheme or regulatory requirement already in operation at the time that the **clearing** is approved (this includes but is not limited to any approvals, and associated conditions of such approvals, that may be required under the *Rivers and Foreshores Improvement Act 1948* and *Water Management Act 2000*), (vi) revegetation and/or restoration will be undertaken by suitably qualified and experienced persons using indigenous plant stock, and (vii) sufficient resources will be made available to undertake the revegetation and/or restoration and any necessary follow-up maintenance and monitoring for a minimum period of 5 years following the commencement of the revegetation and/or restoration.			links through the Precincts. The offset areas of ENV are to be protected through zoning controls, native vegetation protection provisions and changes to the boundaries of certified and non-certified land as described for RBM 6 above.
9	Revegetation and/or restoration may be partly counted towards meeting the overall requirement to **protect** 2,000 hectares of existing vegetation required in condition 6. The amount that may be counted shall be calculated by dividing the total area of revegetation and/or restoration required under condition 8b (iii) by 3. **Note:** for example, if 9 hectares of revegetation is undertaken then 3 hectares may be counted.	N/A	N/A	N/A

Retention of existing native vegetation shown in areas marked with red hatching				
12	Notwithstanding any other conditions of biodiversity certification, in the lands marked by a red hatching on the **biodiversity certification maps existing native vegetation** must not be **cleared** unless it is in accordance with a plan of management or unless such clearance has been agreed to by the **DECC**.	Part of the Kemps Creek Nature Reserve (covered by Condition 12) is within the Precinct boundary however the Precinct Plan does not apply to this land (as shown on the ILP at **Annex B**). An area that is subject to Condition 12 (but is not part of the Kemps Creek Nature Reserve), is within the Austral Precinct boundary and within the boundary of the draft Precinct Plan (see **Annex A, Figure 1**). No clearing of Existing Native Vegetation is proposed on this land as part of the Precinct Plan. These lands are proposed to be protected by maintaining the status of the land as non-certified, zoning areas that contain ENV as Environmental Conservation, and by applying the provision in the draft SEPP that prohibits clearing of vegetation on areas of ENV mapped under the SEPP.	Yes	Areas subject to condition 12 that are within the boundary of the draft Precinct Plan will be protected by the provisions of the draft SEPP.

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
Ground-truthing of existing native vegetation				
13	If new information becomes available after the biodiversity certification order took effect that demonstrates that the vegetation within an area does not otherwise meet the definition of **existing native vegetation**, then for the purposes of conditions 7 to 8 and condition 11 to 12 only the area of confirmed **existing native vegetation** shall be considered.	The mapping of ENV (identified on maps 4 and 5 of the draft *Growth Centres Conservation Plan*) generally corresponds with the findings of additional ground truthing investigations completed in 2010 and 2012 to inform the precinct planning process and only minor changes are recommended. **Figure 2** of **Annex A** provides the results of ground truthing of ENV conducted as part of Precinct Planning. The ground truthing has identified 14.81ha of ENV (in both certified and non-certified lands) that is no longer considered to meet the definition of ENV.	Yes	Mapping resulting from ground truthing is provided in **Figure 2** of **Annex A**. The draft conservation plan maps 107.14 ha of ENV within non-certified areas in the Precincts. Field surveys 101.58 Ha of ENV in non-certified areas. 43.6 Ha of additional high conservation value vegetation. (AHCVV) was identified in the Precincts as part of the Precinct Planning investigations. 17.4 Ha of this is in non-certified lands. For the purposes of conditions 7, 8, 11 and 12, only the area of confirmed ENV has been taken into account (as shown at **Annex C)**. A total of 3.37ha of ENV is in Kemps Creek Nature Reserve (see Condition 12). Because the Precinct Plan does not apply to this land and no impacts on this vegetation are proposed, this vegetation has been excluded from calculations of protected ENV in this report (as shown on Figure 1 of **Annex C**).

Assessment of consistency between Relevant Biodiversity Measures of the Biodiversity Certification Order and Austral and Leppington North Precincts

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
Additional conservation actions within the Growth Centres – native vegetation				
14	During or before the preparation of the relevant precinct plan(s) under the Growth Centres Development Code, a further detailed assessment must be undertaken of the areas adjoining or proximate to the Shanes Park Air Services Australia site marked in blue hatching on the **biodiversity certification maps.**	The study area does not adjoin the Shanes Park Air Services Australia site.	N/A	NA
15	The assessment referred to in condition 14 must examine whether the areas meet the criteria specified in Schedule 3.	The study area does not adjoin the Shanes Park Air Services Australia site.	NA	NA
16	Based on the outcomes of the assessment the **OEH** shall provide advice to the **Minister** on whether the areas should be included within the **certified areas** or the **non-certified areas** shown on the **biodiversity certification maps**.	The study area does not adjoin the Shanes Park Air Services Australia site.	NA	NA
Additional conservation actions within the Growth Centres – plants				
17	During or before the preparation of the relevant precinct plan(s) under the Growth Centres Development Code relating to the areas referred to in the table below, the following actions must be undertaken: ***Species*** *Acacia pubescens* ***Required action*** Potential populations at Cross Street, Kemps Creek and Thirty-second Avenue, Austral – as shown in black hatching on the **biodiversity certification maps**: • survey to confirm the presence of the species, and • if the species is present, provide for the **protection** of the area of suitable habitat for the species to the satisfaction of the **OEH**.	NA (the land that is subject to condition 17 is outside the Austral and Leppington North Precinct boundaries).	Yes	NA

<table>
<tr><th></th><th colspan="2">Relevant Biodiversity Measure</th><th>Austral and Leppington North Precincts - Comment</th><th>Consistent with RBMs and Schedule 7 Part 7 of TSC Act</th><th>Justification</th></tr>
<tr><td colspan="6">Additional conservation actions within the Growth Centres – animals</td></tr>
<tr><td>18</td><td colspan="2">During or before the preparation of the relevant precinct plan(s) under the Growth Centres Development Code relating to the area referred to in the table below, the following actions must be undertaken:</td><td>N/A</td><td>N/A</td><td>N/A</td></tr>
<tr><td></td><td>Species
Green and Golden Bell Frog</td><td>Required action
Potential population at Riverstone – as shown in black hatching on the biodiversity certification maps:
Option 1
• survey to confirm the presence of the species, and
• if the species is present, provide protection of the area of suitable habitat for the species to the satisfaction of the OEH.
Option 2
• if the species is present at Riverstone but cannot be adequately protected to the satisfaction of the OEH, then:
a) undertake targeted survey to confirm the presence of the species elsewhere in the Growth Centres, and
b) if the species is present elsewhere in the Growth Centres, provide for the protection of an area(s) of suitable habitat for the species to the satisfaction of the OEH.</td><td></td><td></td><td></td></tr>
<tr><td></td><td colspan="2">Note: On completion of the above actions the Minister may decide that it is appropriate to amend the boundaries of the area subject to biodiversity certification, in accordance with condition 3.</td><td></td><td></td><td></td></tr>
</table>

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
Additional conservation actions within the Growth Centres – development sites				
19	Within twelve months of the biodiversity certification order taking effect, the **DoPI** (in consultation with the **OEH**) must put in place procedures so that all future precinct plans (excluding any plans that were publicly exhibited before the biodiversity certification order took effect), where practicable, provide for the appropriate re-use of: (a) native plants (including but not limited to seed collection) and the re-location of native animals from development sites, prior to development commencing; and (b) top soil from development sites that contain known or potential native seed bank. For the purposes of condition 19a and 19b appropriate uses may include, but are not limited to, application in revegetation or restoration works and landscaping in the Growth Centres.	These provisions are incorporated into the Development Control Plans (DCP) for the Precincts.	Yes	N/A
Future precinct plans				
35	During the preparation of future precinct plans (excluding any precinct plans already publicly exhibited before this order took effect) the **DoPI** must undertake and make publicly available an assessment of the consistency of the proposed precinct plan with the conditions of biodiversity certification. This may occur during or before any public exhibition of future draft precinct plans.	This assessment of consistency has been prepared to satisfy this RBM. This report will be publicly exhibited with the full precinct planning package.	Yes	This assessment addresses all RBMs applicable to the planning of the Austral and Leppington North Precincts.
Future threatened species listings or discoveries				
36	Where a preliminary determination is made under the Act to list a species, population or ecological community, and that species, population or ecological community may or is known to occur within the Growth Centres, then the **Growth Centres Commission** must (as soon as practicable) provide advice to the **OEH** on whether: (a) the species, population or ecological community is known or	The DoPI is not aware of any subsequent Preliminary determinations that would apply to the Austral and Leppington North Precincts.	Yes	N/A

Assessment of consistency between Relevant Biodiversity Measures of the Biodiversity Certification Order and Austral and Leppington North Precincts

	Relevant Biodiversity Measure	Austral and Leppington North Precincts - Comment	Consistent with RBMs and Schedule 7 Part 7 of TSC Act	Justification
	likely to be present in the Growth Centres; (b) it was considered during the preparation of the draft Growth Centres Conservation Plan by the **DoPI**; and (c) whether the SEPP, and related measures, provides adequate **protection** for the species, population or ecological community.			
37	Based on the information provided in accordance with condition 36, and any other relevant matters, the **OEH** shall advise the **Minister** on whether to formally review, maintain, modify, suspend or revoke the biodiversity certification of the SEPP if the species, population or ecological community is listed under the Act.	N/A	N/A	N/A

3. Conclusion

This report has undertaken an assessment of the consistency of the Austral and Leppington North Precincts planning with the biodiversity certification and the applicable relevant biodiversity measures.

It is concluded that the Austral and Leppington North Precincts planning is consistent with the biodiversity certification of the Growth Centres SEPP, as follows:

- Under the final Precinct Plan 116.62ha of ENV will be protected within the Austral and Leppington North Precincts and the investigation areas. This is approximately 10.00ha more than required under the Biodiversity Certification Order to contribute to the 2,000ha of ENV to be protected across the Growth Centres.
- ENV will be protected through a number of different zones under the draft Precinct Plan (refer to Figure 2 in **Annex C**), including Environmental Conservation, Public Recreation, and Infrastructure. The reasons for applying the proposed zones are discussed further below.
- Development controls are proposed in the draft SEPP to prohibit the clearing of protected ENV as shown on the Native Vegetation Protection Map.
- The 2010 and 2012 (post-exhibition) ground truthing surveys recorded 101.58 Ha of validated ENV in non-certified areas in the Precincts. Only ground-truthed ENV has been included in the calculation of the total area of ENV to be protected. Figure 2 of **Annex B** shows the results of the ground-truthing.

Amendments to the boundaries of certified and non-certified land are proposed as shown at **Annex E**. The boundary amendments are proposed to reflect the outcomes of Precinct Planning, and to ensure the protection of ENV to maintain consistency with the Certification.

Land use zones have been selected based on advice from the OEH in relation to appropriate zoning of land containing ENV, and with consideration of other land use planning factors, including the future ownership, acquisition and use of land in accordance with the draft Precinct Plan and the EP&A Act. While the use of Environment Protection zones is preferred by OEH, in many cases it is not possible to apply this zoning to land containing ENV because of restrictions on the ability of Council to acquire the land under section 94 of the EP&A Act. In accordance with the hierarchy of land use zones preferred by OEH, land use zones have been applied to ENV that is proposed to be protected as follows:

- Where ENV to be protected is on land that is currently in Council or State Government ownership, the E2 Environmental Conservation zone has been used. The exception to this is Craik Park, in the centre of the Precincts, which is an existing Council reserve that contains a sports field and remnant ENV. The RE1 Public Recreation zone has been applied to this land to enable continued use of the sports fields.
- Where ENV to be protected is within large land holdings (and the area of ENV comprises only small part of the total area of land in the one ownership) the E2 zone has been applied. This land is not proposed to be acquired by a public authority, but the

land owner may seek to dedicate the land to Council subject to Council agreement, and if this did occur, the ENV would be protected by the combination of zoning and public ownership. Regardless, the application of the E2 zone to land that is to remain in private ownership is consistent with OEH requirements for protection of ENV.

- Within flood affected land along Kemps Creek and Bonds Creek, and adjacent to a number of other unnamed watercourses, existing rural properties that partly contain ENV are proposed to have a "split" zoning, with the land containing ENV zoned E2 Environmental Conservation and the remainder of the property zoned for a purpose that enables some commercial return either through limited subdivision or construction of a dwelling, or continued agricultural production. Generally, where the existing rural lot is partly within and partly outside the 100 year ARI flood extent, the combination of E4 Environmental Living and E2 (for the land that contains ENV) has been used. This approach also applies to a property on the eastern side of the Precincts at Eighth Avenue, which contains patches of ENV that are linked to a large remnant to the north and east in land owned by the Sydney Catchment Authority. This enables limited subdivision and construction of dwellings on relatively large lots consistent with the flooding and vegetation constraints on the land. Where the existing rural lot is entirely affected by flooding (such as along the northern parts of the Kemps Creek floodplain) the RU6 Rural Transition zone and E2 zone (for the land that contains ENV) has been used. The Rural Transition zone will enable agricultural uses that do not cause significant amenity impacts for nearby residential areas. The ability to further subdivide this land is limited, with minimum lot size controls established to limit further subdivision of land that contains ENV. In both these situations, the land that contains ENV is anticipated to remain in private ownership.
- Where land that contains ENV is to be acquired as part of a larger acquisition for a public purpose (usually for public recreation or drainage) the RE1 Public Recreation and SP2 Infrastructure (drainage zones) have been used. These approaches have generally been applied along the larger watercourses (eg. Bonds Creek and Scalabrini Creek) where the creek channel and margins are to be acquired by Council as part of the drainage network or where ENV is located on land that is to be acquired for public parks and sporting fields (these are often located within floodprone land near the major creeks). Land in these zones will be acquired by the relevant Council

These zones, in combination with the existing native vegetation provisions (refer to Figure 3 in **Annex C**) and the proposed certification boundaries (refer to **Annex E**), will protect the ENV.

Annex A

Biodiversity Certification Map for Austral and Leppington North Precincts

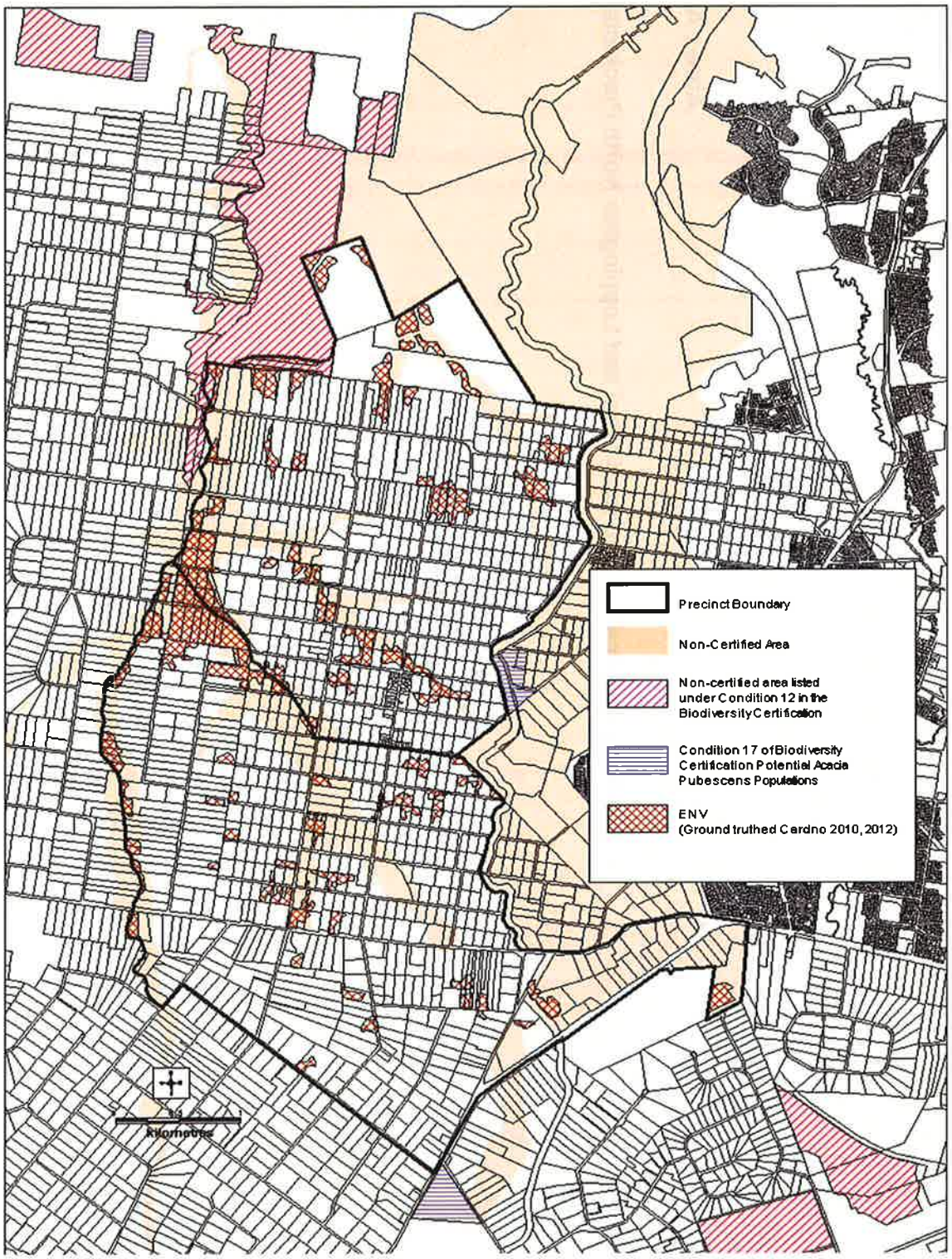

Figure 1: Austral and Leppington North Precincts – Biodiversity Certification Map showing Existing Native Vegetation (as confirmed by 2010 and 2012 ground truthing) and areas listed under Condition 12 and Condition 17 of the Biodiversity Certification.

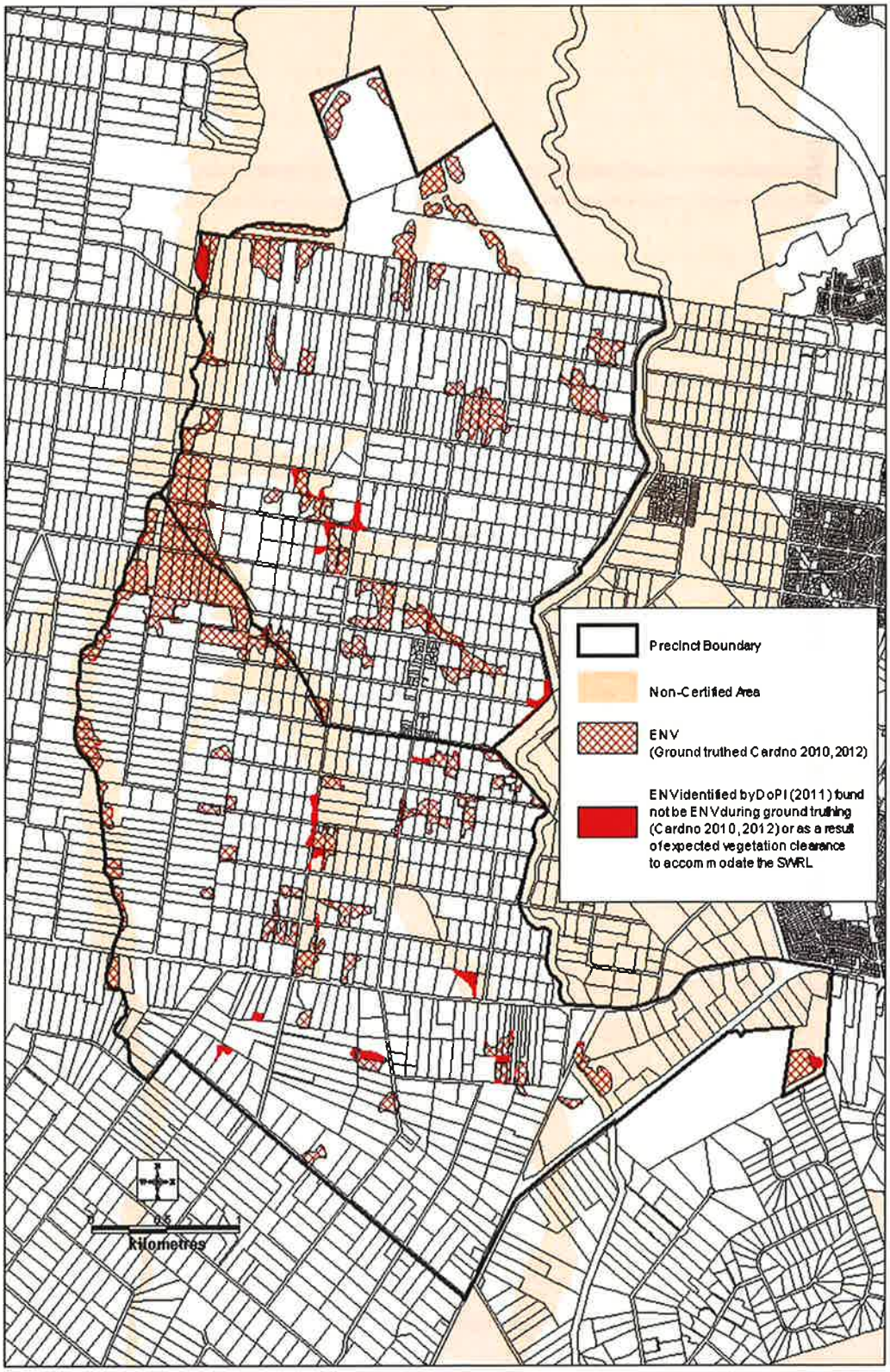

Figure 2 Existing Native Vegetation and vegetation areas found not to meet the criteria of ENV during ground truthing in 2010, 2012.

Annex B

Proposed Indicative Layout Plan for Austral and Leppington North Precincts

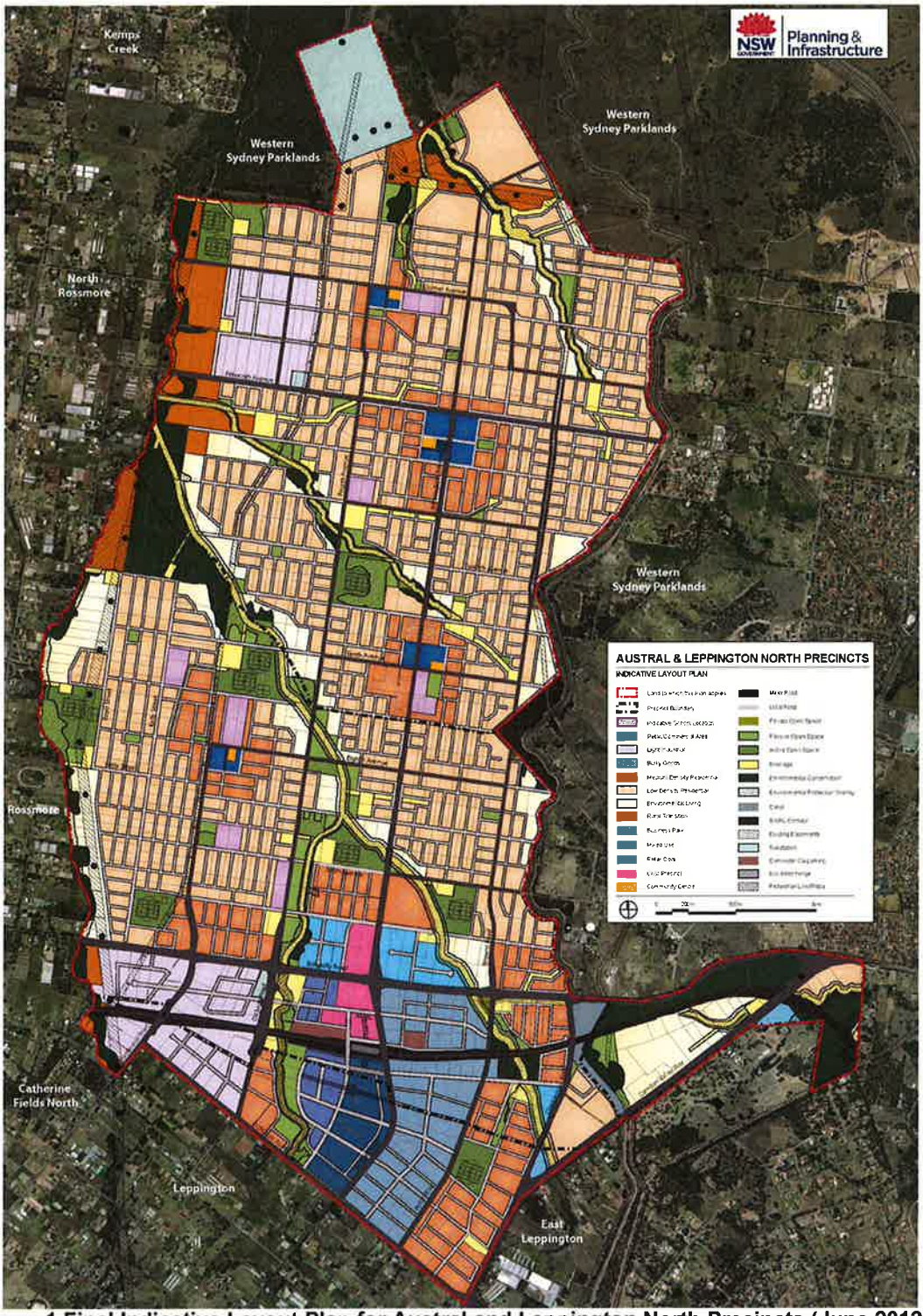

Figure 1 Final Indicative Layout Plan for Austral and Leppington North Precincts (June 2012).

Annex C

Proposed Protection Measures Plan for Austral and Leppington North Precincts

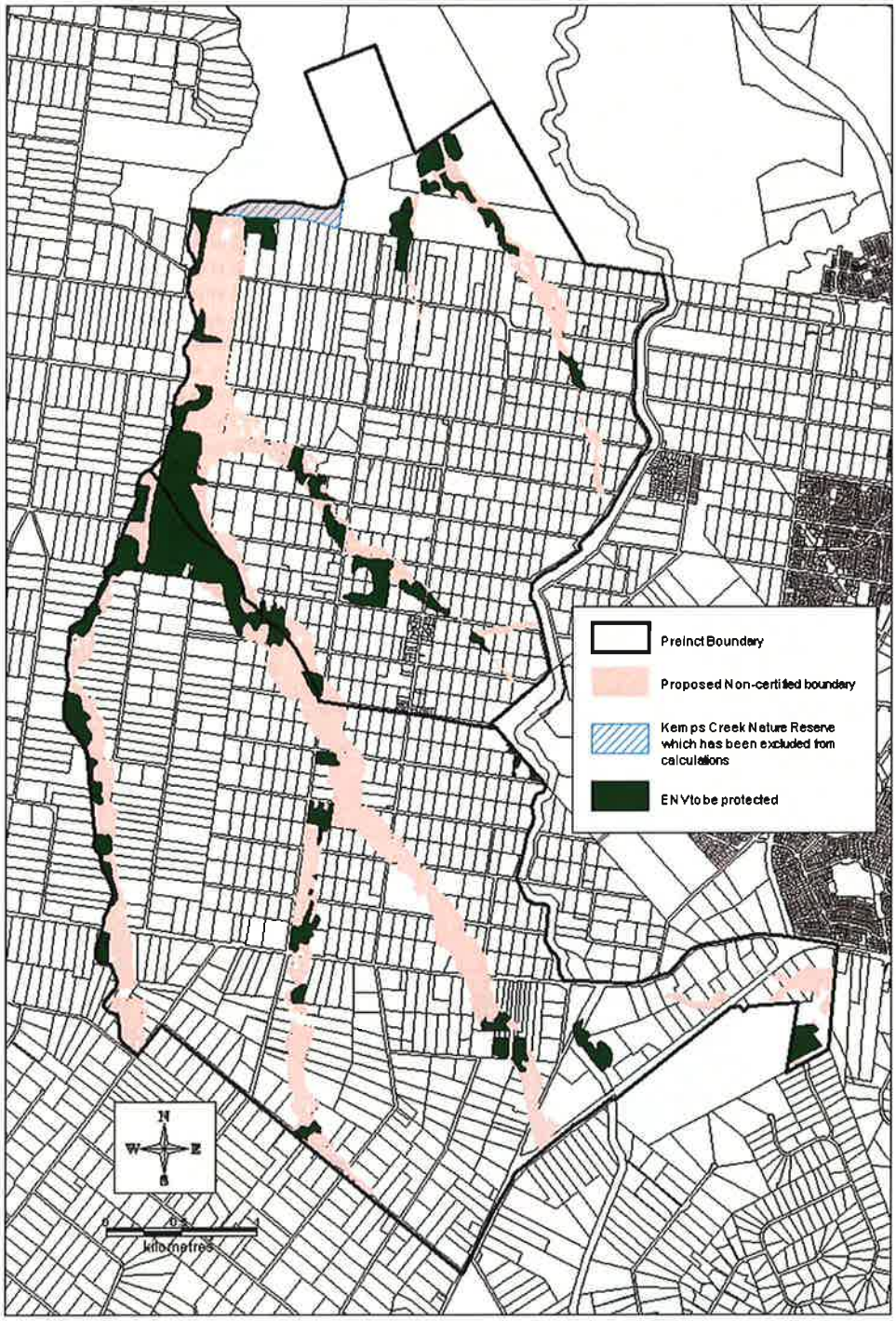

Figure 1 ENV to be protected

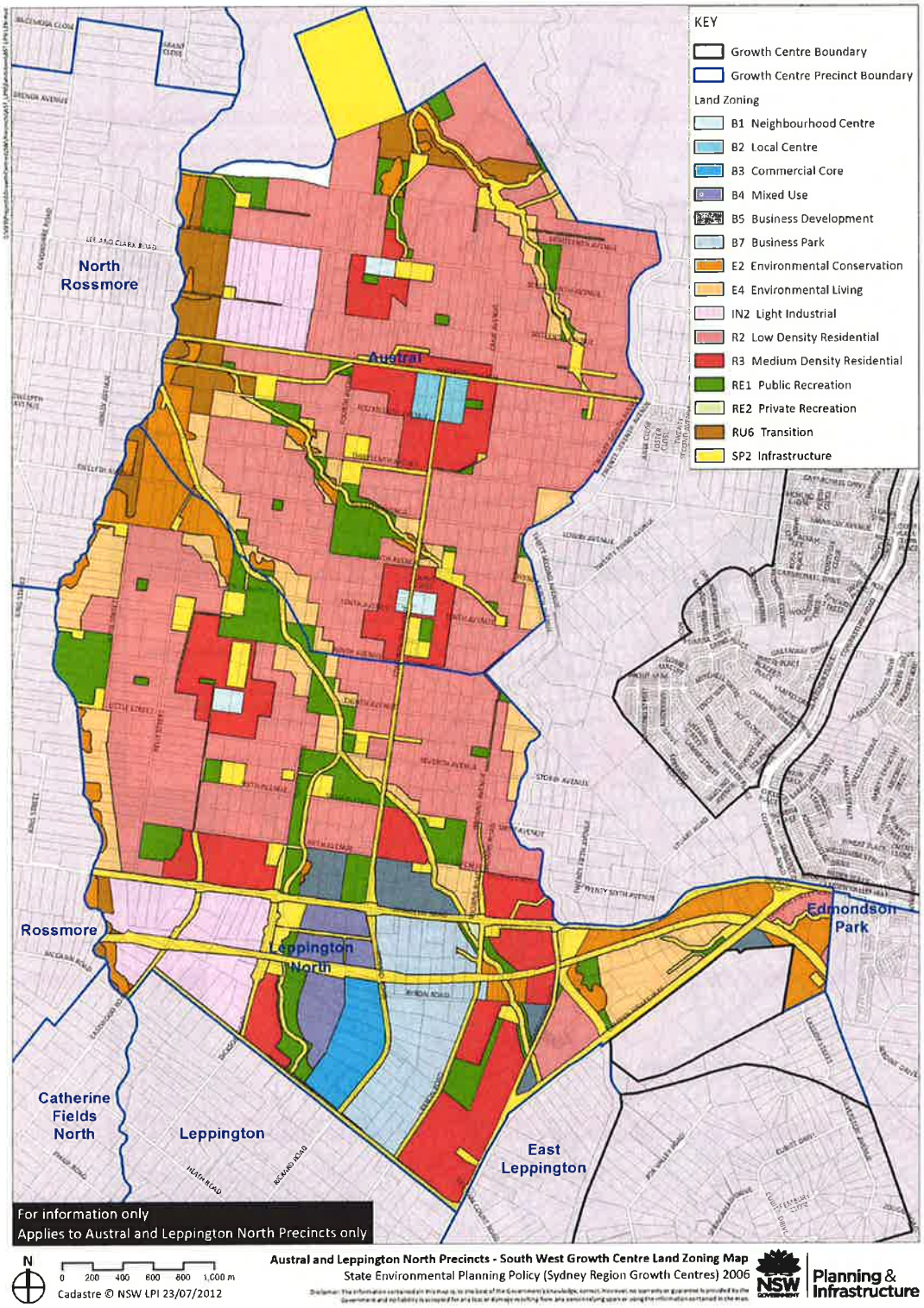

Figure 2 Land Zoning Map

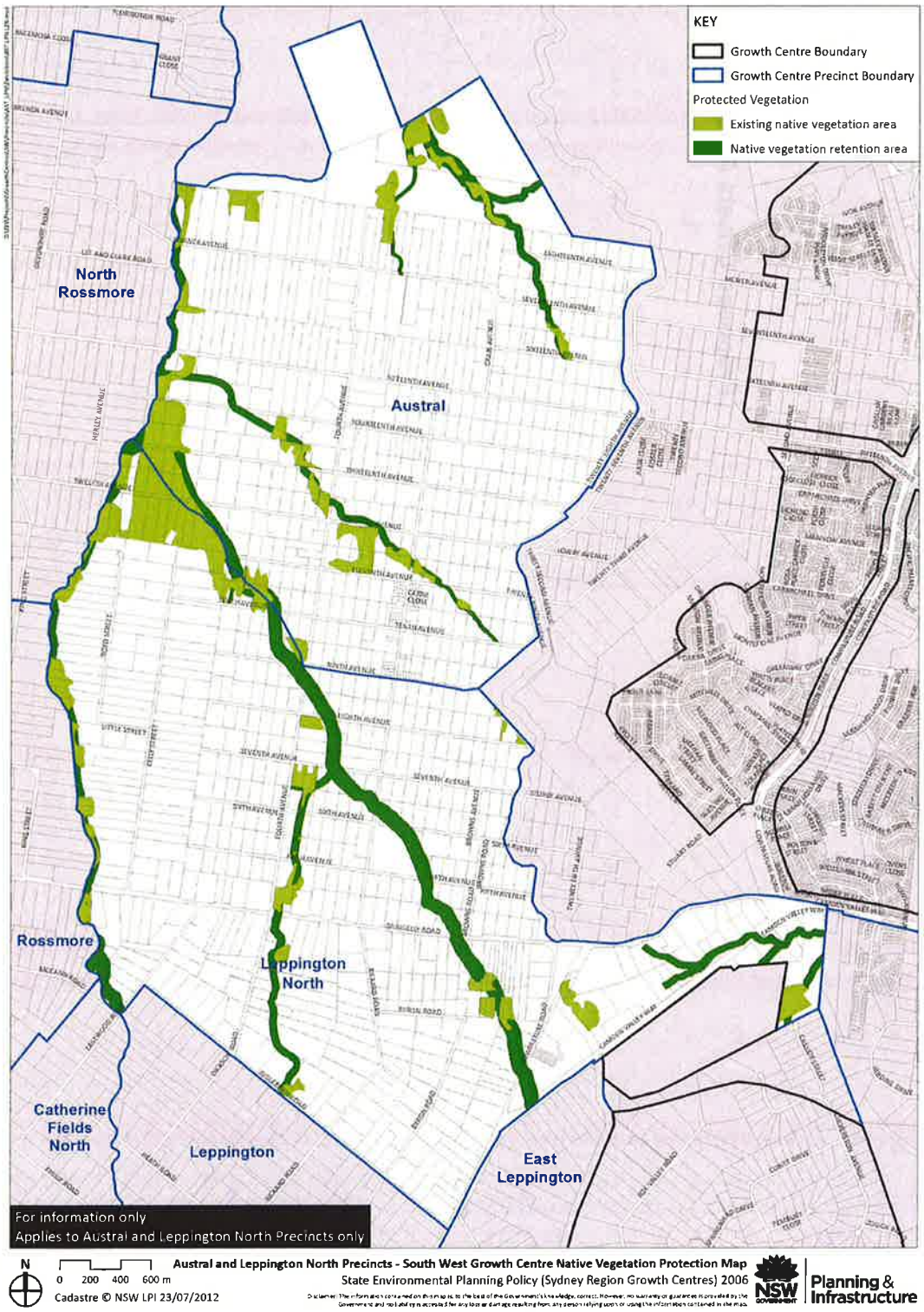

Figure 3 Native Vegetation Protection Areas Map

Annex D

Proposed Offsets Areas Precinct

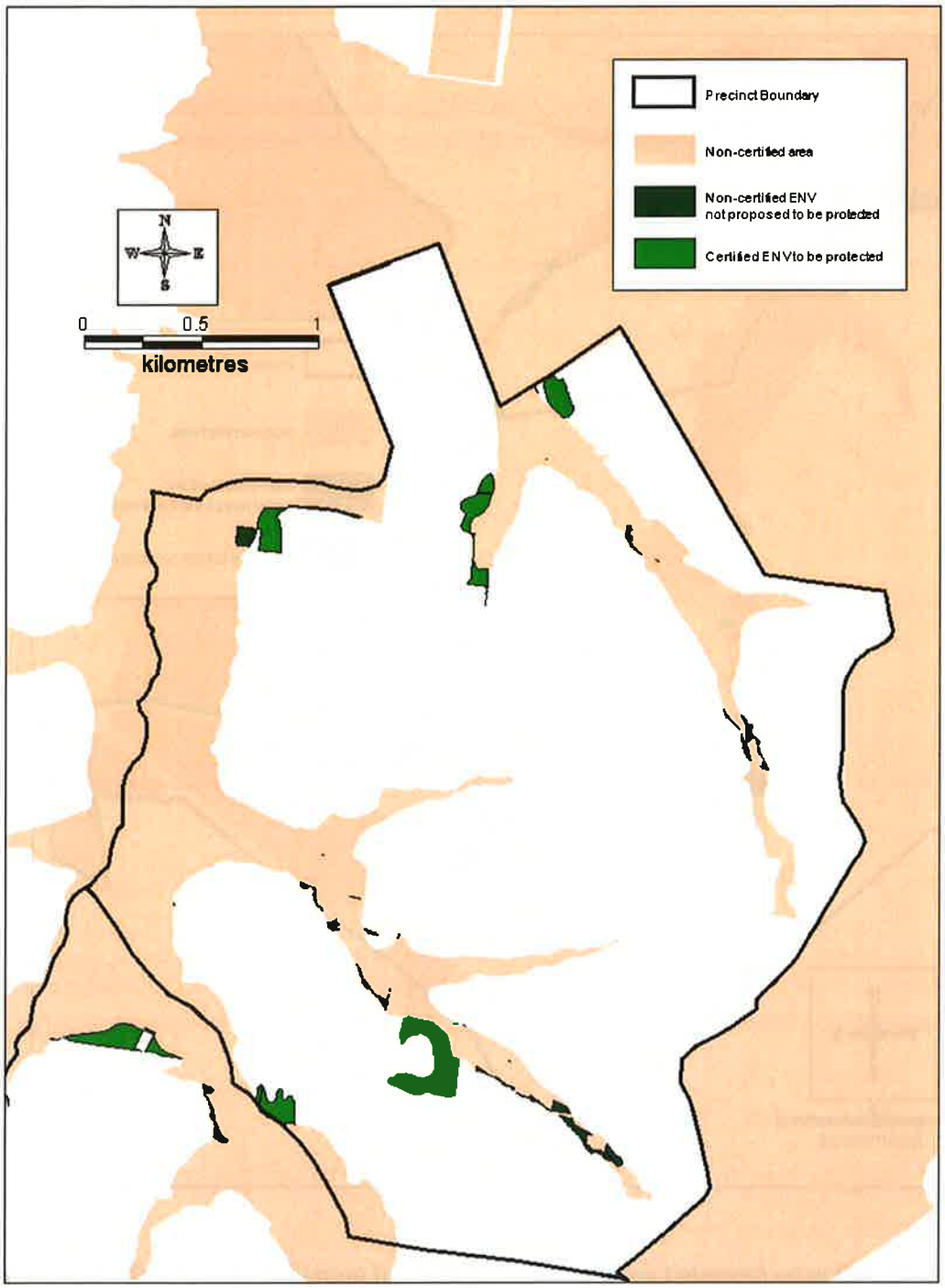

Figure 1: Certified ENV to be protected and Non-certified ENV not proposed to be protected in Austral

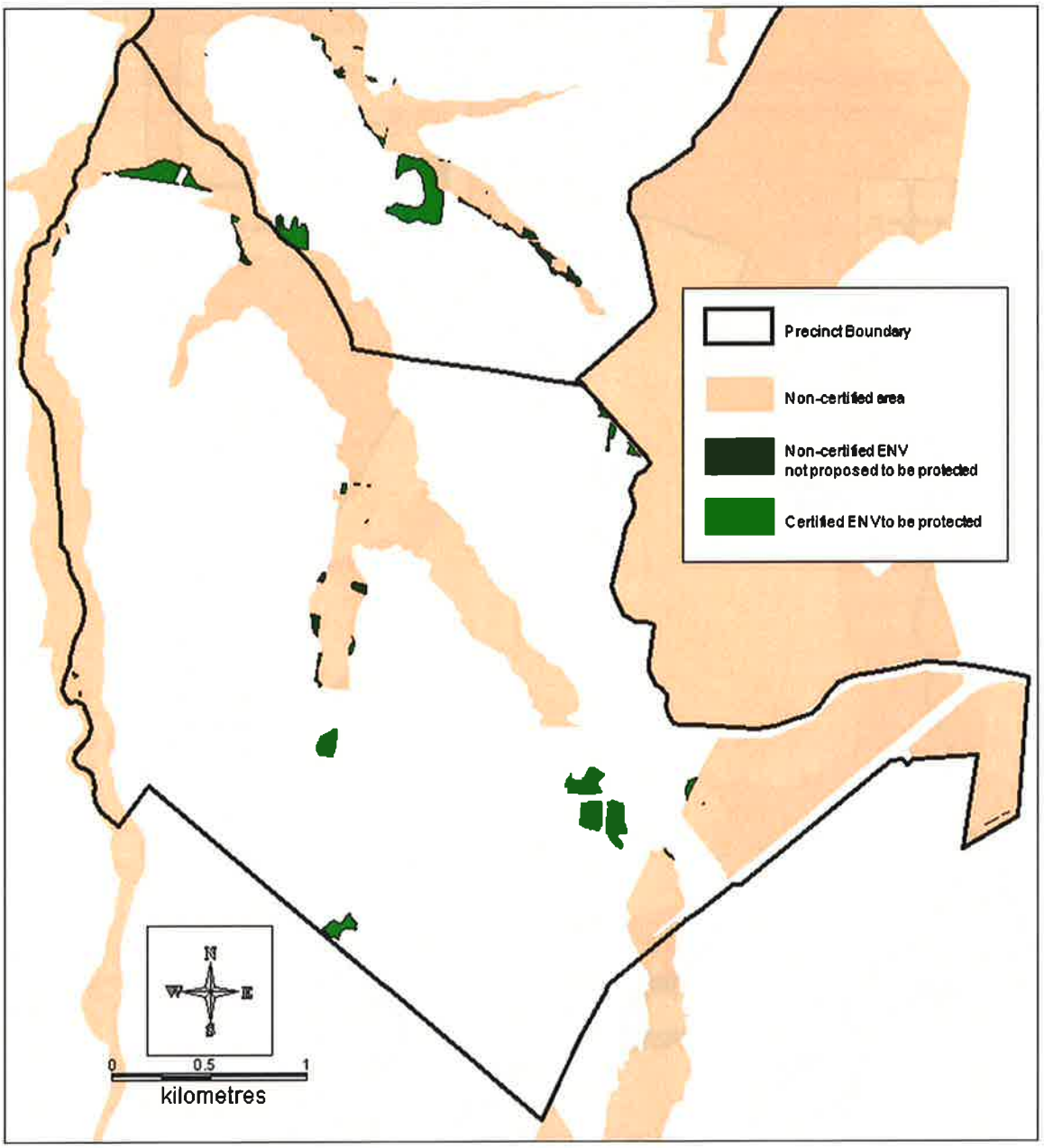

Figure 2: Certified ENV to be protected and Non-certified ENV not proposed to be protected in Leppington

Annex E

Proposed Amendments to Biodiversity Certification Map

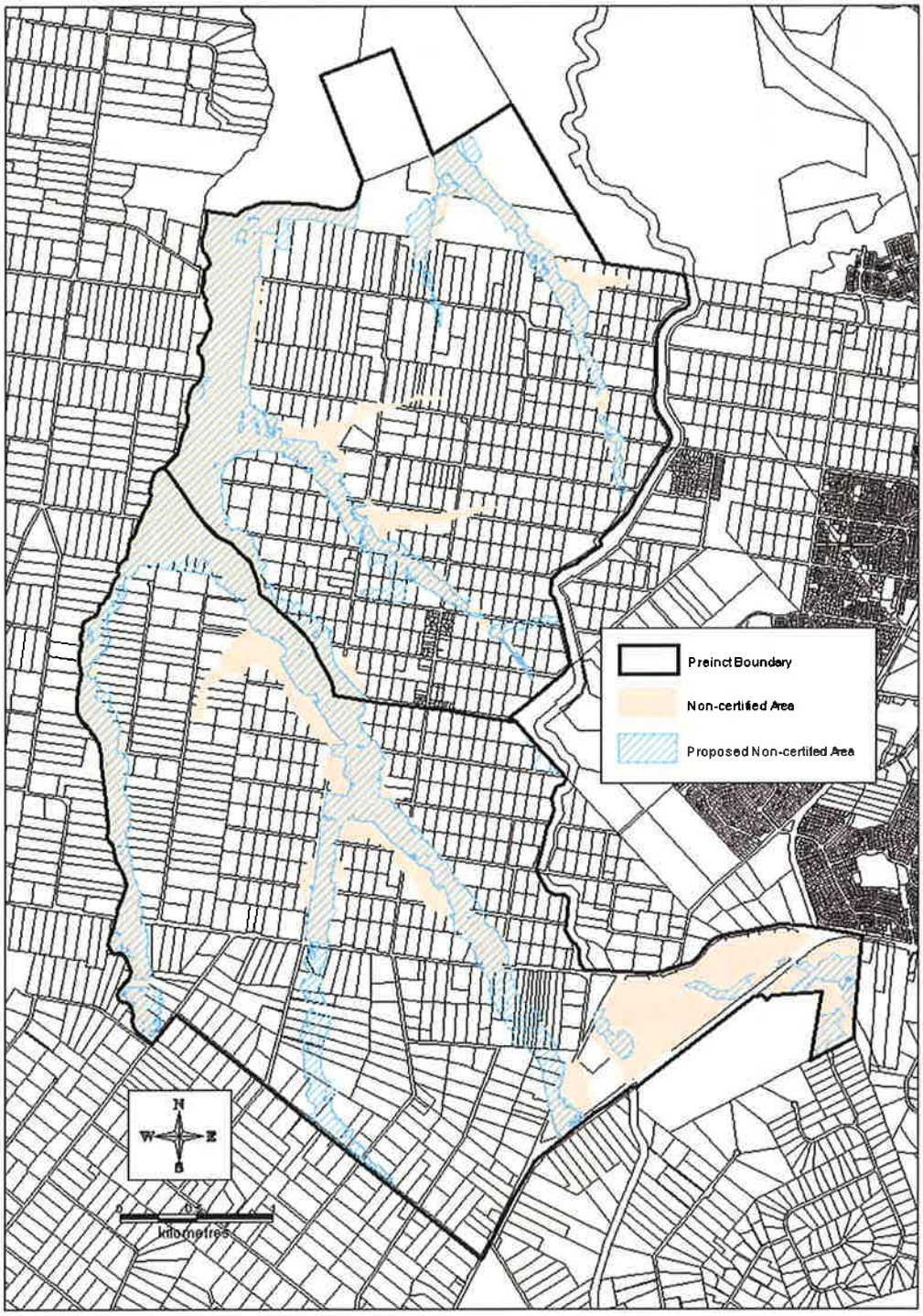

Figure 1: Proposed new boundaries of non-certified area and current non-certified area within the Austral and Leppington North precincts

Appendix N

Ecological Value Results

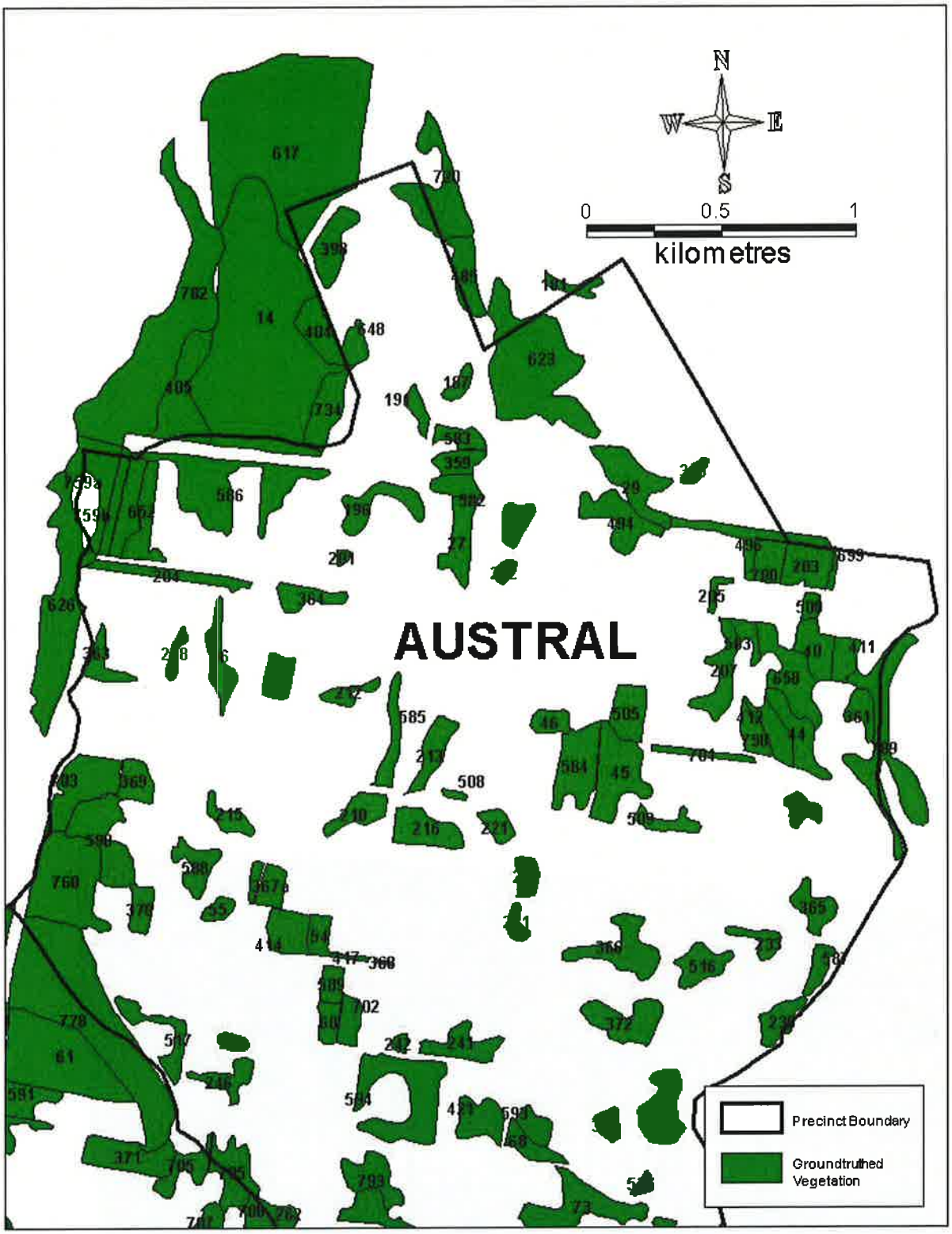

Figure 1 Location of Vegetation areas ground truthed in Austral (Site ID).

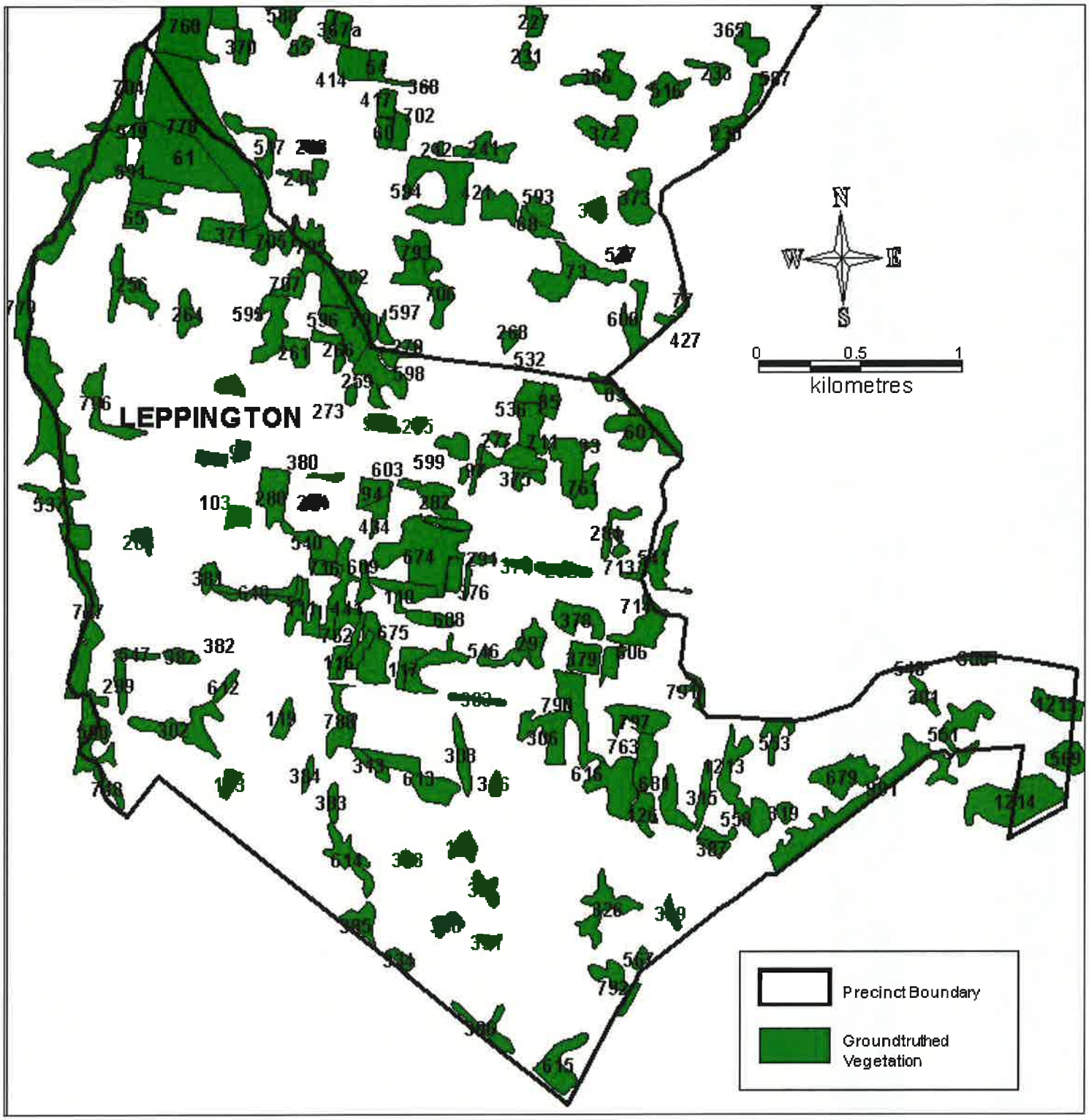

Figure 2 Location of Vegetation areas ground truthed in Leppington North (Site ID).

Site ID (Note 1)	Area	Vegetation Type	Perimeter / Area Ratio	Connectivity Score	Structural Score	GeoSpatial Score	Functional Conservation Value	Threatened Species Value	Recovery Potential Value	Total Ecological Value	Vegetation Community Quality
14	33.2750	Shale/Gravel Transition Forest	0.0089	49.60	50.00	49.71	149.31	115	125	389.308	High
27	2.6195	Shale Plains Woodland	0.0339	15.73	50.00	35.77	101.50	125	100	326.495	High
29	3.7733	Alluvial Woodland	0.0297	43.15	30.00	42.12	115.26	130	75	320.261	High
33	1.4157	Shale Plains Woodland	0.0342	14.11	33.85	29.23	77.19	100	50	227.190	Medium
36	2.1495	Shale Plains Woodland	0.0453	9.07	21.06	26.06	56.19	100	50	206.188	Medium
40	2.3129	Shale Plains Woodland	0.0294	40.73	29.55	37.02	107.30	100	50	257.296	Medium
44	2.6902	Shale Plains Woodland	0.0360	42.14	31.89	34.90	108.93	125	50	283.932	Medium
45	4.7785	Shale Plains Woodland	0.0230	28.23	16.19	46.83	91.24	100	25	216.239	Medium
46	1.1198	Shale Hills	0.0379	12.10	24.81	23.56	60.46	100	50	210.462	Medium

Site ID (Note 1)	Area	Vegetation Type	Perimeter / Area Ratio	Connectivity Score	Structural Score	GeoSpatial Score	Functional Conservation Value	Threatened Species Value	Recovery Potential Value	Total Ecological Value	Vegetation Community Quality
		Woodland									
54	1.1711	Alluvial Woodland	0.0404	11.49	37.88	22.60	71.97	80	75	226.973	Medium
55	0.7735	Shale Plains Woodland	0.0446	12.70	33.08	15.77	61.55	100	100	261.548	Medium
60	1.0693	Shale Plains Woodland	0.0423	8.06	32.18	19.71	59.96	100	50	209.956	Medium
61	9.9139	Shale Plains Woodland	0.0140	47.78	50.00	48.94	146.72	125	125	396.725	High
65	1.7761	Shale Plains Woodland	0.0442	22.18	28.08	24.71	74.97	100	50	224.966	Medium
68	1.4243	Alluvial Woodland	0.0457	30.04	37.69	22.02	89.75	80	25	194.752	Medium
73	5.3792	Shale Plains Woodland	0.0266	18.95	35.10	45.29	99.34	100	75	274.336	Medium
77	0.3973	Shale Hills Woodland	0.0913	10.69	12.92	2.12	25.72	100	25	150.721	Medium
79	1.9873	Alluvial Woodland	0.0307	38.91	35.87	34.52	109.30	100	125	334.296	High

Site ID (Note 1)	Area	Vegetation Type	Perimeter / Area Ratio	Connectivity Score	Structural Score	GeoSpatial Score	Functional Conservation Value	Threatened Species Value	Recovery Potential Value	Total Ecological Value	Vegetation Community Quality
83	1.5869	Shale Plains Woodland	0.0490	17.94	34.74	21.92	74.61	100	50	224.610	Medium
84	1.0293	Shale Plains Woodland	0.0401	10.08	21.12	20.87	52.07	100	50	202.068	Medium
85	1.3295	Shale Hills Woodland	0.0349	25.20	25.29	27.50	77.99	100	25	202.990	Medium
90	0.4323	Shale Plains Woodland	0.0616	5.85	30.10	5.00	40.94	100	25	165.943	Medium
93	0.1674	Shale Plains Woodland	0.1148	34.27	12.92	0.77	47.96	100	25	172.963	Medium
94	1.6385	Shale Plains Woodland	0.0327	6.45	30.74	31.54	68.73	100	100	268.727	Medium
96	0.7065	Shale Plains Woodland	0.0472	14.92	26.76	14.23	55.91	125	50	230.913	Medium
97	0.5571	Shale Hills Woodland	0.0986	24.60	12.92	3.75	41.27	100	25	166.267	Medium
98	0.8789	Shale Plains Woodland	0.0478	2.42	29.49	15.48	47.39	100	25	172.387	Medium
103	1.1544	Shale Plains Woodland	0.0377	11.29	36.22	24.33	71.84	100	25	196.835	Medium

Site ID (Note 1)	Area	Vegetation Type	Perimeter / Area Ratio	Connectivity Score	Structural Score	GeoSpatial Score	Functional Conservation Value	Threatened Species Value	Recovery Potential Value	Total Ecological Value	Vegetation Community Quality
110	2.4713	Shale Plains Woodland	0.0406	43.35	28.21	30.38	101.94	125	75	301.937	High
111	2.2952	Shale Plains Woodland	0.0482	29.84	34.62	25.38	89.84	100	75	264.839	Medium
116	0.8388	Alluvial Woodland	0.0570	40.52	39.49	10.87	90.88	75	100	265.877	Medium
117	1.4531	Shale Plains Woodland	0.0425	21.98	32.24	23.56	77.78	125	75	277.777	Medium
119	1.2329	Shale Plains Woodland	0.0400	0.20	36.35	23.17	59.72	100	100	259.721	Medium
123	0.9171	Shale Plains Woodland	0.0450	14.31	38.37	17.21	69.89	100	100	269.891	Medium
126	1.7956	Alluvial Woodland	0.0354	31.85	40.67	30.58	103.10	115	75	293.105	Medium
129	1.3727	Shale Plains Woodland	0.0352	3.43	38.43	27.69	69.55	100	75	244.549	Medium
181	0.9312	Shale Plains Woodland	0.0662	42.94	30.00	9.42	82.37	125	75	282.367	Medium
187	0.7656	Shale Plains Woodland	0.0520	40.32	12.92	12.50	65.74	100	25	190.743	Medium

Site ID (Note 1)	Area	Vegetation Type	Perimeter / Area Ratio	Connectivity Score	Structural Score	GeoSpatial Score	Functional Conservation Value	Threatened Species Value	Recovery Potential Value	Total Ecological Value	Vegetation Community Quality
191	0.8598	Shale Plains Woodland	0.0547	9.88	30.00	12.12	51.99	100	50	201.994	Medium
196	2.5254	Shale Plains Woodland	0.0397	33.06	38.37	31.35	102.78	125	75	302.776	High
201	0.2524	Shale Plains Woodland	0.0746	13.10	12.92	2.60	28.62	100	25	153.621	Medium
202	0.4958	Shale Plains Woodland	0.0545	12.30	12.92	8.75	33.97	100	25	158.968	Medium
203	2.6673	Shale Plains Woodland	0.0260	18.35	23.27	40.96	82.58	100	75	257.578	Medium
204	2.0214	Shale Plains Woodland	0.0641	45.16	12.92	18.46	76.54	100	25	201.543	Medium
205	0.4790	Alluvial Woodland	0.0872	26.21	12.92	3.46	42.59	62.5	25	130.091	Low
207	2.6148	Shale Plains Woodland	0.0409	28.83	29.55	30.58	88.96	100	25	213.959	Medium
208	0.6908	Shale Plains Woodland	0.0674	6.85	12.92	6.73	26.51	100	25	151.506	Medium
210	1.8780	Shale Hills Woodland	0.0348	23.19	28.01	31.83	83.03	100	50	233.025	Medium

Site ID (Note 1)	Area	Vegetation Type	Perimeter / Area Ratio	Connectivity Score	Structural Score	GeoSpatial Score	Functional Conservation Value	Threatened Species Value	Recovery Potential Value	Total Ecological Value	Vegetation Community Quality
212	1.0004	Shale Hills Woodland	0.0578	5.24	38.30	12.02	55.56	100	75	230.562	Medium
213	2.0335	Shale Hills Woodland	0.0385	23.59	35.74	29.52	88.85	100	100	288.845	Medium
215	1.2669	Shale Plains Woodland	0.0459	12.70	21.47	20.19	54.37	100	50	204.368	Medium
216	2.8153	Shale Plains Woodland	0.0260	24.40	26.76	41.44	92.60	100	75	267.600	Medium
217	1.1406	Shale Plains Woodland	0.0423	15.32	32.82	20.48	68.62	100	50	218.624	Medium
221	1.0673	Shale Plains Woodland	0.0394	13.31	12.92	21.83	48.05	100	25	173.053	Medium
227	1.0793	Shale Plains Woodland	0.0398	4.84	35.10	21.63	61.57	100	100	261.570	Medium
230	1.7142	Shale Plains Woodland	0.0349	4.44	36.35	30.58	71.36	100	75	246.359	Medium
231	0.7250	Shale Hills Woodland	0.0526	2.82	12.92	11.73	27.47	100	25	152.473	Medium
233	1.1275	Shale Plains Woodland	0.0510	6.65	12.92	16.54	36.11	100	25	161.112	Medium

Site ID (Note 1)	Area	Vegetation Type	Perimeter / Area Ratio	Connectivity Score	Structural Score	GeoSpatial Score	Functional Conservation Value	Threatened Species Value	Recovery Potential Value	Total Ecological Value	Vegetation Community Quality
241	2.3533	Shale Plains Woodland	0.0370	23.79	23.49	32.02	79.30	100	75	254.303	Medium
242	0.3509	Shale Plains Woodland	0.0656	29.03	23.49	4.04	56.56	100	75	231.564	Medium
243	0.5949	Shale Plains Woodland	0.0510	3.83	30.74	11.44	46.01	100	50	196.010	Medium
246	1.6359	Shale Plains Woodland	0.0493	44.35	32.24	21.83	98.43	100	125	323.425	High
256	3.4797	Shale Plains Woodland	0.0373	4.64	12.92	36.25	53.81	100	25	178.807	Medium
259	0.6875	Alluvial Woodland	0.0558	19.56	30.10	9.62	59.27	62.5	25	146.768	Low
261	1.4746	Shale Plains Woodland	0.0363	17.14	35.38	28.37	80.89	100	75	255.887	Medium
262	0.1494	Shale Hills Woodland	0.1215	26.81	36.92	0.58	64.31	125	75	264.315	Medium
264	1.5384	Shale Plains Woodland	0.0383	0.20	12.92	27.21	40.33	100	25	165.333	Medium
266	1.4109	Shale Plains Woodland	0.0509	34.88	12.92	19.62	67.41	100	25	192.414	Medium