

Hampton East Urban Forest Precinct Plan 2024



Cover page: A W Oliver Reserve Inside cover page: Basterfield Park IX X



Acknowledgement of Traditional Owners

Bayside City Council acknowledges the Bunurong people of the Kulin Nation as the traditional custodians of the lands and waterways in the area now known as Bayside, and pays respect to their elders past, present, and emerging, as well as to all First Nations' communities who significantly contribute to the life of the area.

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Introduction to the Precinct Plans

In December 2019, Bayside City Council declared a climate emergency and has since prepared a *Climate Emergency Action Plan 2020 – 2025*. Climate change is real and without respecting our environment or changing the way we behave as a society, there will be even greater impacts than those already experienced. Expanding Bayside's urban forest is one way that we can help cool the urban environment in which our residents live.

As an action listed in the *Climate Emergency Action Plan*, the development of the Bayside *Urban Forest Strategy* was undertaken and ultimately adopted at its February 2022 Council Meeting. In addition, Bayside City Council has endorsed *Living Melbourne: Our Metropolitan Urban Forest* in 2019, which sets out regional targets for tree and vegetation canopy cover to be reached by 2030, 2040 and 2050.

The Vision of the Bayside Urban Forest Strategy is:

"Bayside's urban forest will protect and restore ecological systems with special concern for biological diversity and natural processes which will create a cooler and greener Bayside with enhanced amenity and character where people are connected to nature."

The overarching goal of the Bayside Urban Forest Strategy is to increase the urban tree canopy cover from the current 16.01% to 30% by 2040, and to continue this increase into the future.

The Bayside *Urban Forest Strategy* identifies a range of actions to be undertaken over the next four years. A key focus is the preparation of Precinct Plans for each suburb in Bayside to guide tree planting and greening at a local level. Precinct Plans are subsidiary documents to the Bayside *Urban Forest Strategy* and form a key component of the strategy's implementation. Bayside is made up of 9 suburbs and the Urban Forest Precinct Plans will be prepared for each. They will provide tailored direction for increasing canopy cover and urban forest outcomes into the future.

Tree and vegetation (understorey) cover data referenced in these Precinct Plans has been utilised from the Victorian Government's aerial imagery and has been analysed by Council's GIS (Geographical Information System) to determine an approximate level of tree and vegetation cover per suburb.

What is an urban forest?

The urban forest encompasses all the trees, shrubs, grasslands, other vegetation and the soil and water that support them – within Bayside, on both public and private land. The urban forest incorporates vegetation in streets, parks, gardens, plazas, campuses, river and creek embankments, wetlands, railway corridors, community gardens, home gardens, green walls, balconies, and roofs.¹ Fauna is an important component too, with complex interrelations between animals and plants helping to maintain the urban forest.

Bayside's urban forest is made up of native, indigenous and exotic trees, shrubs, grasslands and other vegetation, growing on public and private land, and the soil and groundwater that support them. This includes vegetation in parks, reserves, private

This includes vegetation in parks, reserves, gardens, along railways, waterways, main roads, and local streets, and on other green infrastructure such as green walls and roofs. The urban forest provides habitat to a wide range of fauna.



The overarching goal of the Urban Forest Strategy in Bayside is to increase the urban tree canopy cover from the current 16.01% to 30% by 2040, and to continue this increase into the future.

¹ Resilient Melbourne, Living Melbourne Strategy, 2018, available at: <u>https://resilientmelbourne.com.au/wp-content/uploads/2019/09/LivingMelbourne_Strategy_online3.pdf</u>

The Urban Forest Strategy

Principles:	Strategies:
1. Increase	1.1 Consider the individual needs of Bayside's suburbs and ensure that the approach to increasing canopy cover and urban forest outcomes is tailored to the conditions of each area.
	1.2 Reframe Council's approach to major capital and infrastructure renewal projects as opportunities to increase urban forest outcomes.
	1.3 Through the Bayside Planning Scheme, require development to provide increases to the number of canopy trees provided.
	,
2. Healthier ecosystems	2.1 Increase the tree and vegetation canopy cover that is of a diverse range of species across Bayside.
	2.2 Ensure humans and wildlife can simultaneously and safely access densely vegetated areas, streets and reserves.
•••••	
3. Monitor	3.1 Improve, implement and facilitate Council processes and procedures to assist the monitoring of the urban forest
••••••••••	
4. Maintain	4.1 Ensure the tree removal process is transparent and equitable
	4.2 Reframe our planning and policy framework to give greater priority to existing trees and vegetation when siting new development and ensuring the longevity of any new trees or vegetation by ensuring it is appropriately sited nearby surrounding hard surfaces or infrastructure.
	4.3 Enhance Council's ability to retain existing trees on private property through increased regulation of tree removal.
	4.4 Support the maintenance and retention of trees on public land.
5. Learn and Celebrate	sentiment to tree planting in Bayside.
	5.2 Continue to build upon Council's green image and utilise this plat- form to advocate and partner with key stakeholders to provide greener outcomes across Bayside, metropolitan Melbourne and Victoria.
	5.3 Leverage from the strengths of our network of volunteers, com- munity groups, State Government departments, neighbouring local governments, academics and professionals to support the delivery of community education, information sharing and creating partnerships.

Key Issues

Environmental challenges

Impact of climate change

All trees, including trees on private property, are being affected by climate change. It is important that Council continues to encourage residents to plant climate-resilient trees and vegetation on their property and nature strips. To support this, the provision of readily accessible information and useful tips on how to best plant these types of trees and vegetation will be of great value. Council will also ensure its species palette for streets and parks include the use of more climate-resilient trees and vegetation.

Tree health, age, Useful Life Expectancy, and species diversity

The Bayside Urban Forest Strategy defines key issues across Bayside's urban forest, including climate change, insufficient growth space and natural characteristics (disease, insects, etc.) being significant contributing factors to the health and sustainability of tree coverage across Bayside. This Precinct Plan identifies locations of trees that are in poor health, are reaching senescence and has low useful life expectancy so that appropriate action can be taken in due time.

Tree survival rate

A high proportion of street and park trees that have been planted have struggled to survive either during or after their initial period of maintenance (first 2 years). Expanding the urban forest and increasing tree canopy coverage will be challenging, especially if high tree attrition continues to occur.

Developmental challenges

Trees on private property

Trees on private property make up a significant proportion of Bayside's urban forest. The removal of trees on private property is a significant and challenging issue to address as the management of private trees, to some extent, falls into the hands of individual property owners. Partnering with the private owners and undertaking a precinct-based approach to the protection, retention and enhancement of the urban forest will allow Council to consider the local opportunities for vegetation and tree plantings, process improvements and other locally specific issues.

Planning permits involving vegetation removal

There are several mechanisms currently in place within the Bayside Planning Scheme that seek to protect vegetation in certain areas of Bayside and require a planning permit to be granted for tree or vegetation removal. These mechanisms include but are not limited to the Vegetation Protection Overlay (VPO), Significant Landscape Overlay (SLO), Heritage Overlay (HO) and Erosion Management Overlay (EMO).

Surrounding infrastructure

Street trees are located alongside public and private assets that include footpaths, roads, fences, overhead powerlines and underground services. This pressure is similarly felt on private property for medium and high density developments where there are competing uses and infrastructure to be sited. While there are management and design techniques that can mitigate most of these issues, it is not always easy, particularly with established trees. Established trees have larger roots that can impact footpaths and roads, creating potential hazards that need to be fixed.

Social challenges

Older people, children, and people with disabilities

More vulnerable members of the community include older people, young children and people with disabilities and their carers. While trees bring many benefits, they can also create challenges. Maintenance of trees can be challenging for older people or people living with disabilities. Particularly large trees that overhang private property or within the property that can become hazardous through

debris that create trip and slip risks. Aging and/or disability can prevent some residents from being able to manage the debris from trees, requiring the use of private gardening services. Bayside Council's *Disability Action Plan 2021-2025* states that over 14,000 people living in Bayside have a disability and over 4,000 people need assistance in their day-to-day lives. This assistance is required because of disability, long-term health conditions or old age. The greening of activity centres can contribute to a healthier and more comfortable place.

Safety

There are a number of elements that contribute to people feeling unsafe, including low visibility and lack of passive surveillance from nearby residents and/or other groups. Within streets, Council plants and maintains trees to ensure there is no foliage to block sight lines. Trees can contribute to this problem if not managed correctly as they have the potential to block visibility from the street.

What will the Precinct Plans achieve?

A key action from the Bayside *Urban Forest Strategy* is the preparation of Precinct Plans. Each Precinct Plan will be informed by community consultation and will provide set targets to respond to the individual needs, challenges, and aspirations of the locality.

The Precinct Plans will help guide the implementation of the Bayside *Urban Forest Strategy* in Bayside and direct Council's focus to areas with low vegetation, to protect and enhance neighbourhood character and help achieve the objectives of the Bayside *Urban Forest Strategy*.

The primary objective of the Precinct Plan is to prioritise areas of greatest need, including areas with the lowest existing percentage canopy tree cover, as well as areas that are strategically located to mitigate potential impacts from urban heat island effects (including within major activity centres that are experiencing increased density and construction activity), areas of declining canopy or aging trees, highly trafficked pedestrian routes and gaps or vacancies in public planting.

Within this document, specific direction is provided on the selection of appropriate trees for the precinct. The Precinct Plans are performance-based in that they establish the desired outcomes for streets but do not prescribe specific species for each location. Park and significant boulevard trees will be planted using existing master plans and site-specific plans to respond to the individual needs, challenges, and aspirations of the locality. This document focuses on the suburb of Hampton East.



Map 1. Hampton East's location within Bayside

Suburb Profile – Hampton East

Information in this Suburb Profile was accessed from Profile.id which utilises 2021 census data from the Australian Bureau of Statistics and population, household and age structure forecasts.

Population

Hampton East is a changing suburb, both physically and demographically. Hampton East is currently experiencing moderate population growth, having increased by 272 people from 4,797 in 2016 to 5,069 in 2021 and is forecasted to increase to 6,329 (increasing by 24.4%) by 2041.

Age structure

By 2041, it is anticipated that 30% of Hampton East residents will be above 60 years of age, which is an increase from the current 21.1% (2021). It is expected that older populations will have greater difficulty maintaining gardens and are susceptible to environmental challenges, such as heatwaves and increasing temperatures.

Senior residents who decide to remain in their family home after their children move out become what is known as 'empty nesters'. Many low density residential dwellings in Hampton East typically have moderate sized gardens with which empty nesters may have difficulty maintaining and therefore may require assistance now and in the future.

Residential developments

The majority of new residential development has been delivered within the Hampton East Activity Centre. This activity centre encourages the provision of high-quality housing at a range of densities to meet the needs of a diverse community by offering a range of housing choices. Looking to the future, residential development forecasts assume the number of dwellings in Hampton East will increase by an average of 43 dwellings per annum to 3,260 in 2041. It is anticipated these new dwellings may come in the form of dual occupancies, town houses and low-rise apartment buildings, all of which will reduce the available permeable surfaces, especially when the conversion has been from a previous 1 dwelling on a lot. Minimising permeable surfaces can impact the ability to plant trees and allow them to grow to maturity and provide large canopies.

As the number of units and apartments across Hampton East increases, housing will diversify, providing ageing residents with the opportunity to downsize to smaller homes, while staying in their local community. Smaller homes for senior residents provide a number of benefits, including a minimal need for garden maintenance.

In addition to residential growth, commercial and retail development will continue to occur in the northeastern part of the suburb alongside Nepean Highway and South Road, which is within the Activity Centre Zone 1 (ACZ1). Within this section of the activity centre, the following is encouraged:

- A health focus within the South Road Commercial Precinct to reinforce this existing specialisation, and
- The establishment of a clear brand for the centre as a lifestyle destination which specialises in outdoor-adventure retail, health services, cafes and high-quality diverse housing.

Climate change

The effects of climate change are anticipated to have a significant negative impact on tree canopy and vegetation. Due to climate change, there will be an increase in severe weather events including more intense rainfall over summer, leading to more frequent and severe flooding events. Trees can play an important role in mitigating the impacts of a flooding event. The soil under trees and vegetation absorbs water as opposed to urban impervious surfaces (such as pavements and roofs) over which water flows into the drainage system, raising the potential for flooding when the system is placed under strain. The leafy canopy of trees also spreads out the rainfall and slows it down. This gives more time for the soil underneath to absorb the rainfall, resulting in less and slower runoff. As a result, the risk of flooding is reduced. When flooding does still occur, the volume and speed of the flood will be reduced. This will also reduce the need for larger stormwater gutters and pipes.

Mode of transport

In 2021, 39.6% of Hampton East residents travelled to work by car. The Hampton East Activity centre is within close proximity to the Moorabbin Station which services the Frankston Line. There are also various bus networks that service the suburb.

Hampton East Forecast for 2041



Note:Hampton East suburb population and age data is a 2023 estimation for 2041, which was retrieved from the Australian Bureau of Statistics. All other data shown was retrieved from profile.id (2021).

Aerial of Hampton East



The Vision for Hampton East's Urban Forest:

The Hampton East Urban Forest will continue to be enhanced in places where it is needed most, transforming the suburb to one with a rich urban forest featuring avenues of large canopy street trees that compliment current and future open spaces.

Planning controls applying to Hampton East

Residential and Activity Centre Zone

The majority of Hampton East's residential land is located within the Neighbourhood Residential Zone (NRZ), which is a planning zone that is applied to areas where there will be minimal residential growth, seen on Map 2. The NRZ has a maximum building height of two-storeys and where any new development does take place, it is usually alterations or additions to existing dwellings or the construction of a new detached dwelling or dual occupancy in place of the original detached dwelling.

Residential development within the Hampton East Major Activity Centre (which is within the Activity Centre Zone (ACZ1)) has seen a variety of dwellings being constructed in recent years and has allowed for heightened residential density outcomes. As there are various precincts that form part of the ACZ1, maximum building height limits range from three to six storeys depending on the proximity to the heart of the activity centre. This allows for higher density apartment developments in the centre with transitional built form sizes being encouraged on the edges of the activity centre.

Public Use Zone (PUZ) and Public Park & Recreation Zone (PPRZ)

Both of the above mentioned zones have been applied to sporting ovals, parks and reserves located within Hampton East.

Heritage and Built Form Overlays

Several Heritage Overlay Schedules (HO) and Design & Development Overlay Schedules (DDO) are applied to land within the suburb which shape the way new development can be delivered. Heritage Overlays, in particular, provide for the protection of heritage significant buildings and places.

Neighbourhood Amenity Local Law 2021

Local Laws are laws utilised by Council to respond to issues and community needs within a local context. The *Neighbourhood Amenity Local Law* 2021 applies to the Bayside municipality, including trees on private land. The law determines that any tree on private land is protected if the *"single or combined tree trunk circumference is 155 centimetres or more at one metre above ground level."* If a tree is protected it means that a permit must be acquired from Council in order to remove or prune it. The same permit requirements apply to any tree on Council's Significant Tree Register.

Landscape Guidelines

A review of Bayside's Landscape Guidelines was adopted in December 2023. The changes have been made in response to the adopted Urban Forest Strategy action which outlines that Council must provide further guidance on species selection, sizes, and trees suitable for private property.

The new landscape guidelines focus on improving the quality of tree plantings through soil type and volume, site characteristics, and correct species selection. This way, it can be ensured that canopy tree plantings that are selected are the largest and most ideal species for its location. This will provide the trees with a better chance of growing to maturity. By focusing on canopy spread, species selection can be refined for better canopy coverage and consideration of a tree's location.

The changes to Bayside's Landscape Guidelines require new development to provide increases to the number of canopy trees and high-quality landscape outcomes. Furthermore, the Species Palette listed in the Appendix 3 to this Precinct Plan has also been utilised as the list of species to encourage selection from when preparing a Landscape Plan.

Local Law Review

A key action of the Urban Forest Strategy includes reviewing the Management of Tree Protection on Private Property Policy. An update to the Local Laws Guidelines will protect more trees and strengthen alignment between planning and local law permit applications for tree removal. The updated Local Law Guidelines will protect more trees by removing some permit assessment considerations, such as consideration for the number of other protected trees on the site, or neighbours support for removal. Trees will also now be assessed for its habitat value to native wildlife.

For tree removal permit applications, special circumstances including medical conditions, disability, access safety or financial hardship will be referred to Council's Community Care unit. The Community Care unit will establish what support may be available to vulnerable resident and whether there is any reasonably practicable way to manage issues directly related to the tree other than removal.



Map 2: Planning Zone Controls in Hampton East

Community Engagement Findings

Community engagement was undertaken for a total of seven weeks from 28 August - 15 October 2023. The community engagement period consisted of pop-up sessions, online survey, presentations to community groups, opportunity to provide written submissions and 1:1 meetings with Council.

Overall, there were a total of 368 contributors from the pop-up events and 111 online survey participants. Of the 111 survey participants, 6(5.41% of the total respondents) were from Hampton East.

Survey participants that live in Hampton East were asked how they feel about the plan overall. Hampton East participants provided the following responses:

- 23.08% liked the plan
- 15.38% thought the plans were ok
- 38.46% had some concerns
- 15.38% had many concerns
- 7.69% were unsure how they felt

Table 1: Comments made by survey participants regarding Hampton East

Comments	Number of participants who raised concern
Plant more Native and Indigenous plantings	4
Concerns about the removal of the Badminton Club	2
Concern that the urban forest should be focussed only on council land, not private	1

The eight face-to-face engagement sessions were an opportunity for community members to provide feedback on priority planting locations and preferred species. The pop-up events were held at various locations, these included:

- Bayside Community Nursery
- Middle Brighton Baths
- Black Rock Gardens
- Youth FriYay Session
- Bayside Farmer's Market
- Thomas Street Playground
- Bay Road Heathland Reserve
- Bayside Community Nursery -Gala Day

For each pop-up session participants were asked which plants they would love to see more of in their neighbourhood. The sticker boards were separated into three categories these were:

- Indigenous species that were native to Bayside
- Native species that were native to Australia
- Exotic species that have been introduced to Australia

The following images show the indigenous, native and exotic species that Hampton East residents would like to see more of in their neighbourhood.

Top Indigenous Plantings – Hampton East







Acacia mernsii (Black Wattle)

Solanum Laciniatum (Kangaroo Apple)

Kunzea leptospermpides (Yarra Burgan

Top Native Plantings – Hampton East



Eucalyptus spp. (Gum trees)



Callistemon (Bottlebrush)



Tristaniopsis laurina (Water Gum)

Top Exotic Plantings – Hampton East





Osteospermum spp. (African Daisy)



Salvia verticillata (Lilac Sage)

Elephant Ears

Hampton East Neighbourhood Character

Hampton East is a diverse suburb that is currently undergoing housing growth. It is important that new development respects, supports and enhances the cherished characteristics of their surrounding neighbourhood. Clause 15.01-5L 'Bayside preferred neighbourhood character' in the Bayside Planning Scheme provides general objectives and policy guidelines for neighbourhood character precincts that have been set across the municipality. The Neighbourhood Character Zones are shown on Map 3.

For many of the streets within the suburb, there is a mix of new contemporary detached dwellings and dual occupancies amongst intact single and double storey post-war dwellings that reflect a variety of architectural styles from that time. Dwellings are often double or triple fronted and comprising cream and red brick, weatherboard or fibro materials. Front setbacks vary across the area from 6 to 8 metres and dwellings are usually setback from both boundaries with garages sometimes built to the boundary, particularly for new residential developments.

Gardens are predominantly low lying, with exotic shrubs and lawn, with occasional large trees allowing views to the dwellings and providing a backdrop of vegetation. For those properties that have front fences, they are predominantly low or open style. Street tree planting is mixed and sporadic however appears to be more focussed along main roads and where there is proximity to parks and reserves.





Map 3: Hampton East Neighbourhood Character Precincts

The Urban Forest of Hampton East

In Hampton East, there is approximately 14.5% of tree canopy cover and 17% of understorey cover (2019), which is slightly below average in comparison to all other suburbs within Bayside. While from aerial imagery (Map 4) it appears that trees within Hampton East are quite evenly spread throughout the suburb, from street view it is evident that canopy coverage is intermittent and ranges in varying sizes. Further, it is evident within the activity centre commercial area that there is a lack of tree and vegetation coverage upon those streets proximal to the Nepean Highway. Outside of these areas, there are some areas of significant tree and vegetation cover which is generally near or surrounding sporting ovals, reserves and open spaces.

History

Before European Settlement, Hampton East was inhabited by the Bunurong people of the Kulin Nation. In the 1850s, the area encompassing Hampton East was subdivided into 0.8 hectare parcels which were predominantly used for market gardening. The area remained rural and relatively unpopulated until World War II, despite regions to the west and south becoming urbanised before then. Suburban development began to increase following World War II, due to the heightened commercial and industrial development in proximity to the Nepean Highway. By the 1970s the suburb was largely developed.

Looking at aerial imagery from 1970, there is notably very little tree canopy cover across the suburb. This was likely subject to the fast increases in development and the conversion of land within Hampton East from bare, vacant land (with little vegetation, having been cleared for market gardening) into a mostly residential neighbourhood. It appears that the majority of tree planting has occurred since the 1970s and continues to occur to help enhance the urban forest within the suburb.

Contemporary issues impacting Hampton East's Urban Forest

There are a number of contemporary issues which impact the urban forest of Hampton East, causing a decrease in canopy cover. These issues are associated with climate change, and its flow on effects, including the urban heat island effect and erratic weather events, which impact upon and damage the health and viability of tree and ground cover vegetation. Increasing tree and vegetation cover will help alleviate rising temperatures and dramatic changes in climatic conditions by providing shade and cooling effects.

For new developments on private and public land, Council considers all possible design solutions and ensures the application has met all relevant criteria. However, even with these measures in place, the removal of tree and understorey vegetation is an issue facing Hampton East and is likely to increase due to a higher level of medium density residential development and the limitations on permeable surfaces appropriate for planting.

The removal of established gardens, large trees and understorey plantings is contributing to a loss of the distinct vegetation character and impacting the biodiversity. Other issues impacting the urban forest include:

- Trees nearing the end of their useful lifespan can also create safety issues particularly for more vulnerable residents. As a tree becomes older it loses its vitalityas is more prone to falling or losing limbs. Council monitors the health of its trees to ensure any hazardous trees are removed.
- The State Government has proposed the removal of the level railway crossing at Wickham Road. The construction of this new infrastructure will likely result in the need to remove existing trees and vegetation. Council will need to advocate to the State Government to replace the lost vegetation, and possibly gain more, by replanting on the site once the construction is completed.

• Vandalism of public and private trees is another issue contributing to tree canopy loss across Bayside. Illegal removal, lopping or poisoning of trees occurs throughout Bayside by members of the public for personal gain. Another common example is the vandalism of trees to limit fruit, berry or leaf drop on footpaths and private property.. Unpermitted removal, destruction, pruning and interference with trees and vegetation is illegal in Bayside. To deter vandals, Council has adopted a strong stance on vandalism and has installed signs and advertised on social media platforms an offering of rewards for information when an act of vandalism has occurred.



Image 1. Basterfield Park



Image 2. Spring Road Park



Image 3. Moorabbin West Reserve

Tree canopy cover across Hampton East and various land uses

As indicated previously in this document, Hampton East has approximately 14.5% tree canopy cover and 17% understorey cover (2019) which is slightly below average in comparison to other suburbs in Bayside. Of the 14.5% of tree canopy cover within Hampton East:

- 63.3% is located upon private residential and mixed-use areas;
- 24.3% is located upon streets;
- 11.5% is on open spaces/reserves; and
- 0.91% is on public use areas

As seen on Map 4, the coverage of trees upon private residential property is comparatively high when compared to other suburbs that also are undergoing increases in residential development. However, there appears to be less tree canopy coverage on open spaces in comparison to other suburbs which is likely due to the variation in uses of these spaces. There are several sporting ovals within Hampton East which required the clearing of trees.

There is also limited canopy cover within the Hampton East Major Activity Centre's commercial area. This area has limited setbacks, limiting the potential to provide large canopy trees. In such areas, innovative ideas such as green roofs and walls should be considered to increase greening.

In 2022, there were 3,073 trees managed and maintained by Council throughout Hampton East, including 2,297 street trees, 775 park trees and 1 other location-specific tree. Monitoring the age, health and useful life expectancy of these trees is important to ensuring that Council understands the local conditions, maintains tree and understorey plant populations, and effectively plans for future planting programs and strategies across Hampton East.

In Hampton East, there is approximately 14.5% tree canopy cover and 17% understorey cover. The suburb of Hampton East will be a major contributor towards achieving Council's goal of 30% tree canopy cover by 2040 through increased planting on streets and within open spaces, and, where appropriate, through enhanced understorey cover within the public and private realm.





Graph 2. Tree canopy cover over various land uses in Hampton East

	11.47%	0.91%		63.2	9%			24.33%		
0%	ы́ 10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
	Open Spaces and reserves (%)			Public Use (%)		Residential/Mixed-Use (%)		lse (%)	Transport (%)	



Map 4: Tree Canopy Cover in Hampton East

Council-managed Tree Population

Useful Life expectancy (ULE)

Estimating the useful life expectancy of the council-managed tree population is regularly undertaken and can inform the future management options for trees that have limited useful life left. The assessment of a tree's useful life expectancy provides an indication of health and tree appropriateness and involves an estimate of how long a tree is likely to remain in the landscape based on species, stage of life (cycle), health, amenity, environmental services contribution, conflicts with adjacent infrastructure and risk to the community.² It is not a measure of the biological life of the tree within the natural range of the species, but more a measure of the health status and the tree's positive contribution to the urban landscape.²

The locations where there is a high concentration of trees which may require replacement within the next 10 years include Basterfield Park, Parkview Crescent and King Street. Replacement planting will be based on the existing surrounding vegetation, landscape character and ability to enhance habitat. Succession planting will be undertaken where large scale planting is required.

In Hampton East, approximately 5.7% of council-managed trees are anticipated to reach the end of their useful life expectancy over the next 10 years. Map 5 shows the location of trees with low ULE and the locations where the concentration of these trees is high.

Where it has been found that trees reaching the end of their useful life still provide benefit and habitat, it should be retained as habitat tree as per the Tree Risk Assessment Tool (TRAQ).



Graph 3. Useful life expectancy of council-owned trees in Hampton East

² Department of Health and Human Services, 'Arboricultural Assessment Holland Court, Flemington– 3.7 Useful Life Expectancy(ULE)', 2017, Available at https://www.planning.vic.gov.au/_data/assets/pdf_file/0011/105500/SHRP-SH1-15.a.-Tree-Logic-Rpt_Holland-Court,-Flemington.pdf



Map 5: Location of trees with low ULE in Hampton East

Tree health and age

Approximately 90.6% of council-managed street and park trees in Hampton East were classified as being in good health, while 0.2% were classified as excellent. Trees that are classified as poor, dangerous or dead make up for 0.7% of street and park trees.

There is a reasonable level of diversity in the age of trees within the suburb. As seen in Graph 5, the highest proportions are new and semi-mature, making up 38.2% and 24.9% respectively.

Map 6 provides the location of those trees that are in poor health or dead. where tree health is poor, dangerous, and dead. There is a low number of trees in poor health or dead, most of which are located within Basterfield Park and others sporadically upon residential streets and South Road. Street trees that are dead should be removed but dead trees in parks can provide habitat for fauna. Through the continued use of the Tree Risk Assessment Tool, Council will retain those trees and vegetation that provide a service to the ecosystem.

In 2022, 90.6% of the council-owned street and park trees in Hampton East, were classified as being in good health. Trees that are classified as poor, dangerous or dead make up for 0.7%.

Through the continued use of the Tree Risk Assessment Tool, Council will retain the trees and vegetation that provide a service to the ecosystem.







45%

Graph 5. Tree age in Hampton East

Map 6: Tree Health in Hampton East



Species diversity

A resilient urban forest has a diverse range of species from different families. As seen in graphs 6 and 7 below, Council managed street and park trees are predominantly within the *Myrtaceae* family, making up to 73.1% of all street trees and 57.8% of all park trees. This is then followed by the *Fagacaea* family (making up 12.6% of all park trees), and the *Aceraceae* family (5.3% of all street trees). Other families make up about 21.6% of street trees and 29.6% of park trees.



Graph 6. Diversity of street tree species in Hampton East



The reliance of a small number of species, and a lack of spatial diversity in species distribution leaves the urban forest vulnerable to threats from pests and disease. Diversification of the family composition of the urban forest is a key challenge that was identified in the Bayside *Street and Park Tree Guide* and reiterated within the Bayside *Urban Forest Strategy*.

The following families currently form part of the overall tree population in Hampton East's (including Pennydale) streets and parks at a significantly lower percentage than the *Myrtaceae* family. The inclusion and increase of these families should be targeted through the actions and implementation of this Precinct Plan, ensuring that different types of trees align with the neighbourhood character of the surrounding locality:

- Fagaceae
- Proteaceae
- Oleaceae
- Malvaceae
- Mimosaceae
- Salicaceae
- Pinaceae
- Ulmaceae
- Rosaceae
- Aceraceae
- Sapindaceae
- Platanaceae
- Meliaceae
- Lythraceae
- Bignoniaceae

Through the Park Improvement and Habitat Linkage Plan, Council will undertake tree and vegetation planting to support specific habitat locations, encourage the rebuilding of ecological foundations and improve species diversity in Bayside.

Currently, the Hampton East street and park tree population is largely dominated by the *Myrtaceae* family (*eucalyptus* etc.), making up 57.8% of park trees and 73.1% of all street trees.

Understorey planting in Hampton East

This section investigates the potential habitat and biodiversity corridors in Hampton East across public and private land to understand where further opportunities are to increase habitat connectivity and improve biodiversity.

Understorey vegetation includes small trees, shrubs, herbs, grasses, mosses and lichens that occupy the vegetation layers below the canopy of taller trees.³ Bayside's *Urban Forest Strategy* has three major goals to ensure the increase and improvement of the urban forest and the functions it serves. Two of these goals recognise the importance of understorey plantings. In addition, one of the strategic objectives of the Bayside *Urban Forest Strategy* is to support and enhance our local biodiversity and protect locally endangered and native species. This will be achieved by improving habitat connectivity and the protection and planting of Ecological Vegetation Classes (EVCs) through the implementation of the *Park Improvement and Habitat Linkage Plan* 2022 which involves identifying the suitable locations to prioritise understorey planting.

There is currently 16.97% of understorey vegetation coverage in Hampton East, with a majority of this being located within residential / mixed uses areas of within the suburb (70.1%), and this is likely due to this land use being the main component of the suburb. Opportunity exists to increase understorey vegetation within streets (16.1%) and open spaces and reserves (12.6%) as depicted in graph 8 & 8 and Map 7.

Council's priority will be to increase understorey planting in a range of places, particularly within streets with less than 20% tree canopy cover, roundabouts without current vegetation (Carrington Street - Warland Road and Wickham Road - Spring Road), core habitat patches/priority habitat improvement areas/priority linkage improvement areas (identified in Maps 10-11) and in gaps around sporting ovals (Wishart Reserve, Moorabbin Baseball and Cricket Club, Curly Rourke Reserve, Basterfield Park and Spring Road Playground). Council will also encourage residents to have biodiverse gardens that reflect the species targets as shown in Appendix 3. Streets that have very low percentage of understorey planting (0-10%) have been identified in Map 7 and include sections of Nepean Highway, South Road, Widdop Crescent, Dane Road and Wickham Road.









³ Land for Wildlife Queensland, 'The Value of Understorey Vegetation' Note V6, available at: <u>https://www.lfwseg.org.au/wp-content/uploads/2016/11/The-Value-of-Understorey-Vegetation.pdf</u>



Map 7: Understorey Planting in Hampton East

Urban Heat Island

Urban heat Island effect in Hampton East

Urban heat island effect is the phenomenon of dense urban areas having significantly warmer air and land surface temperatures than surrounding areas.⁴ It is primarily a result of impervious hard surfaces which generate heat combined with low vegetation cover that fails to provide adequate shade and natural cooling.

Urban heat data was captured in 2018 and is provided in Map 8 below. It is evident from this map that there are various areas of Hampton East, particularly in the north, east and centre of the suburb, that are undergoing increased temperatures and are subject to urban heat island effects.

Increased greening and enhancement of the urban forest has been identified as one of the most costeffective means of mitigating the potential impacts of climate change and urban heat island effects. The Urban heat map referred to (Map 8) illustrates that the vast majority of Hampton East will be impacted by increased temperatures, albeit not within the highest bracket of impacts (8.5 and above).

Council will prioritise planting on council land in the vast majority of Hampton East through the Annual Tree Planting Program to help combat urban heat island effects. In conjunction, innovative techniques such as green roofs and walls as part of more intensive residential developments within the activity centre should be explored and encouraged to increase vegetation.

Due to larger areas that have impervious hard surfaces, that generate heat, and low percentage of understorey planting, the vast majority of Hampton East will be impacted by increased temperatures, albeit not within the highest bracket of impacts (8.5 and above).

⁴ Resilient Melbourne and The Nature Conservancy, 'Living Melbourne – Our metropolitan Urban Forest',2019, Available at <u>https://livingmelbourne.org.au/wp-content/uploads/2022/10/Strategy_online.pdf</u>



Map 8 - Urban Heat – Increased temperatures in Hampton East

Biodiversity Assessment

To help inform the Bayside *Urban Forest Strategy*, Council undertook a desktop biodiversity assessment across the entire municipality. The purpose of the desktop biodiversity assessment was to assess and identify the existing ecological values present within the municipality and identify key areas where biodiversity could be improved. This section of the Precinct Plan will focus on the findings of this assessment within the suburb of Hampton East.

Strategic Biodiversity Value Score

The Strategic Biodiversity Value (SBV) is a ranking system developed by the Department of Transport & Planning (DTP) that ranks the biodiversity contribution that a location has to Victoria's overall biodiversity. The SBV is presented as a score ranging between 0 - 1 and is mapped across all areas of Victoria.⁵

56 areas with SBV scores were identified within Bayside, all of which exist on public land and are identified in Map 9. Hampton East did not have any areas with an SBV score.

Ecological Vegetation Classes (EVCs)

As a part of this study a review of Ecological Vegetation Classes (EVCs) model was undertaken. A total of 8 EVCs were modelled within the Bayside area. The modelled distribution of the 2005 DELWP mapping extent, highlights that most of the study area has been cleared. This is largely due to the extensive residential development that has occurred, and the associated road, rail and commercial development.

Of the 8 EVCs modelled within Bayside, two were present within Hampton East, within Basterfield Park. The EVC is a very small section of Grassy Woodland / Damp Sands Herb-rich Woodland and the Sedgy Swamp Woodland. These identified EVCs have informed the species palette in Appendix 3 to this Precinct Plan. The species palette provides guidance on species of trees and vegetation that should be planted in order to enhance the character and enhance the ecological values of the urban forest.

⁵ Desktop Biodiversity Assessment for the Urban Forest Strategy, Bayside City Council (2022)


Map 9 - Biodiversity Value Score – identified outside of Hampton East





Park Improvement and Habitat Linkage Plan 2022

The *Park Improvement and Habitat Linkage Plan* 2022 was undertaken by Council to assist with improving species diversity within Bayside and to understand which species (trees and vegetation) would best support specific locations in Bayside and encourage the rebuilding of ecological foundations. The objective of the plan is to assist in increasing the diversity of indigenous and native plantings in council-owned open spaces outside the conservation reserve system and to strengthen the connections between natural areas.

Two major actions identified in the *Park Improvement and Habitat Linkage Plan* that correspond to the Hampton East Precinct Plan are:

- <u>Streetscapes</u> Wherever possible, increase the extent of indigenous understorey vegetation in verges, nature strips, roundabouts, traffic islands and edges of carparks or other less frequented or unused areas.
- <u>Parklands</u> Expand on areas of existing native vegetation (both patches and individual trees) with dense understorey plantings, or identify locations for additional native plantings, to create structurally diverse 'habitat planting zones'.

Conservation reserves in Hampton East

Hampton East does not contain any conservation reserves.

Core Habitat Patches

As per Map 11, three core habitat patches have been identified within Hampton East as areas where planting should occur to implement new or improve existing links to areas of open space and provide habitat corridors:

- 1. Wishart Reserve
- 2. Moorabbin West Reserve/A W Oliver Reserve
- 3. Basterfield Park.





Priority Habitat Improvement Areas

Priority habitat locations are primarily associated with parks or reserves that support high-quality habitat values (such as bushland or foreshore reserves) or have the potential to provide core habitat with further investment through on-ground plantings and complimentary habitat structures.⁶

As portrayed on Map 12, Priority Habitat Improvement Areas identified in Hampton East are:

- Wishart Reserve
- Moorabbin West Reserve/A W Oliver Reserve
- Basterfield Park

Priority Linkage Improvement Areas

Linkage Improvement Areas are primarily associated with public road reserves with the objective being to increase the functional diversity of vegetation within these areas to improve connectivity for a broader range of species.⁶ Locations of priority linkages identified across the municipality have been restricted to public land, except for limited instances within privately owned golf courses.

- Wishart Reserve to Moorabbin West Reserve via Wishart Street, Short Street, Lonsdale Avenue, Apex Avenue
- A W Oliver Reserve to Hampton via Summit Avenue
- Basterfield Park to Highett via Dane Road, Widdop Crescent, O'Connor Crescent, Bluff Road, Wickham Road and June Street.

⁶ Park Improvement and Habitat Linkage Plan, Bayside City Council (2022)



Map 12 – Habitat Linkages and Improvements

Trees on Private Land

While we encourage and support the increase of tree canopy cover on private land, it is recognised that the uptake of tree planting on private land can only be enforced through better planning mechanisms, education, advocacy and commitment from the community.

The objectives of the Bayside *Urban Forest Strategy* is to prioritise and strengthen the support for retaining existing trees on public and private land and to strengthen Council's ability to retain and monitor trees on both public and private land.

Regulations involving trees on private land

Under the *Neighbourhood Amenity Local Law 2021*, a permit is required for the removal of a tree that is on the Significant Tree Register or a canopy tree that has a single or combined trunk greater than 155 centimetres measured at 1 metre above ground level.

There are several mechanisms currently in place within the Bayside Planning Scheme that require a planning permit to be granted for tree removal. These mechanisms include but are not limited to the Vegetation Protection Overlay (VPO), Significant Landscape Overlay (SLO) and the Heritage Overlay (HO). The HO is however the only overlay that applies to selective private properties in Hampton East.

It is difficult to approximate the number of trees removed from private land each year under a planning permit as this is not separately recorded (and one application can be for multiple tree removals), let alone the extent of tree removal that is legal or illegal.

As indicated in Graph 10, while private land contributed to 70.6% of tree canopy gains in Hampton East, it also contributed to 73.1% of tree canopy losses. Conversely, Council-owned land contributed 27.4% to tree canopy gain versus 24.1% of tree canopy loss. Losses and gains were calculated by comparing 2015 and 2019 canopy cover data.

Tree loss and gain in Hampton East on private land

Map 13 shows tree canopy lost and gained in Hampton East from 2015 to 2019. The source aerial photography datasets were obtained from the State Government's Coordinated Imagery Program (CIP). The datasets from 2015 and 2019 were further compared by council's GIS team to identify changed areas of vegetation.



Graph 10: Tree Canopy across various land ownerships

Encouragement of trees on private land

As mentioned in the *Urban Forest Strategy*, community engagement will be essential in growing the urban forest on private land and Council will continue to be proactive in communicating the benefits of trees and vegetation on private land.

Council will also investigate opportunities to provide free tree and vegetation giveaways to residents. This will provide Council with a pathway to influence the tree and vegetation cover that exists on private land and help residents maintain the health of their trees and gardens. Bayside already has a strong network of 'Friends of' groups and community volunteers who carry out tree and vegetation plantings and would be great allies in this work.

Council will encourage landowner participation in greening, particularly for areas identified as having less canopy cover. This is being undertaken through communications and engagement actions that has a focus on education, awareness on the benefits of vegetation, and participation in increased tree planting through various education programs.

There has been strong interest from the younger population of Bayside to participate in increasing vegetation cover. Council will continue to run educational programs within schools and work alongside the community to reach the *Urban Forest Strategy* target of 30% canopy cover across Bayside by 2040.

As part of the Bayside *Urban Forest Strategy* Implementation Plan, Council is exploring opportunities to include further policies and planning mechanisms within the Bayside Planning Scheme with an aim to maintain and increase tree canopy and vegetation on private land.



Map 13 - Vegetation loss and gain on private land

Hampton East in images

The following images show examples of low, medium, and high tree canopy coverage in Hampton East.



Image 5. Henrietta Street, an example of a road with low tree canopy coverage



Image 6. Leith Crescent, an example of a road with medium tree canopy coverage



Image 7. Kelsall Court, an example of a road with high tree canopy coverage

Key Constraints – Infrastructure

Finding locations for street and park tree planting can be challenging as it is important to ensure trees do not compromise the existing above and below infrastructure, as well as the existing uses and accessibility of the space.





Small tree under powerlines

Tree trimmed under powerlines

Certain pieces of infrastructure introduce constraints that impact the ability to plant trees. Street and park tree selection for trees growing under powerlines needs to consider a particular species' tolerance for pruning. For example, a tree that has a natural branching habit and a good wound response to mechanical damage would be considered an appropriate tree species for growing under powerlines.

In streets that have small or narrow nature strips, a smaller tree species will be considered for the powerline side of the street. In those circumstances, the trees on both sides of the street should have similar foliage and form to provide a consistent vegetation character for the street.

As a phase 1 action of this plan, Council will facilitate the negotiations between the residents and relevant authorities to support the undergrounding of powerlines (and other services) if there is sufficient interest in a street. Council will also advocate to VicRoads and other authorities for undergrounding the powerlines and plant vegetation on the Principal Transport Network. Map 14 identifies infrastructure that must be considered when undertaking tree and vegetation planting including:

- Footpaths
- Kerb and channel
- Roadways
- Playgrounds
- Pathways
- Private infrastructure
- Public infrastructure.

When selecting tree species for planting, Council officers consider which species will be the least destructive to underground infrastructure. Council will work with utility providers where required to ensure that infrastructure can be successfully maintained. This will ensure that Council can increase vegetation cover whilst protecting existing infrastructure and reducing demand for maintenance.

It is also important to note that infrastructure can also be constrained due to weather events. The *Climate Emergency Action Plan* 2020 requires that new infrastructure be designed to higher environmental standards and be located with consideration to future flood and storm surge risk. Existing infrastructure should be retrofitted to reduce environmental impact and to improve resilience. It is critical to consider how each piece of new infrastructure can contribute to a more resilient built environment. Adapting to climate change requires taking actions to lessen its adverse consequences and increase capacity to withstand the stresses and shocks associated with natural hazards and extreme weather events. Investing in climate change adaption helps to embed economic, social, and environmental resilience to protect the most vulnerable to the consequences of climate change.



Map 14 – Infrastructure servicing in Hampton East

Key Opportunities

Greening Hampton East

Increasing tree canopy cover to reach 30% and vegetation cover to reach 30% across Hampton East by 2040.

Biodiverse suburb

Create a diverse and healthy urban forest that reinforces greater outcomes for biodiversity.

Improve monitoring and maintenance

Improve the ability to monitor and track along with maintaining our existing canopy cover and avoid further decline.

Encourage residents and private owners

Learn together, educate each other, encourage and celebrate greater care and protection.

Nature strips

In terms of tree planting, the Street and Park Tree Management Policy states that:

'Council aims to have 100% of suitable sites within Bayside planted with a tree to contribute to the municipality's leafy character. Most property frontages in Bayside can accommodate at least one tree within the nature strip.'

Council-owned open spaces

Hampton East has approximately 11.4 hectares of open space that includes parks and reserves.

An opportunity exists to increase the number of canopy trees and vegetation planted in council-owned open spaces. Open spaces within Hampton East include Basterfield Park, Wishart Reserve, A W Oliver Reserve and Moorabbin West Reserve.

Council-owned projects <

There is a significant opportunity to increase vegetation cover in Hampton East through council-owned projects like the renewal or development of community buildings and sporting club facilities. Each Council project has site-specific issues and opportunities that need to be considered as a part of the project scope. Examples of this include having a buffer around Council buildings and sporting ovals to ensure new plantings do not hinder future projects e.g. expansion of a community building. When planting near sporting ovals maintenance of future trees must be considered to ensure sporting events can still run.



Educational land

Roundabouts

Roundabouts provide opportunities to plant canopy trees and understorey planting where appropriate. New plantings must not affect sight lines, safety or accessibility for larger vehicles. To ensure future planting is appropriate, a Road Safety Audit will be completed before and after installation.

Commercial areas

When planting trees in commercial areas conflicting priorities such as the demand for car parking, footpath activation, shop awnings, street lighting and road signage must be considered. Innovative techniques such as green roofs and walls and replacing trees in poor health should be explored and encouraged to increase vegetation.

Habitat Linkages connectivity at:

Continue to run student and community educational programs to increase awareness around vegetation planting and protection. There is one school within Hampton East, Berendale School.

Across Hampton East there are two areas that are zoned for commercial use. These include:

 The commercial centre of Hampton East Activity Centre (Major Activity Centre)

 Keith Street and Widdop Crescent (Small Neighbourhood Activity Centre)

The character of these commercial centres can be improved by increasing the amount of vegetation. This will create more appealing centres that will attract a greater number of visitors and therefore increase business for local traders.

Increase canopy cover and understorey cover and improve habitat

 Wishart Reserve to Moorabbin West Reserve via Wishart Street, Short Street, Lonsdale Avenue, Apex Avenue

A W Oliver Reserve to Hampton via Summit Avenue

Basterfield Park to Highett via Dane Road, Widdop Crescent, O'Connor Crescent, Bluff Road, Wickham Road and June Street.

Prioritising Trees and Vegetation

Planting will commence by focussing on habitat linkages and core habitat patches identified in the Park Improvement and Habitat Linkage plan (Action 1 of the Implementation Plan). Focus will also be given to streets that have low canopy cover.

Encouraging planting on private property will prove to be more challenging. The species palette listed in this Precinct Plan is also provided within the revised Bayside Landscaping Guidelines and selection from this list will be encouraged as part of the Planning and Local Law tree removal application and approval process for Landscape Plans. Council will also work with private property owners to seek enhanced landscaping outcomes on nature strips.

As a response to the Bayside *Urban Forest Strategy*, Council is committed to increasing tree planting every year. Maps 17 to 20 identify priority locations to be targeted in Council's Annual Tree Planting Program.

The Annual Tree Planting Program provides a great opportunity to increase species diversity, habitat and local character. A general rule of thumb that should be applied is the 10:20:30 rule, where the urban tree population includes no more than 10% of any one species, 20% of any one genus, or 30% of any family.



Map 16 – Location of Tree Replacements required in next 10 years in Hampton East



Map 17 – Streets with less than 20% Tree Canopy Cover in Hampton East



Map 18 – Streets with High Urban Heat Island Effect in Hampton East

Implementation Plan The following set of actions specifically identifies outcomes for trees and vegetation planting. They provide the framework for change within Hampton East with outcomes informed by all of the other factors outlined in previous sections of this Precinct Plan.

Phase	Objective	Action	Responsibility	Timeframe	Resources required	Measure
Create a	diverse and hea	Ithy urban forest that reinford	ces greater ou	tcomes for	biodiversity.	
Action 1 Phase 1	Prioritise and increase planting on identified habitat and biodiversity corridors across public land to enhance habitat linkages.	Investigate opportunities to provide increased understorey planting in areas identified as part of Council's <i>Park Improvement</i> <i>and Habitat Linkage Plan</i> (Map 10 - 11), including: Priority Habitat Improvement Areas: • Wishart Reserve • Moorabbin West Reserve/A W Oliver Reserve • Basterfield Park Priority Linkage Improvement Areas: • Wishart Reserve to Moorabbin West Reserve via Wishart Street, Short Street, Lonsdale Avenue, Apex Avenue • A W Oliver Reserve to Hampton via Summit Avenue • Basterfield Park to Highett via Dane Road, Widdop Crescent, O'Connor Crescent, Bluff Road, Wickham Road and June Street. Core habitat patches: • Wishart Reserve • Moorabbin West Reserve/A W Oliver Reserve • Moorabbin West Reserve/A W Oliver Reserve • Basterfield Park	Open Space	Year 1 to 2	Budget allocated for 2022/23 and 2023/24 financial years.	Park Improvement Habitat Linkage Plan and the Urban Forest Strategy Annual Reporting Program.
Action 2 Phase 1	Enhance biodiversity outcomes on private land.	Encourage private landowners to plant vegetation on private property and nature strips within their street and provide support and tools to assist. To ensure new plants enhance habitat and biodiversity, Council officers should recommend appropriate plants listed in Appendix 3 Species Palette of this document	Open Space, Urban Strategy, Communicatio n and Engagement	Ongoing	Budget will be required.	Utilise engagement evaluation matrix to measure success. Number of community members involved in activities. Demand from residents for vegetation outside their house.
Action 3 Phase 1 & 2	Create new open space, pocket parks, micro- forests in the suburb seeking new biodiversity or habitat corridors.	Investigate opportunities to create new public open space, pocket parks, microforests, and habitat corridors, ensuring that the design of these spaces are contributing to Bayside's urban forest outcomes and the existing Ecological Vegetation Community.	Open Space,	Ongoing	This can be considered as part of the Open Space Strategy review and can be considered with the resourcing of that project.	Council to prepare list of potential open space sites as part of the adoption of the Open Space Strategy review.
Action 4 Phase 1	Ensure humans and wildlife can simultaneously and safely access densely vegetated areas, streets and reserves	Support the undergrounding of powerlines where it is at the request of the community and at their full cost. Facilitate the negotiations between the residents and relevant authorities to support the undergrounding of powerlines (and other services) if there is sufficient interest in a street.	Asset Protection	Ongoing	No budget required	Number of streets where undergrounding of powerlines has been implemented.
Action 5 Phase 1	Ensure open space opportunities along the Frankston trainline are considered.	Council will advocate and explore opportunities for increased open space connectivity along the Frankston rail corridor.	Open Space, Climate, Sustainability, Waste and Transport	Ongoing	No budget required.	Confirmation that planting along the Frankston line will commence.

Phase	Objective	Action	Responsibility	Timeframe	Resources required	Measure
Enhance greatest	landscape outco	mes and increase tree and veg	getation cover	to reach 30°	% across Hampton Eas	st by prioritising areas in
Action 6 Phase 1	Increase tree and understorey cover at areas with greatest need to enhance landscape outcomes, provide for heating and cooling benefits and combat climate change.	Investigate opportunities to increase canopy tree and understorey planting at the following streets which have bene identifies as having low canopy cover (less than 20%): • Wickham Road • Worthington Road In addition, investigate opportunities to increase tree and understorey cover at the streets which may be subject to potential impacts from Urban Heat Island effect. Further investigation will be required to determine where would be of priority and where planting can occur with consideration of above and below ground infrastructure.	Open Space	Year 1 to 5	Budget and resources will be required to increase the number of trees and understorey plants to be planted.	In line with the review of the Precinct Plans, a comparison should be undertaken for all roundabouts that currently do not have vegetation.
Action 7 Phase 1	Planting canopy trees and/or understorey vegetation on roundabouts that currently do not have vegetation to enhance landscape outcomes.	 Investigate opportunities for trees and/or understorey planting at the following roundabouts (as per Map 16): Carrington Street / Warland Road; and Wickham Road / Spring Road. Heath and Londsdale Avenue New plantings must not affect sight lines, safety or accessibility for larger vehicles. 	Open Space, Urban Strategy, Integrated Transport Team. Integrated transport team to guide and undertake road safety assessment before and after planting.	Year 1 to 5	Budget and resources will be required to increase the number of trees and understorey plants to be planted.	Number of plants planted. In line with the review of the Precinct Plans, a comparison should be undertaken for all roundabouts that currently do not have vegetation.
Action 8 Phase 2	Increase utilisation of green walls and green roofs in Activity Centre area.	Investigate opportunities to introduce mechanisms to increase green roofs and walls within Activity Centres	Development Services, Strategic Planning	Year 5 to 10	Initiate a Planning Scheme Amendment.	Number of green walls implemented. Urban Forest Strategy Annual Reporting Program.
Action 9 Phase 1 and 2	Reframe Council's approach to major council-owned projects, capital infrastructure renewal projects as opportunity to increase urban forestry outcomes.	Explore opportunities within road reconstruction projects to provide new tree plots as boulevard planting or in between car parking bays to enhance tree and vegetation cover upon local streets.	Project Services, City Assets	Ongoing	Budget will be considered as part of the project scope.	Number of plants planted. Urban Forest Strategy Annual Reporting Program.
Action 10 Phase 1	Increase tree canopy cover by prioritising plantation in vacant tree sites.	As part of the Annual Tree Planting Program, prioritise planting at vacant sites.	Open Space, Urban Strategy	Ongoing	Budget and resources will be required to increase the number of trees and understorey plants to be planted.	Number of trees planted. Urban Forest Strategy Annual Reporting Program.
Action 11 Phase 1	Ensure our urban forest is healthy and resilient.	As part of the Annual Tree Planting Program, Council should continue to choose species that are resilient and adaptive to the effects of climate change and increasing urban development. Property owners are also encouraged to select species that are resilient and adaptive through the planning and local law application processes.	Open Space, Development Services and Urban Strategy	Ongoing	Budget allocation as part of the Annual Tree Planting Program Budget allocation required to continue programs such as the Gardens for Wildlife Program to encourage planting on private property.	Species planted. Urban Forest Strategy Annual Reporting Program.
Learn to	gether, educate ea	acn other, encourage and cele	brate greater o	are and pro	tection of the Bayside	Urban Forest
Action 12 Phase 1	Increase planting on State owned roads that have less than 20% of tree canopy cover.	Advocate to VicRoads and other authorities for increased planting on Nepean Highway, Bluff Road and South Road.	Open Space, Urban Strategy, Integrated Transport	Ongoing	Budget will be required for any additional planting or maintenance should Council take on those functions for land in State ownership	A commitment made to plant trees on the streets maintained by VicRoads.
Action 13 Phase 1	Increase awareness amongst the community around the importance of vegetation through	Continue to run student and community educational programs to increase awareness around vegetation planting and protection.	Urban Strategy, Communicatio n & Engagement	Ongoing	Budget may be required to create and implement educational programs.	Number of educational programs undertaken every year.

Phase	Objective	Action	Responsibility	Timeframe	Resources required	Measure
	various programs and communication material.					
Action 14 Phase 1 and 2	Ensure humans and wildlife can simultaneously and safely access densely vegetated areas, streets and reserves.	Advocate to VicRoads and other authorities for the undergrounding of powerlines.	Urban Strategy	Ongoing	No budget required.	Funding received and/or partnerships created.
Maintain	our existing can	opy cover and avoid any fur	ther decline w	here possib	ble	
Action 16 Phase 2	Ensure our urban forest is healthy and resilient.	Continue to assess trees that have limited useful life expectancy or are dead for potential retention as habitat trees using TRAQ (Tree Risk Assessment tool).	Open Space	Year 5 to 10	Budget and resources will be required to assess trees for habitat and to plant understorey to support habitat trees.	Number of replacement plants planted, and number of trees retained for habitat. Urban Forest Strategy Annual Reporting Program.
Action 17 Phase 1 and 2	Increase Council's ability to protect trees from vandalism.	Explore additional opportunities to minimise vandalism, particularly along the foreshore. Consider the preparation of a communications and engagement strategy targeted to private property owners and the wider community.	Local Laws, Open Space, Communicatio n and Engagement	Year 1 to 5	Budget and resources will be required to explore opportunities.	Utilise engagement evaluation matrix to measure success.
Action 18 Phase 2	Provide safer and cleaner streets for our residents and visitors.	As vegetation cover increases with time, ensure future maintenance contracts appropriately fund the clean-up of tree leaves and debris on roads, public land and in activity centres.	City Assets, Open Space	Ongoing	Additional budget will be required to alter maintenance contract.	The number of requests for additional service.
Action 19 Phase 1	Strengthen requirements and advocacy to maintain and increase vegetation on private land.	Prepare Planning Scheme Amendments to strengthen the protection of vegetation on private land.	Development Services Urban Strategy	Year 1 to 5	Planning Scheme Amendment process to be funded via operation budget. Budget may be required to prepare detailed background information.	Adoption of Planning Scheme Amendments.

Appendix 1: Guiding Principles and Considerations

Council is responsible for the management of road reserves, parks, public spaces, and foreshore reserves and has an active tree planting and maintenance program, which is guided by the *Park and Street Tree Management Policy*. As such, Council has a greater degree of control and influence over the tree population on council-owned and managed land.

Planting in streets and parks presents a variety of challenges, and there are important principles to be utilised to overcome these challenges and increase and enhance Bayside's tree and vegetation cover. A complete and expanded set of these principles is included in the *Street and Park Tree Selection Guide* 2016 and should be referred to when designing or planting any streetscape. Examples of the below principles being utilised in street and neighbourhood settings are also provided within this Section of the Precinct Plans.

Planting types and locations in streets

1. Large canopy trees

A single large canopy tree provides greater benefits in terms of cooling, rainwater interception and other ecosystem services than multiple small trees totalling the same canopy extent.. It is recognised that there are restrictions where medium size trees would be more appropriate due to competing infrastructure. Council will prioritise the use of large canopy trees in wider nature strips or tree islands, where there will be low impact to adjacent infrastructure.

2. Constrained planting spaces

- a.) Cut-outs. Planting in cut-outs in the road or footpaths provides a useful alternative where there may be insufficient space on the nature strip. Suitability for planting in the road or footpath will depend on road or footpath width and other factors such as traffic volume and impact to on-street parking.
- *b.) Planting in Road Reserve.* Designing in-road tree pits where there is opportunity to plant trees in between on-street parking spaces, traffic islands and buffer areas like street corners.
- *c.)* Narrow Streets. Narrow streets, including narrow footpaths and no nature strips, are best landscaped via tree planting within the parking lanes to either side, although this is partly limited by the need to maintain car parking spaces.

3. Roundabouts

Roundabouts will be considered as opportunities to plant canopy trees and understorey planting where appropriate. New plantings must not affect sight lines, safety or accessibility for larger vehicles. To ensure future planting is appropriate a Road Safety Audit will be completed before and after installation.

4. Boulevards

For boulevards, consider inter-planting with large canopy trees and shrubs to enhance the existing canopy cover.

5. Streets and powerlines

a.) Residential streets. Low voltage overhead wires are present on one side of most residential streets. Where medians exist for large canopy tree planting, medium trees on the side with overhead constraints should be selected, always prioritising understorey planting. Council will continue to investigate engineering and horticultural solutions to manage larger trees under powerlines

- *b.)* Streets with small nature strip and powerlines: In streets that have small or very small nature strips, a smaller growing tree will be considered for the powerline side of the street. In those circumstances, the trees on both sides of the street should have similar foliage and form to provide a consistent theme for the street.
- *c.) Tree pruning:* In streets where footpath trees provide the only canopy, medium to large trees that can be effectively pruned around powerlines should be selected.

Street and park tree selection for trees growing under powerlines will consider the species' tolerance for pruning. For example, a tree that has a natural branching habit and a good wound response to mechanical damage would be considered an appropriate tree for growing under powerlines.

d.) Underground powerlines: Although overhead powerlines are typically more economical, they are susceptible to damage from windborne tree branches, debris, and high wind conditions from extreme weather.

Council will facilitate the negotiations between the residents and relevant authorities to support the undergrounding of powerlines (and other services) if there is sufficient interest in a street.

6. Planting patterns and species choice

Hampton East's urban forest character is strongly connected to gum trees, and there will continue to be a higher population of gum trees in Hampton East. In terms of opportunities to increase diversity in streets, kerb out stands, roundabouts and road ends should be considered as opportunities to plant species drawn from a wider palette that are unique to the location or intersection and provide visual interest. These areas should also be considered as opportunities to create landmark feature landscapes and to support understorey planting.

7. Important Facades

In streets with important public buildings or building that have heritage importance, deciduous trees should be given preference so that building façades are exposed over winter.

The convention of planting avenues, or consistent lines of a single species, can limit species diversity. However, avenue plantings are important to local character in many streets and open spaces. To balance these two conflicting pressures, it is important to identify ways to minimise the extent of homogeneous avenue planting while maintaining a strong design outcome.

8. Selection criteria for street trees:

The following factors can be considered for selection of suitable street tree species:

- Relationship with local landscape character
 - garden character, surrounding streetscape
 - vegetation protection overlays, heritage values
 - maintain existing landscape character by selection of low fruiting cultivators where possible
 - Replacing difficult to replace existing species with species demonstrating similar characteristics, e.g. growth habit, foliage colour and size.
- Ability to tolerate and thrive in a site's environmental conditions. Species that have or can adapt to local conditions like climate, soil, coastal and salt tolerances, pests and diseases.
- Possible future damage to infrastructure as assessed against identified current issues with footpaths, kerb and channel, roadways, private infrastructure and powerlines.

9. Permeable surfaces

Impermeable surfaces such as pavements, roofing and building coverage increase the risk of flooding in urban areas. Comparatively, permeable surfaces are made of porous materials that allow stormwater to flow though, which reduces the volume of stormwater runoff that enters the drainage

system. This helps improve water quality as it reduces the number of pollutants that enter waterways and habitats.

For new private residential development, at least 20% of the site should have surfaces that can absorb water such as lawns, garden beds or permeable paving. Council has developed the Integrated Water Management Plan 2019 – 2039, called 'Water for Bayside', to provide clear direction to deliver high priority integrated water management and water sensitive urban design (WSUD) activities. A key technique to improve water management is to increase permeability and incorporate WSUD into new developments and council projects.























Appendix 2: Case Studies

The following case studies showcase high-quality landscaping that combines the use of indigenous and native vegetation and high-quality design. A precinct's landscape helps define its character in much the same way as architecture or urban design because trees and other vegetation physically define a place. Landscapes are the setting for many everyday recreational and leisure activities and help forge a sense of connection to place.

1. Dane Road

Dane Road, which connects to Basterfield Park, has new understorey plantings. The plantings are positioned near a public sitting bench and onlooks to the Park. The plantings all exotic and could become more biodiverse with the inclusion of smaller Native and Indigenous shrubs for groundcover.



2. Apex Street

Apex Street has several examples of understorey planting. Here, there is a mix of exotic bushes, ferns and grasses. This case study could also be improved by incorporating Indigenous groundcover, such as *Lomandra spp.*, *Poa spp*. or native grass species.



Village Zero – Sandringham

'Village Zero' is a community-driven initiative with the goal of regenerating the Sandringham Village Major Activity Centre through sustainable solutions.

The action group has identified seven areas of focus, these are:

- 1. Renewable Energy
- 2. Waste
- 3. Green Spaces
- 4. Transport
- 5. Water
- 6. Art
- 7. Culture

The relevant action to the Precinct Plans is Green Spaces.

This focus area aims to:

• Connect green and open spaces to surrounding pollinator corridors, to promote biodiversity and support local ecosystems. This could include planting native flowers and shrubs, and creating habitats for bees, butterflies, and birds. This includes investigating the viability of

green infrastructure, such as creating green roofs, and vertical gardens for apartment buildings;

- Increase access to green and open spaces, maximising flexibility of spaces for multiple uses and users, in accordance with Bayside Council's "Open Spaces" policies. Prioritise accessibility for people living with disabilities, youth and the elderly in the design and development of green and open spaces. This could include incorporating features such as raised garden beds, wheelchair-accessible pathways, and age-appropriate playground equipment. Improved accessibility will interface with other infrastructure initiatives such as crossing improvements at Abbott Street, across Station Street, and Beach Road;
- Coordinate with the community to increase the uptake of Bayside Council's tree-planting commitment for nature strips;
- Increase community enjoyment of streets, open and green spaces through community building events and activities;
- Align with and enabling other partners in supporting and nurturing green spaces;
- Engage the community in the planning, design, and maintenance of green and open spaces. This could include activities such as community clean-ups, volunteer gardening days, and educational workshops;
- Create and connect community gardens and orchards, which allow for community members to grow their own produce and educate the community on sustainable food production and consumption.

Council will continue to assist the 'Village Zero' project and will support any future initiatives that focus on increasing vegetation cover in activity centres.

Appendix 3: Hampton East Species Palette

Species Palette

The following species provided are of guidance only.

Eucalyptus, Oak and other species are key genera across Hampton East, forming an important part of the character of the suburb's urban forest. Species from many other genera will also be planted to increase the diversity of tree species, with the aim to reduce the vulnerability of the Hampton East urban forest. A high diversity of plant species improves the chance of local ecosystems to survive destructive events or processes such as weed and pest animal invasion and climate change. Planting of specific species will depend on the geographic and environmental conditions, as well as the surrounding neighborhood character.

When selecting tree and vegetation species for planting on Council-managed streets, parks and reserves, Council will consider existing infrastructure to minimise potential impact. This will ensure that Council can increase vegetation cover whilst protecting existing infrastructure and reducing demand for maintenance.

Bayside City Council utilises the Street and Park Tree Management Policy and the Street and Park Tree Selection Guide when planting in streets, parks, and reserves or as part of capital infrastructure projects.

A high diversity of plant species improves the chance of local ecosystems to survive destructive events or processes such as weed and pest animal invasion and climate change. Planting of specific species will depend on the geographic and environmental conditions, as well as the surrounding neighborhood character.

The following list of Indigenous, native and exotic plants is provided as guidance only. The list is split into 8 categories:

- Large canopy trees
- Medium canopy trees
- Small canopy trees
- Medium to large shrubs
- Small shrubs
- Grasses & tussocks
- Groundcovers & wildflowers
- Climbers

Each list is accompanied by a key which categorises each plant based on its characteristics (Height and spread at maturity, Uses/traits, habitat, tolerances, sunlight, flowering period, flowering colours and EVC number if applicable).

Indigenous Plants

Council promotes the use of indigenous plants as they occur naturally within Bayside and have adapted to the conditions within the local environment (soil and climate) whilst also providing habitat and food for local birds, insects, and other native animals. There are a number of indigenous trees listed within the Street and Park Tree Selection Guide which are planted as part of Council's Annual Tree Planting Program.

Indigenous plants are the original flora, or plants that occur naturally, in a given location. Indigenous plants have adapted to the soils, topography and climate of the local area because they have evolved to the conditions within the local environment. Indigenous species also help to maintain the ecological balance of the local ecosystem, as plants and animals depend upon one another for their survival.

Native and Exotic Plants

Native species are plant species that did not historically originate within the bayside region but were extant in other regions within the Australian continent. Exotic species are those plants that have been introduced and are not native to Australia and therefore did not historically occur within Bayside.

Bayside's urban forest is a mix of native, indigenous, and exotic species. While priority is placed on increasing the use of indigenous species, the historic planting of exotic, native and indigenous species is a core element of the character in certain areas of Bayside.

The use of native and exotic plants in this list is encouraged in areas where it is considered to have a positive impact on the surrounding environment and neighbourhood. This is of relevance where the existing plant(s) enhances the neighbourhood character. In these areas replanting like for like is encouraged.

Council utilises exotic plant species as part of its Annual Tree planting program. To ensure long term resilience and increase survival rates, native and exotic species adapted to Bayside's future climate will be considered for planting. Council utilises the Street and Park Tree Selection Guide to inform the annual tree planting program.

Species Palette 1 – Large Trees

INDIGENOUS TO PROVIDENCE (Grown at nu	irsery/within Baysiae)		Uses/traits key			Habitat Key										
INDIGENOUS (Grown Outside Bayside)			R - Robust and	Hardy		H-Heath/W	/oodland							High = tolerates well	without damage.	
NATIVE TREES (From Australia)	Full Sup - FS		IM-Low Maint	tananca		M - Moiet/Cl	locad foract						complete range	Eair- can tolerate me	adium lavals	
	Part Charles DC		C. Charles	tenance			losed lorest						complete range	e ran= can colerate me	culum levels	te le ferre la cole
EXUTIC (From outside Australia)	Part Shade=PS		S - Shade			c – coast – d	iune scrub & i	woodland					acid to neutra	ii woderate = tolerates	s somewhat with some effect	ts in low levels
Additional Species	Shade = FSh		F - Feature			D – Preters d	dry, well drair	ned soils & to	olerates dryn	ness once est	tablished.		acio	d Low = suffers serious	s damage to death if exposed	
			Sh – Prefers or	tolerates full shade		W – Prefers o	or tolerates r	noist soils, w	etness, perio	odic inundat	tion		Alkaline to neutra	al l	E=Evegreen	Please contact your local nursery or a horticultural professional for further advice.
						A – Adaptabl	le, growing w	ell in most so	oil types						D=Decidious	All indigenous plants provide habitat & food for local birds, insects & animals.
Species canable of reaching 9m+ and canon	w spreads greater than 8m+			EVC= Ecologica	al Vegetation Cl	lass				Tolerar	nces					
	COMMON NAME	Mat UEICUT	Mat CANODY	Crowth Bata	EVC	Sunlight	Mind	Colimiter	Coo Carrow	Drought	Materlagging	Composition	DU	Elevening Months	Flower colours	F/D Mahikat Hass/Traits
BOTAINICAL INAIVIE		IVIAL HEIGHT	I IVIAL CANOPT	Giowunkate	EVC	Sumgin	wind	Samily	Sea Spray	Diougiit	wateriogging	Compaction	Pn	Flowering wontins	Flower colours	
Acacia melanoxylon	Blackwood	12	8	Moderate	/19, 3	55-F5	Fair	Moderate	Moderate	Fair	High	Moderate	Acid	Jul-Oct.	Pale yellow/White	E ADW LM, S, R, Bird attracting, Hedging, Screening, Toxic or allergenic
Eucalyptus camaldulensis	River Red Gum	20	15	Moderate	n/a	FS	High	High	Moderate	High	High	Fair	Complete Range	Dec.	White	E HA LM, S, Windbreak, Erosion control, Robust, Structural, Attractive Bark, Bird-attracting, Aromatic
Eucalyptus melliodora	Yellow Box	16	12	Moderate	n/a	FS	High	Moderate	Moderate	High	Low	Low	Complete Range	Mar/Sep-Dec.	White	E HA LM, S, R, Fragrant flowers, Aromatic leaves, Bird-attracting
Eucalvotus ovata	Swamp Gum	10	8	Moderate	707	FS	Moderate	Low	Moderate	Moderate	High	High	Acid	Mar-Jun.	White	E HW LM. S. R. Attractive bark. Bird attracting. Aromatic leaves
Eucaluntus radiata	Narrow-Jeaved Representint	15	10	Moderate	907	EC	Moderate	Low	Moderate	High	Moderate	Moderate	Complete Pange	lan/Oct-Dec	White	E UD IM S.P. Bird attracting Aromatic lawses
	Marrow-leaved reppermit	45	10	Noderate	032	15	Moderate	Low	Moderate	Madaata	Moderate	Inductate Cala	Comprete Nange	Jan/Occ-Dec	wince .	E HD EW, S, H, Dia attracting, Aronautcieves
Eucalyptus viminalis subsp.pryoriana	Manna Gum	15	12	Fast	919,719,892,3	FS	woderate	LOW	woderate	Moderate	woderate	Fair	Acid to Neutral	iviar-iviay	white	E HCD LW, S, K, Attractive bark, Bird attracting, Aromatic leaves
Eucalyptus cephalocarpa	Silver-leaved Stringybark	13	11	Moderate-slow	n/a	FS	Fair	Moderate	Moderate	High	Fair	Fair	Acid to Neutral	May-Jul.	Creamy-White/yellow	E MW R, LM, bird-attracting, aromatic leaves, shading, screeening, cut flower, bush garden
Eucalyptus leucoxylon subsp. Connata	Yellow Gum	12	10	Moderate-slow	n/a	FS	Moderate	Moderate	Moderate	High	Moderate	High	Complete range	May-Sep.	Creamy-White/yellow	E MW R, LM, attractive bark, bird attracting, aromatic leaves
Agonis flexuosa	Weeping Willow Myrtle	12	12	Moderate-slow	n/a	PS-FS	Moderate	Fair	Fair	High	Low	Low	Acid to Neutral	Sep-Dec.	White	E CA Aromatic leaves, folourful foliage, screening, shading, bush garden
Anaonhora costata	Smooth-barked Apple	15	12	Moderate	n/a	FS	Fair	Moderate	High	High	Low	Fair	Acid to Neutral	Dec	Bright Cream/White	E CHD LM S. B. Attractive Bark
Angonhorg floribunda	Rough Parked Apple	15	12	Moderate	n/a	ES	Eair	Moderate	Eair	Eair	Low	Moderate	Complete Pange	Sen-Dec	Bright Cream /White	
	Rough barked Apple	15	12	woderate	11/4	13	1 dil	Widderate	1411	Tan	LOW	wouerate	complete nange	Jep-Dec.	blight creatily white	
Corymbia Citriodora (nativė)	Lemon-Scented	20	12	Fast	n/a	FS	Moderate	Low	Moderate	Fair	Moderate	Moderate	Acid to Neutral	Jul-Nov.	White	E CHD R, LM, Aromatic leaves, attractive bark, architectural form, street tree
Corymbia eximia	Yellow Bloodwood	15	8	Moderate	n/a	FS	Fair	Moderate	Fair	High	Moderate	Moderate	Acid	Nov-Dec.	Bright White/Cream	E HA LM, S, R, Bird attracting
Corymbia ficifolia	Red-flowering Gum	15	12	Slow-Moderate	n/a	FS	Fair	Moderate	Fair	High	Low	Low	Complete Range	Mar	Bright Red/Oink/Orange	E DW LM, S, R, Bird attracting, Screening
Corvmbia maculata	Spotted Gum	18	8	Fast	n/a	FS	Moderate	Moderate	Fair	Fair	High	High	Complete Range	Apr-Jun.	White	E DA LM. S. R. Attractive Bark. Bird attracting. Street tree
Fucalvatus baxteri	Brown Stringybark	20	10	Moderate-Fast	n/a	FS	Moderate	Moderate	Moderate	Moderate	Low	Moderate	Acid to Neutral		White	
Eucalyptus buxteri	Mooly Stringybark	13	10	Moderate class	n/a	15	Fair	Foir	Moderate	High	Eow	Fair	Acid to Neutral	May Jul	White	5 UD D LM kird attracting aromatic loaves shading screepening out flower bush savies
Eucalyptus cinerea	Mealy Stringybark	12	10	woderate-slow	n/a	F5	Fair	Fair	woderate	High	Fair	Fair	Acid to Neutral	iviay-Jul.	white	E HD K, LW, Dird-attracting, aromatic leaves, shading, screeening, cut nower, bush garden
Eucalyptus cornuta	Yate	10	10	Moderate	n/a	FS	Fair	Fair	Fair	Fair	Fair	Unknown	Acid to Neutral	Sep-Nov.	Yellow	E CD R, LM, attractive bark, bird-attracting, aromatic leaves, screening, shading, bush garden
Eucalyptus largiflorens	Black Box	14	12	Slow	n/a	FS	High	High	Fair	High	Moderate	Unknown	Complete range	All	White	E MW Screening, shelter
Eucalyptus mannifera	Red Spotted Gum	12	10	Moderate-fast	n/a	FS	Moderate	Moderate	Moderate	High	Moderate	Moderate	Complete range	Apr-Jun.	White	E HD R, LM, attractive bark, bird-attracting, aromatic leaves, shading, accent tree, bush garden
Eucalyntus microcarna	Grev Box	15	10	Moderate	n/a	FS	High	Moderate	Moderate	High	Fair	Fair	Complete Range	Feb-Iul.	White	E HD IM S.R. Bird attracting Aromatic leaves
Eucaluntus nicholii	Narrow-Jeaved Black Penne		12	Moderate	n/a	ES	Moderate	Moderate	Moderate	Eair	Fair	Eair	Acid	Anr May-Son	Creamy-White/White	E UD attractive bark follows interact hird-attracting shading huch garden, aromatic leaves
Eucolyptus menom	Pard Day	1 14	12	Moderate	1/4	15	Woderate	Widderate	Moderate	1 an	1 dii	Madamta	Constants Doorse	Apr, Way-Sep.	creany-winte/ winte	E no actactive bark, rollage interest, bio-actacting, sharing basil galactic days
Eucalyptus polyantnemos subsp. vestita	Red Box	10	8	woderate	n/a	F5	High	LOW	woderate	High	woderate	woderate	Complete Range	Sep-Nov.	white	E AW S, R, Interesting Silver Foliage, Attractive bark, Bird attracting, Aromatic leaves
Eucalyptus rubida	Candlebark Gum	9	9	Fast	n/a	FS	High	Low	Low	Fair	Moderate	Low	Complete Range	Nov-Feb.	White	E DA S, Feature for Large Gardens, Interesting Bark, Fauna Attracting
Eucalyptus saligna	Sydney Blue Gum	10	15	Very Fast	n/a	FS	Fair	Low	Fair	Fair	Moderate	Low	Complete Range	Jan-Apr.	White	E MW LM, S, R, Attractive Bark, Bird attracting
Eucalyptus scoparia	Wallangarra White Gum	12	10	Fast	n/a	FS	Moderate	Moderate	Moderate	High	Moderate	Unknown	Acid to Neutral	Dec.	White	E HD attractive bark and foliage, bird-attracting, aromatic, shading, accent tree, bush garden
Fucalvatus sideraxylan	Bed Ironbark	15	8	Moderate	n/a	FS	High	Low	Moderate	High	Moderate	Moderate	Complete Range	May-Aug	Red or Pink	F DH LM S R Attractive bark Bird attracting Winter interest Aromatic leaves Screening Accent
Eucohyptus sacroxyton	Forest red gum	15	12	Fact	n/a		Low	High	High	High	Moderate	Low	Asid to Noutral	Mar May/June Neu	White	On Chaltering Organization Wildlich Attracting Andreas and and a solid and a solid attraction and a solid attractions attractions and attractions
Eucolyptus tereticornis	Forest red guili	15	12	FdSL	11/d	F3	LOW	nigii	High	rigi	wouerate	LUW	Acid to Neutral	Wal-Way/Julie-NOV.	white	E CW 5, steteme, ornanental, winder attacting, tage nowening period
Ficus macrophylla	Moreton Bay Fig	60	10	Fast	n/a	FS	High	Moderate	High	High N	Noderate	High	Complete Range	Sept-April	reddish purple fruit	E MLA R,LM Attracts seed eating birds and bats.
Ficus rubiginosa	Port Jackson Fig	10	10	Moderate	n/a	FS-PS	Moderate	Moderate M	Aoderate	Moderate	Low	Moderate	complete range	Sep-Dec.	Yellow fruit over summer	E C,D,A C,A, Feature tree. Fruit eaten by birds, bats and flying foxes
Grevillea robusta	Silky Oak	20	15	Fast	n/a	FS	Moderate	High M	Aoderate	Moderate	Low	Low	complete range	Nov-	Orange-Red	E D C,D,A, Important source of food for nectar feeding birds and fruit bats and bees
Lophostemon confertus	Brush Box	13	12	Moderate-fast	n/a	FS	Moderate	Moderate	Moderate	Fair	Moderate	Fair	Acid	Sep-Dec.	White	E CA R. LM, attractive bark, shading, street tree, bush garden
Wallemia nabilis	Wollomi Rino	20	10	Eact	n/2	CC	Enir	Low	Low	Low	Low	Low	Acid	N/A	Cones	E MAN E Architectural form foliage interest Accenticee Container
Annual hotel	Monfalls Island Disc	20	10	Fast	1/4	55-15	1 dil	Eow	LUw	Colo	LOW .	LOW	Conveliate Deser	11/2	Cones	WW 1, Atchitectural form, forage interest, Accent dee, Container
Araucaria neterophylia	Norroik Island Pine	20	15	Fast	n/a	FS	High	Fair	High	Fair	woderate	Fair	Complete Range	N/A	Cones	E CD LW, K, Architectural form, Accent tree, Contained
Cedrus deodara	Deodar Cedar	18	15	Moderate-Fast	n/a	FS	Moderate	Moderate	Moderate	Moderate	Moderate	Low	Complete Range	N/A	Cones	E HD S, Architectural form, Accent tree
Fraxinus 'Raywood'	Claret Ash	12	9	Moderate-fast	n/a	FS	Moderate	Moderate	Moderate	High	Moderate	High	Complete range	Nov-Dec.	Green	D HW autumn colour, clourful foliage, shading, accent tree
Fraxinus pensylvanica	Green Ash	12	10	Moderate	n/a	FS	High	Moderate	High	High	High	Unknown	Complete range	Sep-Nov,	Green	D MW Street tree, Good form, adaptable to site
Gleditsia triacanthos	Honey Locust	12	12	East	n/a	FS	Moderate	Eair	Moderate	Eair	Low	High	Complete range	Oct-Nov.	Greenish-vellow	D HD colourful foliage attractive bark autumn colour, allergenic spiny
Liquidamhas stusasiftua	American Succetaum	15	10	Mederate Fact	n/a	CC FC	Madarata	Low	Madarata	Mederate	High	Fair	Acid to Noutral	Oct	Croonich white	D MAN aromaticle and a suburne claure chading attract trace decidious
	American Sweetgum	15	10	WOUPrate-Fast	11/d	33-F3	wouerate	LOW	wouerate	Woderate	High	Fdll	Acid to Neutral	000	dieenisii-wiiite	D WWW aromatcheaves, automnt colour, shading, street they, becalloos
Magnolia grandiflora	Bull Bay	12	12	Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	Moderate	LOW	Complete range	Nov-Dec.	Creamy-white	E MW Interesting foliage, fragrant flowers, screeening, shading
Platanus × acerifolia	London Plane	16	15	Moderate-Fast	n/a	FS	Moderate	Unknown	Moderate	Fair	Fair	High	complete range	Sept.	Green	D HW attractive bark, Screening, shading, street tree, decidious
Quercus coccinea	Scarlet Oak	13	12	Moderate	n/a	PS-FS	Moderate	Moderate	Moderate	Moderate	Moderate	Unknown	Acid	Sep.	Yellow-Green	D HD autumn colour, screening, shading, green flowers, red leaves
Quercus palustris	Pin Oak	15	12	Moderate-East	n/a	SS-ES	Moderate	Low	Moderate	Moderate	High	High	Complete Bange	Sent.	Yellowish-Green	D MW S Autumn colour. Interesting foliage. Screening
Quercus rubra	Northern Red Oak	14	12	Moderate	n/a	PS-FS	Moderate	High	Moderate	Moderate	High	Moderate	Complete range	Sen	Reddish Green	D HD autimn colour shaling creating
California de la	And a second second	14	12	Madageta	11/4	1313	Toucrate	i iigii	Madanak		Madaget	Moderate	Complete fallge	Sep.	Million Green	5 CD Assemblishers and a set of the second set of the set of the set
Schinus molle	American Pepper	12	12	Moderate-fast	n/a	FS	Fair	LOW	Moderate	High	Moderate	Moderate	Complete range	Sep-Dec.	White/yellow	E CD Aromatic leaves, colourful fruit, interesting foliage, attractive bark
Sequoia sempervirens	Coast Redwood	20	10	Moderate	n/a	SS-FS	Moderate	Low	Moderate	Moderate	High	Low	Acid	N/A	Cones, Yellow/Brown/Green	n E MW F, Accent tree, Architectural form
Tilia cordata cultivars	Small-leaved Linden	15	10	Moderate	n/a	FS	Moderate	Moderate	Moderate	Low	Moderate	Moderate	Complete Range	Nov-Dec.	Yellowish White	D HW S, Fragrant flowers, autumn colour, Architectural form, Accent tree
Ulmus glabra 'Lutescens'	Golden Wych Elm	12	12	Moderate	n/a	FS	Moderate	Moderate	Moderate	Fair	Fair	Unknown	Complete range	Sep.	Brown	D HW colourful foliage, shading, accent tree
Illmus narvifolia	Chinese Elm or Lacebark	12	12	Moderate-fact	n/a	PS.FS	High	Moderate	Fair	Fair	Moderate	Moderate	Complete range	Mar-May	Green	D HW attractive bark screeping chading street tree
Lilmus processo	English Fire	16	12	Mederate	n/a	1313	Madarata	Moderate	Moderate	Madarata	High	High	Complete lange	East	Doddich Durol-	D III C Automotion, Society for a sector of a sector o
onnas procera	English Elm	10	12	woderate	n/a	+5	woderate	widderate	woderate	woderate	High	High	Complete Range	Sept.	Readisn-Purple	D ND 3, Autumn colour, Arcintectural form
Zeikova serrata	Japanese Zelkova	14	12	Moderate-fast	n/a	FS	Moderate	Moderate	Moderate	Moderate	Moderate	Fair	Complete range	Sep-Nov.	Yellow-Green	D HW attractive bark, autumn colour, shading

Species Palette 2 – Medium Trees

NDIGENOUS TO PROVIDENCE (Grown at	nursery/within Bayside)		Uses/traits key			Habitat Ke	ý.											
NDIGENOUS (Grown Outside Bayside)			R - Robust and H	lardy		H-Heath/	Woodland							High = tolerates well	without damage.			
NATIVE TREES (From Australia)	Full Sun = FS		LM - Low Mainte	enance		M - Moist/	Closed fore	st		UPL= Under Powe	r Lines		complete range	Fair= can tolerate me	edium levels			
XOTIC (From outside Australia)	Part Shade=PS		S - Shade			C – Coast –	dune scrub	& woodland					acid to neutral	Moderate = tolerate:	s somewhat with some ef	ffects in	low levels	
Additional Species	Shade = FSh		F - Feature			D – Prefers	dry, well d	rained soils &	tolerates drynes	ss once established.			acid	Low = suffers serious	damage to death if expo	osed		
			Sh – Prefers or to	olerates full shade		W-Prefer	s or tolerat	es moist soils,	wetness, period	dic inundation				Unknown	E=Evegreen			Please contact your local nursery or a horticultural professional for further advice.
						A – Adapta	ble, growir	g well in mos	t soil types						D=Decidious		All indige	nous plants provide habitat & food for local birds, insects & animals.
pecies that grow to a height greater that	9m+, and canopy greater than 6m+ a	t maturity		VC= Ecological Veg	etation C	ass				Tolerances								
BOTANICAL NAME	COMMON NAME	Mat. HEIGHT	Mat. CANOPY	Growth Rate	EVC	Sunlight	Wind	Salinity	Sea Spray	Drought	Waterlogging	Compaction	PH	Flowering Months	Flower colours	E/D	Habitat	Uses/Traits
Acacia mearnsii	Black Wattle	9	6	Fast	719, 3	FS	High	Low	Moderate	High	Fair	High	Acid	Sep-Nov.	Pale yellow or Cream	E	MW	R, LM, bird-attracting, screening, shading, bush garden, fragrant flowers
Allocasuarina littoralis	Black She-oak	9	6	Slow	719, 3	PS-FS	High	High	High	High	Moderate	Moderate	Complete range	Apr-May.	Red	E	CA	R, LM, foliage interest, screening, shading, bush garden, bird-attracting
Allocasuarina verticillata	Drooping She-oak	9	6	Moderate-slow	n/a	FS	High	High	High	High	Fair	Fair	Complete range	Mar-Dec.	Red	E	HD	architectural form, foliage interest, bird-attracting, screening, UPL, street tree, bush garden
Banksia integrifolia	Coast Banksia	10	6	Moderate	919, 921	FS	High	High	High	High	Moderate	Moderate	Complete range	Mar-Sep.	Lemon yellow to Red	E	CD	R, bird-attracting, foliage interest, Screening, Shading, Street tree
Eucalyptus ovata	Swamp Paperbark	10	6	Moderate	707	FS	Moderate	Low	Moderate	Moderate	High	High	Acid	Mar-Jun,	Creamy-White	E	MW	LM, S, R, Attractive bark, bird-attracting, aromatic
Eucalyptus pauciflora	Snow Gum	10	7	Moderate-fast	n/a	FS	High	Moderate	Moderate	Moderate	Fair	Moderate	Acid	Aug-Nov.	White or Cream	E	HD	LM, S, R, attractive bark and foliage, bird-attracting, Aromatic, Accent tree
Allocasurina torulosa	Rose She-oak	10	7	Fast	n/a	FS	High	High	Fair	Fair	Moderate	High	Acid to Neutral	Mar-Aug.	Red and brown	E	HD	Wind break, unique sound, screening, windbreak, decorative fruit
Brachychiton populneus (Native)	Kurrajong	15	6	Fast	n/a	FS	High	Moderate	Moderate	High	Low	Low	Complete Range	Sep-April	White, red, pink	E	C,D	R,F, LM, Attracts bees, seed eating birds, butterflies, insects.
Brachychiton rupestris (Native)	Queensland bottle tree	15	6	Slow	n/a	FS	High	Moderate	Moderate	Moderate	Low	Low	Complete Range	Oct-Dec	Cream	D	C,D	R,LM,F, Bird attracting flowers.
Brachychiton acerifolius	Illawarra flame tree	12	6	Fast	n/a	FS	Moderate	Low	Low	Moderate	Low	Low	Acid	Sep-Dec.	Red	D	DW	Attracts bees, nectar eating birds, butterflies, other insect
Melia azedarach (Native)	White cedar	10	6	Fast	n/a	FS	Moderate	High	High	High	Moderate	Moderate	Complete range	Sep-Nov	Lilac flowers	D	CDWA	R,LM,S,F, Bird and bats are attracted to the berries.
yzygium paniculatum (Native)	Brush cherry	15	8	Voderate to Fast	n/a	FS-PS	Low	Moderate	Moderate	High	Moderate	High	Acid to Neutral	Nov-Jan.	White	E	M,C,A	LM, S, R, Bird and bee attrafting
yzygnium australe (native)	Lilly Pilly	10	6	Fast	n/a	FS	High	High	Low	Moderate	Low	Low	Complete Range	Sep-Oct	White/cream	E	WA	RL Flowers and berries attracts birds and bats.
Acer rubrum 'Brandywine'	Maple, Autumn Flame	9	6	Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	High	Moderate	Acid	Sep-Oct.	Bright Red	D	MW	S, Autumn Colour - Oange to purple-red, foliage interest, Ornamental
Acer rubrum 'October Glory'	Maple, Lipstick Tree	12	9	Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	High	Moderate	Acid	Sep-Oct.	Red or orange	D	MW	S, Foliage interest, Ornamental, Autumn colours - *superior if grown in full sun
Acer x freemanii	Armstrong	12	6	Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	High	Moderate	Acid	Sep-Oct.	Red	D	MW	S, Autumn Colour, foliage interest, Ornamental
Catalpa bignonioides	Indian Bean Tree	10	7	Fast	n/a	FS	Low	Low	Low	Fair	Moderate	Unknown	Complete range	Nov-Dec.	White	D	MW	interesting foliage, autumn colour, shading, accent
Celtis occidentalis	Hackberry	8	8	Moderate	n/a	FS	Moderate	Moderate	Moderate	Moderate	Moderate	Unknown	Complete range	Sep-Nov.	Yellowish Green	D	HD	S, Autumn colour. Attractive bark
raxinus excelsior 'Aurea'	Golden Ash	10	7	Moderate	n/a	FS	Moderate	Low	Moderate	Moderate	High	High	Complete range	Sep-Oct.	Green	D	HW	LM, S, R, Colourful foliage, Autumn colour
acaranda mimosifolia	Jacaranda	12	8	Slow	n/a	PS-FS	Moderate	Low	Moderate	Moderate	Low	Fair	Complete range	Oct-Nov.	bluish-purple	D	CD	interesting and aesethic foliage, blue flowers, shading, accent tree
Metrosideros excelsa	Pohutukawa	10	8	Moderate-slow	n/a	FS	High	Moderate	High	High	Moderate	Moderate	Complete range	Dec.	Crimson and yellow	E	CA	R, LM, attractive bark, bird-attracting, hedging, screening, shading
Pyrus calleryana and other cultivars	Flowering Pear	10	4-8	Fast	n/a	PS-FS	Moderate	Low	Moderate	Fair	High	High	Complete range	Sep-Oct.	White	D	HW	S, Screening, Street tree, Autumn colour

Species Palette 3 – Small Tree

INDIGENOUS TO PROVIDENCE (Grown at	nursery/within Bayside)				Uses/traits key			Habitat Key									
INDIGENOUS (Grown Outside Bayside)			UPL=Under Pow	er Lines	R - Robust and H	lardy		H – Heath/Wo	odland					High = tolerates well v	without damage.		
NATIVE TREES (From Australia)	Full Sun = FS				LM - Low Mainte	enance		M - Moist/Clos	ed forest				complete range	Fair= can tolerate med	dium levels		
EXOTIC (From outside Australia)	Part Shade=PS				S - Shade			C – Coast – dur	ne scrub & wo	odland			acid to neutral	Moderate = tolerates	somewhat with some	effects in low l	vels
Additional Species	Shade = FSh				F - Feature			D – Prefers dry	, well drained	d soils & tole	rates dryness ond	e established.	acid	Low = suffers serious	damage to death if exp	osed	
*PLEASE NOTE THE BELOW INFORMATIO					Sh – Prefers or t	olerates full shade		W – Prefers or	tolerates mo	ist soils, wetr	ness, periodic inu	ndation		Unknown		Please	contact your local nursery or a horticultural professional for further advice.
Use of any of the below species is prefer								A – Adaptive,	an grow in m	ost soil types						All ind	genous plants provide habitat & food for local birds, insects & animals.
SMALL CANOPY TREES - Species that read	h 6-8metres in height and a spre	ead of 4m @ matu	rity		EVC= Ecological	Vegetation Class				Toleran	ces				Everg	reen/Deciduou	
BOTANICAL NAME	COMMON NAME	Mat. HEIGHT	Mat. CANOPY	Growth Rate	EVC	Sunlight	Wind	Salinity	Sea Spray	Drought	Waterlogging	Compaction	SOIL PH	Flowering Months	Flower colours	E/D Habita	Uses/Traits
Acacia implexa	Lightwood	8	4	Moderate	n/a	PS-FS	Fair	Moderate	Moderate	High	Fair	Fair	Acid	Dec	Cream-white	E HI	A R, LM, S, Bird-attracting, attractive bark, screening,
Leptospermum laevigatum	Coast Tea-tree	6	3	Moderate	919, 921	FS	High	High	High	High	Moderate	Moderate	Complete Range	Aug-Oct.	White	E CI	A R, LM, Bird-attracting, hedging, screening
Bursaria spinosa	Sweet Bursaria	6	3	Moderate-Fast	n/a	PS-FS	Fair	Fair	Fair	High	Fair	Fair	Acid to Neutral	Mar-Dec	Cream-white	E FE	A R, LM, Fragrant, thorns, hedging, screening, UPL
Banksia marginata	Silver Banksia	5	3	Moderate	719, 892, 3	PS-FS	High	High	Fair	High	Fair	Moderate	Acid to Neutral	Mar, May-Nov.	Pale Yellow	E HC	DA R, LM, S, Bird-attracting, Winter features, Screening, UPL
Melaleuca squarrosa	Scented Paperbark	3	1.5	Moderate	n/a	PS-FS	High	Moderate	Fair	Moderate	High	High	Complete range	Sep-Dec.	Cream-White	E HN	W R, LM, S, Bird-attracting, Fragrant, screen, UPL, Ornament pond
Acacia pendula	Weeping Myall	6	3	Slow-Moderate	n/a	FS	High	Low	High	Moderate	Moderate	Fair	Complete range	May, Jul-Oct.	Yellow/Creamy whit	e E C	 R, LM, Fragrant, thorns, hedging, screening, UPL
Angophora hispida (Native)	Dwarf apple gum	7	5	Moderate	n/a	FS	High	High	High	Moderate	Low	Low	Acid - neutral	Sep-Dec	Cream-White	E CI	A R,LM,F, Attracts honey eaters and other nectar eating birds
Banksia grandis	Bull Banksia	8	4	Moderate	n/a	FS	High	High	High	High	Low	Low	Mild acidic to Mild alkaline		Crème, Yellow	E	
Banksia serrata	Saw Banksia	5	5	Slow	n/a	PS-FS	High	High	High	High	Moderate	Moderate	Mild acidic to Mild alkaline	Mar, May, Aug-Dec.	Yellow-Creamy gree	n E M	R, LM, S, Bird-attracting, Winter features, Screening, UPL
Callistemon viminalis (native)	Weeping Callistemon	4	4	Fast	n/a	FS-PS	Moderate	Moderate	Moderate	High	High	Moderate	Complete range	Sep-Oct.	Red	E W	A R,F, Attractive new foliage, showy bird attractant flowers
Cupaniopsis anacardioides (native)	Tuckeroo	7	4	Fast	n/a	FS-PS	Moderate	High	High	Moderate	Low	Low	Complete range	Sep-Oct.	White	E D	A R,LM, bird attractant
Eucalyptus viridis	Green mallee	8	4	Slow-Moderate	n/a	FS	Moderate	Moderate	Unknown	High	Moderate	Moderate	Mild acidic to Mild alkaline	Dec-Mar	White	E CI	A R,LM, attractive small eucalypt, attracts bees and nectar eating birds.
Geijera parviflora (naative)	Wilga	8	6	Slow	n/a	FS	High	High	Moderate	High	Low	Low	Alkaline	June-Nov	Whiate	E D	 R,LM, ornamental, hardy species that attracts birds, butterflies, lady beetles.
Hakea spp. (native)	Hakea	6	4	Moderate to Fast	n/a	FS	Moderate	Moderate	Moderate	High	Low	Moderate	Acid	May, Jul-Oct.	various	E C	RF, bird and butterfly attracting, cockatoos, Iconic australian native
Hymenosporum flavum (Native)	Native frangipani	8	4	Slow - Moderate	n/a	FS-PS	Moderate	Low	Moderate	High	Low	Low	Acid - neutral	March to July	Blue-black edible fru	it E M	N R, bird attracting, screening, decorative fruit, foliage used for flower arranging
Melaleuca ericifolia	Melaleuca	5	2	Moderate		FS-PS	High	Moderate	Moderate	High	High	Moderate	Acid - neutral	Aug-Nov	Cream	E	
Stenocarpus sinuatus	Firewheel tree	8	5	Slow	n/a	FS-PS	Low	Moderate	Low	High	Moderate	Low	Acid	Sep	Orange, Red	E V	L,MF Summer flowering tree that provides nectar and shelter for birds
Taxandria juniperina (native)	Native cedar	7	4	Fast	n/a	PS	High	Moderate	Moderate	Moderate	Low	Moderate	Complete range	March-June	White	E C	A R, LM Aromatic foliage, attracts insect eating birds.
Tristaniopsis laurina	Kanooka, Water gum	5	5	Slow-Moderate	n/a	PS-FS	Moderate	Low	Moderate	Fair	High	High	Acid-Neutral	Dec.	Yellow	E M	N R, LM, aesthetic, bird-attracting, under powerline, shading, screening
Waterhousia floribunda (native)	Weeping lilypilly	6	4	Moderate to Fast	n/a	FS-PS	Low	Moderate	Moderate	High	Moderate	High	Acid to Neutral	Nov-Jan.	White	E M,	,A LM, S, R, Bird and bee attrafting
Acer campestre	Field Maple	7	6	Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	High	Moderate	Acid	Sep-Oct.	yellow-green	D M	V S, Autumn Colour, foliage interest, Ornamental
Acer negundo	Flamingo	5	4	Slow-Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	High	Moderate	Acid	Sep-Oct.	yellow-green	D M	V S, Autumn Colour, foliage interest, Ornamental
Acer palmatum 'Atropurpureum'	Japanese Maple	4	3	Slow-Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	High	Moderate	Acid	Sep-Oct.	Red	D M	V S, Autumn Colour, foliage interest, Ornamental,
Acer rubrum 'Bowhall'	Red Maple	8	4	Moderate	n/a	PS-FS	Moderate	Low	Moderate	Moderate	High	Moderate	Acid	Sep-Oct.	Pale Orange	D M	V S, Autumn Colour, foliage interest, Ornamental
Kalamata olive	Olive	6	3	Slow-Moderate	n/a	FS	High	Fair	High	Fair	Fair	Moderate	Complete range	Sep-Nov.	White	E D	A R, LM
Koelreuteria paniculata	Golden Rain Tree	8	8	Slow	n/a	PS-FS	Moderate	Fair	Moderate	High	Moderate	Fair	Complete range	Nov-Jan.	Bright yellow	DI	R, LM, F
Lagerstroemia indica	Crepe Myrtle	6	7	Moderate	n/a	FS	Low	Moderate	Moderate	Fair	Low	Low	Acid-Neutral	Mar-Apr.	Pink/Purple/White	D C) R, LM, Sh, F
Olea europaea subsp. europaea	Olive	8	6	Slow-Moderate	n/a	FS	High	Fair	High	High	Fair	Moderate	Complete range	Sep-Nov.	Creamy white	E D	A R, LM
Photinia robusta	Photinia	15	4	Slow-Moderate	n/a	FS	High	Moderate	Moderate	High	Low	Low	Complete range	Oct-Nov	White	E C,I	A R,LM,S,F, Bird attractant
Rhododendron arboreum	Rhododendron	12	4	Moderate	n/a	PS	Moderate	Low	Low	Low	Low	Low	Acid	June-Nov	Various	E W	A Grown for showy flowers, All parts of the Rhododendron are considered toxic.

Species Palette 4 – Medium to Large

INDIGENOUS TO PROVIDENCE (Grown	n at nursery/within Bayside)		Uses/traits key			Habitat Key											
INDIGENOUS (Grown Outside Bayside	2)		R - Robust and H	lardy		H – Heath/V	/oodland	Ri = Riparia	an forest (inter	rface betwee	n land and river/s	stream)			High = tolerates well without dama	age.	
NATIVE TREES (From Australia)	Full Sun = FS	UPL=Under	LM - Low Mainte	nance		M - Moist/C	losed forest							complete range	Fair= can tolerate medium levels		
EXOTIC (From outside Australia)	Part Shade=PS	Power Lines	S - Shade			C – Coast – c	lune scrub 8	& woodland						acid to neutral	Moderate = tolerates somewhat w	ith some effec	ts in low levels
Additional Species	Shade = FSh		F - Feature			D – Prefers o	dry, well dra	ained soils &	tolerates dryn	iess once esta	blished.			acid	Low = suffers serious damage to de	eath if exposed	
*PLEASE NOTE THE BELOW INFORMATION			Sh – Prefers or to	olerates full shade		W – Prefers	or tolerates	moist soils,	wetness, peri-	odic inundatio				Alkaline		Please o	contact your local nursery or a horticultural professional for further advice.
Use of any of the below species is pre-		se species				A – Adaptab	le, growing	well in most	soil types					Unknown		All indig	genous plants provide habitat & food for local birds, insects & animals.
MEDIUM TO LARGE SHRUBS	Species that reach 2-5 metre	es in height		EVC= Ecological V	Vegetation Class					Tolerand	es				Evergre	een/Deciduous	
BOTANICAL NAME	COMMON NAME	Mat. HEIGHT	Mat. CANOPY	Growth Rate	EVC	Sunlight	Wind	Salinity	Sea spray	Drought	Waterlogging	Compaction	pH Range	Flowering period	Flower colours	E/D Habitat	Uses/Traits
Acacia longifolia subsp. sophorae	Coast Wattle	4	4	Very Fast	n/a	PS-FS	High	High	High	High	Moderate	Moderate	Complete	Jun-Oct.	Pale Yellow	E CW	R, LM, A, Bird-attracting, winter interest, screening, UPL
Acacia oxycedrus	Spike Wattle	4	3	Moderate	n/a	PS-FS	High	Moderate	Fair	Fair	High	Moderate	Acid-Neutral	Jul-Oct.	Bright Yellow	E HWD	R, LM, A, bird-attracting, Winter features, Screening, foliage interest
Acacia paradoxa	Hedge Wattle	3	2	Moderate	719	PS-FS	High	Low	Moderate	Fair	Fair	High	Acid-Neutral	Aug	Bright Yellow	E HCD	A, bird-attracting, winter Features, spiny or thorny
Acacia stricta	Hop Wattle	4	2	Fast	n/a	PS-FS	High	Moderate	Fair	Fair	Moderate	Low	Acid-Neutral	May-Oct.	Pale Yellow	E HCMV	V R, LM, A, Sh, architectural form, bird attracting, Screening, UPL
Alyxia buxifolia	Sea Box	2	2	Slow	n/a	PS-FS	High	High	Fair	Fair	Moderate	Unknown	Complete	Mar, Oct-Dec.	Orange to White cream at tip	E HCD	Colourful fruit, allergenic, Screening, Hedging
Cassinia longifolia	Long-leaf Cassinia	3	2	Fast	n/a	PS-FSh	Moderate	Moderate	Moderate	Moderate	Fair	Moderate	Acid	Nov-Dec.	White	E HMDV	V Sh, Aromatic leaves, Screening, Under powerlines
Exocarpos cupressiformis	Cherry Ballart	4	3	Slow-Moderate	719, 3	PS-FS	Moderate	Moderate	Moderate	High	Moderate	Unknown	Acid-Neutral	n/a	n/a	E HD	Screening, Under powerlines, interesting foliage, colourful
Cassinia aculeata	Common Cassinia	2	1	Moderate	719, 3	PS	Moderate	Low	Moderate	Fair	Fair	Unknown	Complete	Nov-Dec.	Creamy white/white	E HD	A, Screening, Aromatic leaves
Indigofera australis	Austral Indigo	2	1.5	Fast	n/a	PS-FS	Moderate	High	Moderate	Fair	Moderate	Unknown	Acid-Neutral	Aug, Oct-Dec.	Pinkish/Soft Purples	E HMW	 A, interesting foliage, allergenic, Pink/Purple flowers, Screening, Shrub border
Kunzea leptospermoides	Yarra Burgan	3	2	Moderate	n/a	PS-FS	Moderate	Moderate	Low	High	Low	Low	Complete	Nov-Feb.	White	E HWR	A, R, Screening, Bird/Butterfly attracting
Leptospermum continentale	Prickly Tea-tree	3	2	Moderate	719, 892, 707, 3	B PS-FS	High	High	High	Fair	Fair	Unknown	Acid	Oct-Dec.	White, rarely pale pink	E HCW	A, Attractive Bark, Bird-Attracting, Screening
Leucopogon parviflorus	Coast Beard-heath	3	2	Slow	919, 921	PS-FS	High	High	High	High	Low	Unknown	Complete	Jul-Nov.	White	E HCDW	V Edible, Hedging, Screening
Myoporum insulare	Common Boobialla	5	3	Moderate	n/a	PS-FS	High	High	High	High	Fair	Fair	Complete	Jul-Oct.	White, Occasionally pale pink	E CD	R, LM, A, bird-attracting, attractive bark,allergenic, hedging, screening, UPL, Shade
Olearia axillaris	Coast Daisy-bush	2	2	Moderate	n/a	PS-FS	High	High	High	High	Moderate	Unknown	Acid	Mar-Jul, Nov-Dec.	Cream- Greenish or crimson tinge	E CD	Silver foliage, shrub mass, screening, shrub or mixed border
Olearia glutinosa	Sticky Daisy-bush	2	2	Moderate	n/a	PS-FS	Moderate	Moderate	High	High	Low	Low	Unknown	Nov-Feb.	Cream-white	E CD	R, A, Long flowering, background
Ozothamnus ferrugineus	Tree Everlasting	3	2	Moderate	n/a	PS-FS	Unknown	High	High	Moderate	Low	Fair	Unknown	Nov-Feb.	White	E MDW	/ R,A
Pomaderris paniculosa	Shining Coast Pomaderris	2	1.5	Moderate	n/a	PS-FS	Moderate	Moderate	High	Moderate	Moderate	Low	Unknown	Jul-Nov.	Yellow	E HMW	/ R, LM, F, Screening, Attracts birds and butterflies
Solanum laciniatum	Large Kangaroo Apple	2	2	Moderate	n/a	PS-FS	High	High	Low	Low	Low	Low	Acid-Neutral	Sep-Mar.	Purple-Blue	E HCD	R, LM, A, Sh
Viminaria juncea	Golden Spray	4	2	Fast	n/a	FS	Moderate	High	High	High	High	High	Complete	Oct-Feb.	Yellow-Orange, with red markings	s E W	R, LM, A, Sh
Xanthorrhoea thorntonii	Grass Tree	3	1.5	Slow	n/a	PS-FS	Moderate	High	High	Moderate	Low	Unknown	Unknown	Aug-Dec.	Cream-white	E HD	R, LM,Sh
Xanthorrhoea australis	Grass Tree	3	2	Slow	n/a	PS-FS	High	Moderate	Low	High	Low	Low	Acid-Neutral	Jul-Dec.	White or cream	E HDM	I R, LM,Sh
Adenanthos cunninghamii	Albany wollybush	2	3	Moderate	n/a	FS	High		High	High	Moderate	Low	ld Acid-Mild Alka	i Mar-Oct	Red,Pink	E CDA	R,LM,S,F, Attracts small nectar eating birds
Erimophila longifolia	Long-leaved Eremophila	3	3	Moderate	n/a	FS	Moderate	Unknown	Unknown	High	Low	Low	Acid-Neutral	All year	Pink to brick red	E HD	R,LM, Attracts bees and small birds, particuarly for winter flowering
Calothamnus quadrifidus	One sided bottlebrush	3	5	Fast	n/a	FS	High	Low	Low	High	Moderate	Moderate	Mild Acid-Alkalin	e June-Dec	Red,White	E CDA	R,LM, ideal hedging and screening plant, atracts birds
Chamelaucium spp.	Geralton Wax	3	3	Fast	n/a	FS/PS	Moderate	Unknown	High	High	Low	Low	Acid-Neutral	Aug-May	White,Pink,Purple	E CD	R,LM, flowers attract nectar eating birds, butterflies
Xanthorrhoea preissii	Grass tree / Balga	3	1	Very Slow	n/a	FS	High	Moderate	Fair	High	Low	Low	Complete range	No Set time	Cream to White	E HCD	bird and butterfly attracting, cockatoos, Iconic australian native
Grevillea spp. (N)ative)	Grevillea	2	2	Fast	n/a	FS	Moderate	High	Moderate	Moderate	Low	Low	complete range	Nov-May	Orange-Red	E DC	R,LM,F important source of food for nectar feeding birds and fruit bats and bees
Hakea spp.	Needle bush	4	3	Moderate to Fast	st n/a	FS	Moderate	Moderate	Moderate	High	Low	Moderate	Acid	May, Jul-Oct.	Red, Pink, Yellow	E CD	RF, bird and butterfly attracting,cockatoos, Iconic australian native
Westingeria fruticosa	Coastal Rosemary	2	4	Fast	n/a	FS	High	High	High	High	Low	Moderate	Alkaline	Sep-Dec	White,Mauve	E CD	R,LM,A, attracts birds
Escallonia lveyi €	Escallonia	2	2	Fast	n/a	FS	High	High	High	High	Low	Low	Alkaline	Jan-Mar;Oct-Nov	White	E CDA	LM,S,F bird attractant, scented flowers, long flowring period
Hibiscus sinensis	Hibiscus	3	3	Moderate	n/a	FS	Moderate	Moderate	Moderate	High	Low	Low	Acid-Neutral	Sep-Dec;Mar-June	Various	E DA	R,LM,F, Flowers attract bees and small birds
Myrtus communis	Common Myrtle	5	3	Slow-Moderate	e n/a	FS	Low	Moderate	Moderate	High	Low	Low	Alkaline	Sep-Dec	White	E DA	R,LM, Bees attracted to flowers and birds attracted to the berries
Juniperus communis	Common juniper	5	4	Slow	n/a	FS	High	Moderate	High	Moderate	Low	Low	Complete	May-June	Cone - Berries	E CDA	R,LM, attracts bees and nectar eating birds

INDIGENOUS TO PROVIDENCE (Grown at nu	ırsery/within Bayside)		<u>Uses/traits key</u>			Habitat Ke	<u>Y</u>										
INDIGENOUS (Grown Outside Bayside)			R - Robust and H	lardy		H – Heath,	/Woodland	Ri = Riparian f	orest (interface	between land and riv	ver/stream)			High = tolerates	well without damage.		
NATIVE TREES (From Australia)	Full Sun = FS		LM - Low Mainte	enance		M - Moist,	Closed forest						complete range	Fair= can tolerat	te medium levels		
EXOTIC (From outside Australia)	Part Shade=PS		S - Shade			C – Coast -	- dune scrub 8	woodland					acid to neutra	Moderate = tole	rates somewhat with some effects in	low level	Is
Additional Species	Shade = FSh		F - Feature			D – Prefer	s dry, well dra	ined soils & to	lerates dryness (once established.			acio	Low = suffers se	rious damage/Could be fatal		
			Sh – Prefers or to	olerates full shade	e	W – Prefe	rs or tolerates	moist soils, w	etness, periodic	inundation				Unknown		Plea	ase contact your local nursery or a horticultural professional for further advice.
						A – Adapta	able, growing	well in most so	oil types							All i	indigenous plants provide habitat & food for local birds, insects & animals,
SMALL SHRUBS	Species that reach 50cm to 2 metri	es in height		EVC= Ecological	Vegetation C	lass	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Tolerances					Evergree	n/Decidu	inus
BOTANICAL NAME	COMMON NAME	Mat, HEIGHT	Mat. SPREAD	Growth Rate	FVC	Sunlight	Wind	Salinity	Sea spray	Drought	Waterlogging	Compaction	pH Range	Elowering perio	d Elower colours	E/D Hab	itat Uses/Traits
Acacia brownii	Heath Wattle	1	1	Moderate	n/a	PS	Moderate	Moderate	Moderate	High	Moderate	Unknown	Acid-Neutral	lun=Oct	Vellow	E H	D. Groupd cover and shrub interesting foliage
Acacia suaveolens	Sweet Wattle	2	2	Moderate	n/a	PS-FS	Moderate	Moderate	High	High	Low	Moderate	Acid-Neutral	Apr-Sent	Pale Vellow & White	E H	D B Long flowering nerion Attracting Fauna attracting
Acacia ulicifolia	Junioer Wattle	1	1	Moderate	n/a	DC	Moderate	Moderate	Moderate	Moderate	Eair	Linknown	Acid	Apr-Oct	Pale Cream	E 10	W A P IM Bird Attaction creating
Allocasuaring paradoxa	Green She-oak	15	15	Slow	2	DC.EC	High	Moderate	High	Eair	High	Moderate	Acid	Mar-Oct	Pad	E 110	A, A, LW, bit addressing following St. Linder powerlines. Bird attracting
Antus origoidos	Common Actus	1.5	1.5	Fact		DC CCh	Mederate	Moderate	Low	Madarata	Low	Moderate	Acid Noutral	Aug Neu	Cold with rod & orange	E 10	D Sh Dita Maramatal
Atrialay sinaran	Coast or Croy Salthush	2	2	Madarata	n/a	FS-FSII	Widerate	Woderate	LUw	Widderate	Madarata	Moderate	Complete	Aug-NOV.	Bod & White	E 11	ND 31, K, DV, Ontaniental
Passiana sinaraa	Coast of Grey Saltbush	1	1	Fact	n/a	F511-P5	High	Madarata	Mederate	High	wouerate	wouerate	Linknown	Aug Nov	Celd/vellew to Bed/purple brown	E U	D Live, n, ground cover, neege, son rendomation, erosion and stabilisation
Constant aller	Showy bussided	1	1	FdSt	II/d	F3-F3	High	Woderate	Woderate	nigh	LUW	LUW	Conclute	Aug-IVOV.	Bisk 9 white	E 11	CD Ontainental, K, Heuge, Scieening, attractive, currings
	White Correa	1	1	Ivioderate	n/a	FS-PS	High	High	High	High	Noderate	Noderate	Complete	Iviar-Sep. Nov.	Pink & White	E (A, K, LW, Aromatic, Power lines, nedging, cover, shrub mass
Corred rejexa	Common Correa	1	1	woderate	n/a	FS-PS	woderate	woderate	woderate	woderate	woderate	woderate	Acid	iviar-sep.	Green & Red	E 1	H K, Sh, A, Winter aestnetic, shrub mass, biro attracting
Daviesia ulicifolia	Gorse Bitter-pea	1	SUCM	Fast	n/a	FS-PS	High	Low	Moderate	High	Low	Unknown	Complete	Aug-Dec.	Red & Yellow	E 1	A, Bird attracting
Dillwynia cinerascens	Grey Parrot-pea	60cm-1.5	50cm-1.5	Moderate	n/a	FS-PS	Moderate	Low	Low	High	Low	Moderate	Complete	Jul-Nov.	Yellow & Orange	E H	D Sh, Urnamental, floral display
Dillwynia glaberrima	Heath or Smooth Parrot-pea	1	50cm	Moderate	719, 892, 3	FS-PS	Moderate	Low	Low	Moderate	Low	Low	Acid-Neutral	Aug-Dec.	Yellow, red centre	E H	D Sh, Attractive, cut flowers, container plant, tolerates heavy pruning
Epacris impressa	Common Heath	1	50cm	Moderate	719, 892, 3	FS-PS	Moderate	Low	Low	Moderate	Low	Low	Acid	May-Nov.	White, Pink & red	E HC	DW A, F, R, Attractive, Cut flowers, container plant, revegetion works, nectar
Goodenia ovata	Hop Goodenia	1	1	Fast	n/a	FS-PS	High	Fair	Fair	Fair	Fair	Moderate	Complete	Aug-Feb.	Bright yellow, red centre	E H	IC A, R, LM, F, Cut flower, container plant, revegatation
Gompholobium huegelii	Common Wedge-pea	30cm-1	30cm-1m	Moderate	n/a	FS-PS	Moderate	Low	Low	Moderate	Low	Low	Acid-Neutral	Sep-Apr.	Cream to Yellow & Greenish	E H	CD Sh, Attractive, A, F, R
Hibbertia fasciculata var. prostrata	Stalked/Bundled Guinea-flower	50cm	30cm	Moderate	892	FS-PS	High	Moderate	Moderate	High	Low	High	Complete	Sep-Dec.	Bright Yellow	E H	ID LM, A, R, F, hedge
Hibbertia riparia	Erect Guinea-flower	50cm	50cm	Moderate	719, 3	FS-PS	Fair	Low	Low	Fair	Fair	Low	Complete	Sep-Dec.	Yellow	E H	W A, Attractive, R, LM, F
Hibbertia sericea	Silky Guinea-flower	30cm-1	60cm	Slow	n/a	FS-PS	High	High	High	High	Low	Moderate	Complete	Aug-Nov.	Bright Yellow	E H	CD R, LM, A, F
Isopogon ceratophullus	Horny Cone-bush	20cm-60cm	50cm	Slow	n/a	FS	High	Low	Low	High	Low	Low	Complete	Sep-Nov.	Yellow	E H	CD R, LM, A, F
Lasiopetalum baueri	Slender Velvet-bush	1	1	Moderate	n/a	FS-PS	High	Low	Low	High	Low	Low	Complete	Jun-Nov.	Pink & White	E C	D H, A, Ornamental, Hedge, F, Screening, Bird attracting
Leptospermum myrsinoides	Heath or Silky Tea-tree	1.5	1	Moderate	719, 892, 3	FS-PS	High	Moderate	Moderate	High	Moderate	Low	Acid-Neutral	Jun-Nov.	Pink & White	E I	H A, Screen, Hedge, F, Bird attracting, Soil control
Leucophyta brownii	Cushion Bush	50cm	50cm	Moderate	919	FS	High	High	High	High	Low	Low	Complete	Dec-Feb.	Yellow, Silver, Grey-Brown	E H	CD A, R, LM, edge defining, insect attracting
Leucopogon virgatus	Common Beard-heath	50cm	50cm	Moderate	719, 892, 3	FS-PS	High	Moderate	Moderate	High	Moderate	Low	Complete	Jul-Dec.	Pink & White	E H	CD A, R, LM, F, Bird attracting, hedge
Monotoca scoparia	Prickly Broom-heath	30cm-1.2	30cm-1.2	Moderate	892	FS-PS	High	Moderate	Moderate	High	Moderate	Low	Complete	Mar-Jul,	Pink & White	E H	CD A, R, LM, Screen, barrier, hedge, Soil Control
Myoporum petiolatum	Sticky Boobialla	1.5	1.5	Moderate	n/a	FS	High	High	High	High	Moderate	Low	Complete	Oct-Feb.	White	E H	CD A, R, LM, F, Soil control
Olearia ramulosa	Twiggly Daisy-bush	1.5	1	Moderate	n/a	FS-PS	High	Moderate	Moderate	High	Moderate	Low	Complete	Sep-Nov.	Blue	E H	CD A, R, LM, Ornamental
Rhaaodia candolleana subsp. Candolleana	Seaberry Saltbush	1	2	Moderate	919, 921	FS	High	High	High	High	Moderate	Low	Complete	Sep-Feb.	Green	E H	CD A, B, LM, soil control, habitat refuge
Ricinocarpus pinifolius	Wedding Bush	1-3	1	Moderate	n/a	FS	High	Low	Low	High	Low	Low	Acid-Neutral	Sep-Eeb.	White	F H	ID A. B. I.M. F. Nectar. Hedge. Screen
Sambucus auadichaudiana	White Elderberry	2	2	Moderate	919, 921	PS	Moderate	Low	low	Moderate	High	Low	Acid-Neutral	Sep-Eeb.	White	D HN	W IM Sh, Bird attracting
Suaeda australis	Austral Seablite	50cm		Moderate	n/a	FS	High	High	High	High	High	Low	Complete	Sep-Feb.	Green & Bed	E HO	W A. B. LM. neriodic inundation, bird attracting, can make dves with foliage
Fremonhila nivea	Emu bush or Silky Ememorphila	1.5	1.5	Moderat-East	n/a	FS	High	Moderate	High	High	Low	Low	Complete	Sep-lan	Purple	E II	D BIM Attracts birds and butterflies, tolerant of frost and responds well to pruning.
Grevillea son	Grevillea	1.5	1.5	Fast	n/a	FS	High	High	High	High	Low	Low	Acid-Neutral	All year	red orange or vellow	F CI	DA BIM attracts bees and pertar eating birds
Philotheca myonoroides	Long-leafed Way flower	1.5	1.5	Fast	n/a	FS	Moderate	Low	Low	Moderate	Low	Low	Acid-Neutral	Sen-Dec	White	F	D BIM attracts bees butterflies and pertareating birds
Prostanthora rotundifolia	Native mint buch	2	2	Fast	n/a	FC	Moderate	Low	Low	Widderate	Low	Low	Acid Neutral	Sep-Dec.	Burelo	E D	N,LW, Bichards bees, butternies and increate administration or day
Prostantinera rotanaijolia	Common juninor	2	2	FdSL	n/a	F.5	Widerate	Madarata	LUw	Mederate	LOW	LOW	Complete	Sep-Dec.	Cono Borrios	E D	A N, LW, Flowers attract bees and beneficial insects to garden
Samperus communis subsp.	Coluitor juniper	2	4	Slow	II/d	F3	High	Woderate	nigii	woderate	LUW	LUW	Complete	iviay-surie	colle - Berries	E L	A NUM, F, Dernes carrattate bross
Salvia subsp.	Salvia	1	BUCM	Fast	n/a	F5/P5	High	High	High	High	LOW	Noderate	Acid	Sep-June	various	E CI	DA R, LW, attracts bees and nectar eating birds
Chalese ann	Lavenual	1	15	Fast	n/a	F5	High	LOW	High	High	Low	woderate	Aikaine	Sep-June	Lavender	E CI	UM N, LIVI, F, ditiduis Dees
cnoisya spp.	wexican orange blossom	1	1.5	Fast	n/a	FS/PS	LOW	woderate	High	woderate	Low	LOW	Complete	Aug-Nov.	white	E (1	JA S,Sh, ornamental plant, can be trained to a nedge
Gardenia spp.	Gardenia	1.5	1.5	Slow	n/a	FS/PS	LOW	LOW	LOW	High	Low	LOW	Acid	Nov-May	Creamy white	E N	F, ornamental shrub with highly trangant flowers
knapniolepsis spp.	Indian hawthorn	2	1.5	Slow	n/a	FS	High	High	High	High	Low	LOW	Complete	Sep-Jan	White-Pink	E CI	JA K,LM,F
Hebe buxifolia (Hebe	1	1	Fast	n/a	FS	High	High	High	High	Low	Low	Alkaline	June-Sep	/hite,pink,blue,deep purple, crimso	E C	D R,LM, attracts bees and butterflies
Sedum spp.	Stonecrop	0.6	1	Fast	n/a	FS-PS	High	High	High	High	Low	High	acid to neutral	Dec-March	Yellow, orange, pink or white	CDA Attr	racts Attracts bees, butterflies

Species Palette 5 – Small Shrubs

Species Palette 6 – Grasses and Tussocks

NDIGENOUS TO PROVIDENCE (Grown at nursery/within	Bayside)		Uses/traits key			Habitat Key											
NDIGENOUS (Grown Outside Bayside)	Additional Species		R - Robust and	Hardy		H – Heath/Wo	odland	Ri = Ripari	ian forest (in	nterface betwe	en land and river/sti	ream)		High = tolerates w	vell without damage.		
NATIVE TREES (From Australia)	Full Sun = FS		LM - Low Main	tenance		M - Moist/Clos	sed forest						complete range	Fair= can tolerate	medium levels		
EXOTIC (From outside Australia)	Part Shade=PS		S - Shade Tree			C – Coast – du	ne scrub & wo	odland		We=Wetland			acid to neutra	Moderate = tolera	ates somewhat with some effe	cts in low	levels
Additional Species	Shade = FSh		F - Feature Tre			D – Prefers dry	y, well drained	d soils & to	lerates dryn	ness once estab	lished.		acid	Low = suffers serie	ous damage to death if expose	d	
			Sh – Prefers or	tolerates full shade		W – Prefers or	tolerates moi	ist soils, w	etness, peri	odic inundatio				Unknown		Please co	ntact your local nursery or a horticultural professional for further advice.
						A – Adaptable	, growing well	l in most so	oil types							All indige	nous plants provide habitat & food for local birds, insects & animals.
GRASSES AND TUSSOCKS				EVC= Ecological Ver	getation Class					Toleranc	es						
BOTANICAL NAME	COMMON NAME	Mat. HEIGHT	Mat.SPREAD	Growth Rate	EVC	Sunlight	Wind	Salinity	Sea spray	Drought	Waterlogging	Compaction	pH Range	Flowering period	d Flower colours	Habitat	Uses/Traits
Austrostipa flavescens	Coast Spear-grass	50cm	50cm	Fast	921	FS	High	High	High	Fair	Low	Moderate	Complete	Sep-Feb.	Brown	HCD	A, R, LM,
Austrostipa mollis	Soft Spear-grass	30cm	30cm	Fast	719, 921, 3	FS	High	High	High	High	Low	High	Complete	Sep-Dec.	Green or purple/Strawed	HCD	A, R, LM, F, Habitat
Austrostipa stipoides	Prickly Spear-grass	1	1	Moderate	n/a	FS	High	High	High	Fair	Moderate	Unknown	Complete	Sep-Feb.	White	HCD	A, R, LM, F, Habitat, wildflower garden, Bird attracting
Baumea rubiainosa	Soft Twig-rush	1m	Spreading	Moderate	707	FS-PS	Moderate	Moderate	Moderate	Moderate	High	Moderate	Complete	Sep-Mar.	Reddish Brown	RiWeM	A. B. LM. F. Habitat
Caesia parviflora	Pale Grass-lily	50cm	25cm	Moderate	n/a	FS-PS	Moderate	Low	Low	Moderate	Moderate	Low	Complete	Sep-Feb.	Greenish white-Blue	HM	A. LM. Ornamental, F. Habitat
Carex pumila	Strand Sedge	80cm	80cm	Moderate	n/a	FS	High	High	High	High	Moderate	High	Complete	Apr-Jul.	vellow/brown/red glumes	CDW	A. R. LM. F. Habitat
Deveuxia auadriseta	Reed Bent-grass	15cm	40cm	Fast	719.3	FS-PS	Moderate	Low	Low	Moderate	High	Low	Complete	Sep-May.	Pale Green/Purple	RiM	A. R. LM. F. Habitat
Dianella brevicaulis	Small-flower Flax-lilly	60cm	50cm	Moderate	919	ES-PS	Moderate	Low	Low	Moderate	Low	Low	Complete	Sen-Feh	Blue-Purple	HM	A IM Ornamental E Habitat
Dianella laevis	Pale Flax-lily	60cm	50cm	Moderate	n/a	ES-PS	Moderate	Low	Fair	Fair	Fair	Low	Acid to Neutral	Aug-lan	Blue and Yellow	HM	A IM Ornamental F Habitat
Dianella longifolia	Arching Elay-lily	1.2	1m	Moderate	n/a	ES-DS	Moderate	Low	Fair	Fair	Eair	Low	Complete	Aug-Jan	Plue to Violet	HM	A IM Organeetal E Habitat
Dianella revoluta	Plack-anthor Flax-lily	50cm	coreading	Eact	710.2	ES-DS	Eair	Moderate	Moderate	Fair	Eair	Eair	Acid	Sep-Dec	Blue or Burple	HM	
Dichelachne crinita	Long-bair Plume-grass	20cm	20cm	Moderate	n/2	ES-DS	High	Fair	Fair	Fair	Moderate	Low	Complete	Oct-Dec.	Green to Rurple	HM	A IM Chantertai, I, habitat
Distichlis distichanhulla	Australian Salt-grass	10cm	10cm	Slow	n/a	ES	High	High	High	Fair	High	High	Complete	Sep-Nov	Green growth	CDW	A, R. IM, F. interesting foliage. Bloom in response to rain
Francostic hrownii	Common Louis grass	2000	20cm	Fact	n/a	EC DC	High	Low	Mederate	Fair	Fair	Low	Complete	Sep-Nov.	Green growth	LINA	A IM C Did otterting to tage, block metapolise to tam
icipia podosa	Knobby Club-sedge	20Cm	200m	Moderate	010	F3-F3	High	High	High	Fair	High	High	Complete	Sep-Apr.	Brown	Pi\/oM	A, LW, F, Bhu attracting, turi, groundcover, can nower most of year
Cabria radula	Thatch Saw codgo	3	1.5	Clow	710 903 3	P5 F5	Madarata	Low	Modorato	Fdil	High	High	Acid to Neutral	Sep-Feb.	Brown to Black	MINUT	A, R, LW, F, Habitat, pond, can nower throughout year
Cabria ciboriana	Pod fruit Sow codro	1 5	1.5	Madarata	/15, 652, 5	F3-F3	High	Low	Moderate	Moderate	High	High	Acid to Neutral	Sep.Feb.	Valley, Doop Rod	IVIR.I MADI	A, R, LIVI, F, Habitat
Junniu siberiuliu	Tassal Bana such	1.3	1.5	Moderate	802	F311=F3	Madarata	Low	Wouerate	Moderate	High	High	Complete	Sep.rep.	Poddich Brown	IVIR.I MADI	A, D, LW, F, Habitat
hypolaena jastigiata	Tassel Kope-rusii	Jucin	1.5	Moderate	092	F3-F3	Woderate	LOW	LOW	wouerate	nigii	LOW	Complete	Aug-Dec.	Reduisir Brown	IVIRI	A, n, Livi, r, nabital, Cali nower most of year
uncus pailiaus	Rush	1	SUCM	woderate	n/a	F5-P5	High	LOW	Fair	Fair	High	Fair	Acid to Neutral	Oct-Jan.	Green	E	A, R, LM, F, Habitat, bird attracting, pond, howers most of year
achnagrostis billardierei	Coast Blown-grass	80cm	20cm	Moderate	n/a	FS-PS	Moderate	Low	Low	Moderate	High	Low	Complete	Sep-Nov.	Green/Purple Spikelets	MRi	A, R, LM, F, Ground cover, turf
epidosperma concavum	Sandhill Sword-sedge	60cm	2	Moderate	719, 892, 921, 3	PS-FS	High	High	High	Moderate	High	Fair	Complete	Sep-Feb.	Yellow	C,HRi,We	e A, R., LM, R, Groundcover
epidosperma laterale	Variable Sword-sedge	1.5	2	moderate	719, 3	FS-PS	Moderate	Low	Low	Moderate	High	Low	Complete	Sep-Feb.	Red to grey/brown	MRi	A, R, LM, F, Frog Habitat
omandra filiformis	Wattle Mat-rush	50cm	30cm	Slow	719, 3	FS-FSh	High	Moderate	Fair	Fair	High	Fair	Acid to Neutral	Oct-Nov.	Yellow	HD	A, LM, Ornamental, F, Habitat, FSh
omandra longifolia	Spiny-headed Mat-rush	1	1	Moderate	719, 707, 3	FS-PS	Moderate	Moderate	Fair	Fair	High	High	Complete	Aug-Feb.	Yellow, Purple centre	MRi	A, R, LM, F, Habitat, ground cover, edge.
omandra multiflora	Many-flowered Mat-rush	30cm	30cm	Moderate	n/a	FS	Moderate	Low	Low	Moderate	Low	Low	Complete	Jun-Nov, Jan.	Creamy Yellow	HM	A, LM, Ornamental, F, Habitat, Erosion control
Microlaena stipoides var stipoides	Weeping Grass	30cm	50cm	Moderate-Fast	719, 3	PS-FS	High	High	Moderate	Moderate	Moderate	Moderate	Acid to Neutral	Oct-Dec.	Green growth	HC	A, R, LM, Turf/lawn or groundcover
Patersonia occidentalis	Long Purple-flag	40cm	40cm	Moderate	n/a	FS	Fair	Fair	Fair	Moderate	High	Moderate	Acid	Sep-Dec.	Purple	HDW	LM, Wildlife attracting, Wildflower, Attractive foliage,
Poa labillardierei	Common Tussock-grass	50cm	50cm	Moderate	n/a	PS-FS	High	Fair	Moderate	Low	High	High	Acid to Neutral	Oct-Dec.	Golden	HC	A, R, LM, Bird attracting, Attractive, Ornamental, groundcover, erosion control
Poa poiformis	Coast or Blue Tussock-grass	50cm	50cm	Moderate-Fast	919	FS-PS	High	Fair	High	Fair	Moderate	High	Complete	Dec.	Golden	HC	A, R, LM, Bird attracting, Attractive, Ornamental, groundcover, erosion contro
Poa sieberana	Tussock-grass	30cm	30cm	Moderate-Fast	719, 3	FS-PS	High	Moderate	Moderate	High	Moderate	Moderate	Complete	Oct-Mar.	Green or Purplish	HD	R, A, Ornamental, border plant, Bird/butterfly attracting
Rytidosperma caespitosum (syn.Austrodanthonia caespitosa)	Common Wallaby-grass	40cm	40cm	Moderate-Fast	n/a	FS-PS	High	Moderate	Moderate	High	Moderate	Moderate	Complete	Oct-Dec.	White	HC	A, R, LM, Rockeries, Bird-attracting, lawn alternative
Rytidosperma geniculatum (syn.Austrodanthonia geniculata)	Kneed Wallaby-grass	15cm	15cm	Slow	921	FS-PS	High	Moderate	Fair	High	Fair	Moderate	Complete	Oct-Dec.	White	HCD	R, LM, Ornamental, Rock planting, Lawn grass, bird attracting
Rytidosperma racemosum	Clustered Wallaby-grass	20cm	20cm	Moderate-Fast	n/a	FS-PS	High	Moderate	Moderate	High	Moderate	High	Complete	Oct-Dec.	White	HCDW	A, R, LM, Feature, Revegetation, Lawn alternative, thrives in poor soil, rockeries
Rytidosperma setaceum	Bristly Wallaby-grass	60cm	40cm	Moderate	n/a	FS-PS	High	Moderate	Fair	High	Fair	Moderate	Complete	Oct-Dec.	White	HCDW	A, R, LM, Feature, Revegetation, Lawn alternative, thrives in poor soil, rockeries
Schoenus brevifolius	Zig-zag Bog-sedge	90cm	30cm	Moderate	892	FS-PS	Moderate	Moderate	Moderate	Low	High	Low	Complete	Sep-Feb.	Red-brown	WeMW	Shiny dark red-brown foliage, ornamental, bird attracting,
pinifex sericeus	Hairy Spinifex	30cm	Spreading	Moderate	n/a	FS	High	High	High	High	Moderate	Low	Complete	Nov-Dec.	Yellow and Brown	CDW	R, LM, Bush, Groundcover
porobolus virginicus	Salt or Sand Couch	10cm	Spreading	Moderate	n/a	FS	High	Fair	Fair	High	High	Low	Complete	Dec-May.	Green-purple	CWeW	A, LM, coastal and low dune stabilizer
Tetrarrhena iuncea	Forest wire-grass	Climber	4m	Moderate-Fast	719.3	PS-FS	Moderate	Low	Low	High	Moderate	Low	Complete	Nov-Apr.	Purplish	WHD	A. Habitat. Climber, High management. Wombat attracting
Themeda triandra	Kangaroo Grass	50cm	50cm	Moderate	719, 3	FS-PS	High	Moderate	Fair	Moderate	Fair	Fair	Complete	Sep-Dec.	Purple-Red	HMW	A, R, LM, Accenting, wildflower
Thelionema caespitosum	Tufted Blue Lily	20cm	1.3m	Moderate	n/a	FS-PS	Moderate	Low	Fair	Moderate	Fair	Moderate	Complete	Sep-Dec.	Blue, White and Yellow	HWeW	A, Rockeries, border planting
Tricoryne eliator	Yellow Rush-lily	30cm	50cm	Slow/Difficult	n/a	FS	Moderate	Low	Low	Low	Moderate	Low	Complete	Oct-Mar.	Bright Yellow	HDW	A. ground cover. Rockeries
Triglochin striatum	Streaked Arrowgrass	10cm	20cm	Moderate	n/a	FS-PS	Moderate	High	Fair	Moderate	High	Moderate	Complete	Aug-Apr.	Dark Green	CW	Can tolerate poor drainage well, erosion protection, semi-aquatic
(anthorrhoea minor subsp. lutea	Small Grass-tree	50cm	50cm	Slow	719, 892, 3	PS-FS	Moderate	Moderate	Moderate	Moderate	Low	Low	Complete	Dec-Feb	White/creamy-pale vellow	HCD	A. R. LM. Ornamenetal, F. Habitat, bird attracting, architectural foliage
(alfofia uvaria	Red hot poker	90cm	90cm	Moderate-Fast	n/a	ES-PS	High	Moderate	Moderate	High	Low	Low	complete	Nov-Apr.	Various	CDA	Attracts birds, butterflies, bees
iriope muscari	Lilv turf	50cm	40cm	Moderate-Fast	n/a	FS-PS	High	High	High	High	Low	Low	Acid to Neutral	Nov-Jan	Purple	RLM	Atractive foliage, can be used as lawn substitute ground cover
					/		0	0									

	/within Bayside)		Uses/traits key			Habitat K	ev										
INDIGENOUS (Grown Outside Bayside)	Additional Species		R - Robust and	Hardy		H – Heath	/Woodland		Ri = Riparia	n forest (inte	rface between	land and river/s	tream)	High = tolerates well w	ithout damage.		
NATIVE TREES (From Australia)	Full Sun = FS		LM - Low Maint	tenance		M - Moist	/Closed fore		G=Grassland				complete range	Fair= can tolerate medi	um levels		
EXOTIC (From outside Australia)	Part Shade=PS		S - Shade Tree			C – Coast	– dune scrul	& woodland					acid to neutral	Moderate = tolerates s	omewhat with some effects in	low level	s
Additional Species	Shade = FSh		F - Feature Tree	e		D – Prefe	rs dry, well o	Irained soils 8	tolerates dr	ness once e	stablished.		Acid	Low = suffers serious d	amage to death if exposed		
*PLEASE NOTE THE BELOW INFORMATION IS A G	UIDE ONLY		Sh – Prefers or	tolerates full shade		W-Prefe	rs or tole rat	es moist soils	wetness, pe	riodic inunda	ation		Alkaline to neutra	I Unknown		Please c	ontact your local nursery or a horticultural professional for further advice.
Use of any of the below species is preferred but						A – Adap	able, growii	ng well in mos	t soil types							All indig	enous plants provide habitat & food for local birds, insects & animals.
GROUND COVERS AND WILDFLOWERS AND CLIN	IBERS			EVC= Ecological Vege	tation Class					Toleran	ces						
BOTANICAL NAME	COMMON NAME	Mat. HEIGHT	Mat. SPREAD	Growth Rate	EVC	Sunlight	Wind	Salinity	Sea spray	Drought	Waterlogging	Compaction	pH Range	Flowering period	Flower colours	Habitat	Uses/Traits
Acaena novae+RC:R[52]C-zelandiae	Bidgee-widgee	Prostrate	1m	Moderate	n/a	FSh-FS	High	High	High	Fair	High	Moderate	Complete	Sep-Dec.	Brown	CShA	R, LM, Thorns, wildflower, bush
Acrotriche serrulata	Honey Pots	30cm	1m	Moderate	719, 3	PS-FS	Moderate	Moderate	Moderate	High	Low	Moderate	Complete	May-Oct.	Greenish	HD	Fruiting, Habitat, Mixed bed use, Rockeries, Bird attracting, fragrant
Actites megalocarpa	Dune Thistle	60cm	60cm	Moderate to Fast	n/a	FS	High	High	High	Moderate	Low	Moderate	Complete	Sep-Jun.	Yellow/Pale Purple	CD	R, Coastal garden, habitat
Amperea xiphoclada var. xiphoclada	Broom Spurge	40cm	40cm	Moderate	719, 892, 3	FS	Moderate	Low	Low	High	Low	Low	acid to neutral	Sep-Feb.	Cream and brown	HMD	Rockeries and underplanting, mass planting, hedge feature, unique leaves
Apium prostratum ssp prostratum	Sea Celery	20cm	50cm	Moderate to fast	n/a	PS-FS	Fair	High	High	High	Low	Moderate	Complete	Oct-Apr	White	CW	Attractive container, ferny foliage, Cultural, habitat, native animal attracting
Arthropodium strictum	Chocolate Lily	30cm	30cm	Slow to Moderate	n/a	PS-FS	Moderate	Moderate	Moderate	Moderate	Fair	Moderate	Acid	Sep-Dec.	Purple	HA	Wildflower, fragrant, container plant, decidious, mass planting aesthetic
Astroloma humifusum	Cranberry Heath	50cm	1.5m	Slow	719, 3	PS-FS	Moderate	Fair	Fair	High	Moderate	Moderate	Acid	Apr-Sep.	Red	HD	Bird attracting, winter foliage, container plant, native bush garden
Bossiaea prostrata	Creeping Bossiaea	10cm	50cm	Slow to Moderate	719	PS-FS	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Alkaline to neutral	Sep-Dec.	Yellow/Red-brown	HD	Weed suppression, erosion control, ornamental, embankments, rockeries.
Brachycome parvula	Coast Daisy	20cm	20cm	Moderate to Fast	n/a	PS-FS	High	High	High	High	Moderate	Unknown	Complete	Sep-Dec.	Purple	CW	R, LM, Interesting foliage
Burchardia umbellata	Milkmaids	30cm	10cm	Slow to moderate	n/a	PS-FS	Moderate	Unknown	Unknown	Fair	Moderate	Unknown	Acid	Sep-Nov.	White	HDW	Decidious, Wildflower and bushgarden, container planting
Carpobrotus rossii	Karkalla	10cm	1m	Moderate to Fast	921	PS-FS	High	High	High	High	Moderate	Unknown	Complete	Sep-Dec.	Purple	CD	R, LM, interesting foliage
Centella cordifolia (S)	Centella	Prostrate	2m	Moderate	707	PS-FS	Moderate	Moderate	Moderate	Low	High	Unknown	Complete	Aug-Dec.	White/pink	C,Ri,W,₽	A Pond, Ornamental, wetland, bushy
Chamaescilla corymbosa	Blue Stars	10cm	10cm	Moderate	n/a	PS-FS	Moderate	Moderate	Moderate	Fair	Fair	Unknown	Complete	Aug-Nov.	Blue	HW	Wildflower/Bush Garden, container planting
Chrysocephalum apiculatum	Common Everlasting	20cm	50cm	Moderate	n/a	FS	High	High	High	High	Low	Fair	Complete	Sep-Dec.	Yellow	HD	Silver foliage, Wildflower/bushgarden, container planting
Coronidium scorpiodies	Button Everlasting	30cm	30cm	Moderate	n/a	PS-FS	Moderate	Low	Moderate	High	Low	Low	Complete	Sep-Dec.	Pale/Lemon yellow	HD	Rockeries, Attracts pollinators, Resilient planting
Dichondra repens	Kidney-weed	Prostrate	indefinite	Moderate to Fast	919, 719, 921, 3	FSh-FS	Fair	Moderate	Moderate	Low	Fair	Unknown	Complete	Sep-Dec.	White/Pale yellow/Green	HCA	R, LM, Interesting foliage, Bush garden, container planting
Disphyma crassifolium subsp. Clavellatum	Rounded Noon-flower	Prostrate	1m	Moderate	919	FS	High	High	High	High	Moderate	Unknown	Complete	Oct-Dec.	Pink	CA	R, LM, Interesting foliafe, bush garden
Drosera whittakeri subsp. Aberrans	Scented Sundew	20cm	20cm	Moderate	719, 3	PS	Moderate	Moderate	Moderate	Moderate	Moderate	Unknown	Acid	Jul-Oct.	White	HM	Perennial, decidious, wildflower/bushgarden, container, fragrant, carnivorous
Drosera peltata subsp. Auriculata	Tall Sundew	80cm	20cm	Slow to Moderate	719, 892, 3	PS-FS	Fair	Fair	Fair	Fair	High	Unknown	Acid	Aug-Dec.	Pink and white	HWG	bushgarden, container planting, carniverous
Einadia nutans	Nodding Saltbush	20cm	1m	Moderate to Fast	n/a	PS-FS	High	High	High	High	Fair	Fair	Complete	Sep-Dec.	White	HCDA	R, LM, Colourful fruit
Enchylaena tomentosa	Ruby Saltbush, Barrier Saltbush	Prostrate	1m	Moderate	n/a	PS-FS	High	High	High	High	Fair	Fair	Complete	May-Sep	Red with pink fruit	CD	R, LM, Bird attracting, bush garden
Epilobium billardierianum	Variable Willow-herb	1m	70cm	Moderate	707	PS-FS	Moderate	Moderate	Moderate	Low	Fair	Unknown	Complete	Sep-Feb.	Purple/pink	RiW	Rockeries, watercourses, damp area planting
Frankenia pauciflora	Southern Sea-heath	10cm	50cm	Moderate	n/a	FS	Fair	High	High	High	Fair	Unknown	Alkaline to neutral	Jun-Oct.	Pink	CD	interesting foliage, shrubbing, hedging, container planting, bush garden
Geranium solanderi	Austral Cranesbill	20cm	30cm	Moderate to Fast	719, 3	PS	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Complete	Aug-Dec.	Pale pink/white yellow	HWA	R, Rockeries, pot plant, can grow quickly and spread in always wet soil
Gonocarpus humilis	Shade Raspwort	50cm	70cm	Moderate	892	PS	Moderate	Low	Low	Moderate	High	Moderate	Unknown	Oct-Dec.	Yellow-greeen	CHMW	Perennial herb, prostrate and sprawling
Gonocarpus micranthus	Creeping Raspwort	Prostrate	50cm	Moderate	n/a	PS-FS	Moderate	Low	Low	Moderate	High	Moderate	Unknown	Dec-Feb,	Red	W	Prostrate, ascending or erect, many branched
Gonocarpus tetragynus	Poverty Raspwort	20cm	30cm	Moderate	3	PS-FS	Moderate	Low	Low	Moderate	Moderate	Moderate	Unknown	Dec-Feb,	Reddish-pink	HA	Wirey, erect perennial herb. Good understorey below established trees
Goodenia hummilis	Swamp Goodenia	10cm	1m	Moderate	919, 707	PS-FS	Moderate	Low	Low	Moderate	High	Moderate	Unknown	Nov-Mar.	Yellow	W	dainty, little herb, good for moist sunny locations, eg besides pools
Goodenia geniculata	Bent Goodenia	10cm	50cm	Moderate	n/a	PS-FS	Moderate	Moderate	Low	Moderate	Moderate	Moderate	Alkaline to neutral	Sep-Jan.	Yellow	HA	Can be planted as colourful foreground for natives, beds, weed suppressing
Goodenia radicans	Shiny Swamp-mat	10cm	50cm	Moderate	n/a	PS-FS	High	High	High	Low	High	Unknown	Complete	Mar-Dec.	White	CW	Ornamental pond, bush garden
Gratiola pubescens	Glandular Brooklime	20cm	20cm	Moderate	707	PS	Moderate	Low	Low	Moderate	High	Moderate	Unknown	Oct-mar.	pale pink with yellow	RiW	Ornamental pond edges and rockeries, useful in waterlogged environments
Haloragis brownii (N)	Swamp Raspwort	50cm	50cm	Moderate	919, 921	PS-FS	Moderate	Low	Low	Moderate	High	Moderate	Unknown	Oct-Feb.	Reddish Brown	CRiW	watercourse edging, damp locations
Hibbertia acicularis	Prickly Guinea-flower	30cm	50cm	Moderate	n/a	PS-FS	Moderate	Low	Low	Moderate	Moderate	Moderate	Unknown	Sep-Dec.	Bright yellow	HD	Attractive planting for open soils, cottage gardens, and rockeries
Hydrocotyle laxitlora	Stinking Pennovort		1.200	Moderate to Fast	710.2	DC LC	Eair	Moderate	Modorato	Moderate	Fair	Unknown	Alkaline to neutral	Oct-Dec.	Green		Wildtlower/bush garden, ornamental nond
1	Summing remny wort	40cm	1-210	Moderate to rust	115, 5	PG 55			Woderate		10.1		A 17.1	0.1.11.	81	110/00	
Isotoma fluviatilis	Swamp Isotoma	Prostrate	1m	Moderate	n/a	PS-FS	Moderate	Low	Low	Low	High	Unknown	Acid	Oct-Nov.	Blue	W	Ornamental pond, wildflower/bush garden, allergenic
Isotoma fluviatilis Kennedia prostrata	Swamp Isotoma Running Postman	Prostrate Prostrate	1m 1m 20cm	Moderate Moderate Moderate	n/a n/a	PS-FS PS-FS	Moderate High	Low Fair	Low Fair Moderate	Low High	High Moderate	Unknown Unknown	Acid Complete	Oct-Nov. Apr-Dec.	Blue Red	W HCD	Ornamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden
Isotoma fluviatilis Kennedia prostrata Lachnagrostis billardierei	Swamp Isotoma Running Postman Coast Blown-grass	Prostrate Prostrate 50cm	1m 1m 20cm 20cm	Moderate Moderate Moderate Moderate	n/a n/a 919	PS-FS PS-FS FS FSb-FS	Moderate High Moderate	Low Fair Moderate	Low Fair Moderate	Low High Moderate	High Moderate Moderate	Unknown Unknown Moderate	Acid Complete Unknown	Oct-Nov. Apr-Dec. Sep-Dec. Sen-Feb	Blue Red Straw yellow Blue	W HCD CW	Ornamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Coastal garden, erosion control, visual interest, tufted, adds texture Great scruwdrouer ouer have acht, container, rolating, frost tolerant
Isotoma fluviatilis Kennedia prostrata Lachnagrostis billardierei Lagenophora stipitata Isomannia orientalis	Swamp Isotoma Running Postman Coast Blown-grass Common Bottle-daisy Dwarf Wire Lily	Prostrate Prostrate 50cm 5cm	1m 1m 20cm 20cm 10cm	Moderate Moderate Moderate Moderate moderate	n/a n/a 919 n/a n/a	PS-FS PS-FS FS FSh-FS PS-FS	Moderate High Moderate Moderate	Low Fair Moderate Low	Low Fair Moderate Low	Low High Moderate Moderate	High Moderate Moderate Moderate	Unknown Unknown Moderate Moderate	Acid Complete Unknown Unknown Unknown	Oct-Nov. Apr-Dec. Sep-Dec. Sep-Feb. Sep-Dec	Blue Red Straw yellow Blue Red, Brown and White	W HCD CW HCA HD	Ornamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Coastal garden, rosion control, visual interest, tufted, adds texture Great groundcover over bare earth, container planting, frost tolerant Border for derideralet memant reserves.
Isotoma fluviatils Kennedia prostrata Lachnagrostis billardkreei Lagenophora stipitata Laxmannia orientalis Labelia anceas	Swamp i Sotoma Running Postman Coast Blown-grass Common Bottle-daisy Dwarf Wire Lily Aneled Lobelia	Prostrate Prostrate 50cm 5cm 5cm Prostrate	1m 1m 20cm 20cm 10cm	Moderate Moderate Moderate Moderate moderate Moderate	n/a n/a 919 n/a n/a 919.921	PS-FS PS-FS FS FSh-FS PS-FS PS-FS	Moderate High Moderate Moderate Moderate	Low Fair Moderate Low Low Moderate	Low Fair Moderate Low Low Moderate	Low High Moderate Moderate Moderate Moderate	High Moderate Moderate Moderate Moderate	Unknown Unknown Moderate Moderate Moderate Unknown	Acid Complete Unknown Unknown acid to neutral	Oct-Nov. Apr-Dec. Sep-Dec. Sep-Feb. Sep-Dec. Mar-Dec.	Blue Red Straw yellow Blue Red, Brown and White Blue. White	W HCD CW HCA HD	Ornamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Coastal garden, erosion control, visual interest, tufted, adds texture Great groundcover over bare earth, container planting, frost tolerant Border for dedicated remnant reserves Ornamental gond, wetland, bush tarden, allerzenic
Isotoma fluviatilis Kennedia prostrata Lachnagrostis billardierei Lagenophoro stipitata Laxmannia orientalis Lobelia anceps Lobelia ancipides	Swamp Isotoma Running Postman Coast Blown-grass Common Bottle-daisy Dwarf Wire Lily Angled Lobelia Poison Lobelia	40cm Prostrate Prostrate 50cm 5cm Prostrate Prostrate	122m 1m 1m 20cm 20cm 10cm 50cm	Moderate Moderate Moderate Moderate Moderate Moderate	n/a n/a 919 n/a 919,921 n/a	PS-FS PS-FS FS FSh-FS PS-FS PS-FS PS-Fsh	Moderate High Moderate Moderate Moderate High	Low Fair Moderate Low Low Moderate	Low Fair Moderate Low Low Moderate	Low High Moderate Moderate Moderate Moderate Low	High Moderate Moderate Moderate Moderate High	Unknown Unknown Moderate Moderate Unknown Moderate	Acid Complete Unknown Unknown acid to neutral acid to neutral	Oct-Nov. Apr-Dec. Sep-Dec. Sep-Feb. Sep-Dec. Mar-Dec. Oct-May.	Blue Red Straw yellow Blue Red, Brown and White Blue, White Blue-Illac and white	HCD CW HCA HD HW	Ornamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Casatig arden, erosion control, visual interest, tufted, adds texture Great groundcover over bare earth, container planting, frost tolerant Border for dedicated remnant reserves Ornamental pond, wetland, bush garden, allergenic Toxic, Excellent coundcover for box. Leful in ferencies when not too dark
Istoma fluviatilis Kenneda prostrata Lachnagorsts billiordierei Lagenophora stipilata Laxmannia orientalis Labelia ancegs Labelia protioides Opercularia ovata	Swamp is convince Running Postman Coast Blown-grass Common Bottle-daisy Dwarf Wire Lily Angled Lobelia Poison Lobelia Broad Stinkwed	AUCM Prostrate Prostrate 50cm 5cm Prostrate Prostrate 10cm	192m 1m 20cm 20cm 10cm 50cm 50cm 20cm	Moderate Moderate Moderate Moderate Moderate Moderate Moderate	n/a n/a 919 n/a 919, 921 n/a n/a	PS-FS PS-FS FS FSh-FS PS-FS PS-FS PS-Fsh PS-Fsh	Moderate High Moderate Moderate Moderate High High	Low Fair Moderate Low Low Moderate Low	Low Fair Moderate Low Low Moderate Low	Low High Moderate Moderate Moderate Low	High Moderate Moderate Moderate Moderate High High	Unknown Unknown Moderate Moderate Unknown Moderate Moderate	Acid Complete Unknown Unknown acid to neutral acid to neutral acid to neutral	Oct-Nov. Apr-Dec. Sep-Dec. Sep-Feb. Sep-Dec. Mar-Dec. Oct-May. Sep-Dec.	Blue Red Straw yellow Blue Red, Brown and White Blue, White Blue-Iilac and white Greenish	HCD CW HCA HD HW HWA	Ornamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Coastal garden, rosion control, visual interest, turbed, adds texture Great groundcover over bare earth, container planting, frost tolerant Border for dedicated remnant reserves Ornamental pond, wetfand, bush garden, allergenic Toxic. Excellent groundcover for bog, Useful in fermeries when not too dark Toxic. Excellent groundcover for bog. Lufe lin fermeries when not too dark
Isotom flaviatik Kennela prostrata Lachnagrosts billerdierei Lagenaphora stpätata Lamannin oirettalls Labella anceps Labella pratioides Opercularia varia	Summp Isotrywok Swamp Isotoma Running Postman Coast Blown-grass Common Bottle-dalsy Dwarf Wire Lify Angled Lubelia Poison Lobelia Broad Stinkweed Variable Stinkweed	40cm Prostrate S0cm Scm Prostrate Prostrate Prostrate 10cm 25cm	192m 1m 20cm 20cm 10cm 50cm 50cm 20cm 30cm	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	n/a n/a 919 n/a n/a 919, 921 n/a n/a 719, 3	PS-FS PS-FS FS FSh-FS PS-FS PS-FSh PS-Fsh PS-Fsh	Moderate High Moderate Moderate Moderate High High	Low Fair Moderate Low Low Moderate Low Low	Low Fair Moderate Low Low Low Low	Low High Moderate Moderate Moderate Low Low	High Moderate Moderate Moderate Moderate High High High	Unknown Unknown Moderate Moderate Unknown Moderate Moderate	Acid Complete Unknown Unknown acid to neutral acid to neutral acid to neutral acid to neutral	Oct-Nov. Apr-Dec. Sep-Dec. Sep-Peb. Sep-Dec. Mar-Dec. Oct-May. Sep-Dec. Jun-Mar.	Blue Red Straw yellow Blue Red, Brown and White Blue, White Blue-lilac and white Greenish Green or Purple	HDW W HCD CW HCA HD HW HW HWA	Omamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Coastal garden, erosion control, visual interest, turbes, adds texture Great groundcover over bare earth, container planting, frost tolerant Border for decluted remnant reserves Omamental pond, wetland, bush garden, allergenic Toxic. Excellent groundcover for bog, Useful in ferneries when not too dark Toxic. Excellent groundcover for bog, Useful in ferneries when not too dark Toxic. Excellent mounded
Astorna fluviatilis Kennedia prostrata Lachnagrasis billiordirerei Lagenophara stipitata Labelia anceps Labelia anceps Labelia anceps Labelia purtiodes Operculario avata Operculario avata	Swamp Isotoma Running Postman Costa Blown-grass Common Bottle-daisy Dwarf Wire Lily Angled Lobelia Poison Lobelia Broad Stinkweed Variable Stinkweed Running Marsh flower	40cm Prostrate Prostrate S0cm Scm Prostrate Prostrate 10cm 25cm 1m	19200 1m 20cm 20cm 10cm 50cm 50cm 20cm 30cm 1m	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate to Fast	n/a n/a 919 n/a n/a 919, 921 n/a n/a 719, 3 707	PS-FS PS-FS FS PS-FS PS-FS PS-FS PS-Fsh PS-Fsh PS-Fsh	Moderate High Moderate Moderate Moderate High High High High	Low Fair Moderate Low Moderate Low Low Low	Low Fair Moderate Low Moderate Low Low Low	Low High Moderate Moderate Moderate Low Low Low	High Moderate Moderate Moderate Moderate High High High High	Unknown Unknown Moderate Moderate Unknown Moderate Moderate Moderate Unknown	Acid Complete Unknown Unknown acid to neutral acid to neutral acid to neutral acid to neutral Acid	Oct-Nov. Apr-Dec. Sep-Feb. Sep-Feb. Sep-Dec. Mar-Dec. Oct-May. Sep-Dec. Jun-Mar. Mar-Dec.	Blue Red Straw yellow Blue Red, Brown and White Blue-Iliaz and white Greenish Greenish Green or Purple Yellow	HDW W HCD CW HCA HD HW HW HWA HWA RiW	Ornamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Coasti garden, rosion control, visual interest, turbed, adds texture Great groundcover over bare earth, container planting, frost tolerant Border for dedicated remnant reserves Ornamental pond, wetland, bush garden, allergenic Toxic. Excellent groundcover for bog, Useful in fermeries when not too dark Toxic. Excellent groundcover for bog, Useful in fermeries when not too dark Toxic. Excellent, groundcover for bog, Useful in fermeries when not too dark Toxic. Explesant smell when cushed Ornamental good, wetland, bush garden, allergenic
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Isotam (Puviatilis Kennelia portata Lapenophara stipilata Lapenophara stipilata Labela anceps Lobela anceps Lobela anceps Lobela partoides Operculario vana Operculario vana Onduffa cenfjormis (syn Villarsia reniformis) Pelargonium antoirum Pelargonium indorum	Swamp Isotoma Running Postman Common Bottle-daisy Dwarf Wire Lily Angled Lobelia Poison Lobelia Broad Stinkweed Variable Stinkweed Running Marsh flower Austral Stork-bill Kopata Common Rice-flower	40cm Prostrate Prostrate Scm Scm Prostrate Prostrate 10cm 25cm 1m S0cm 30cm	12111 1m 1m 20cm 20cm 50cm 50cm 20cm 30cm 1m 50cm 30cm 40cm	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate to Fast Moderate to Fast Moderate to Fast Moderate Moderate Moderate	n/a n/a n/a 919 n/a 919,921 n/a n/a 719,3 707 n/a n/a n/a n/a	PS-FS PS-FS FSh-FS PS-FS PS-FS PS-FSh PS-FSh PS-FSh PS-FS PS-FS PS-FS PS-FS PS-FS	Moderate High Moderate Moderate Moderate High High High Moderate Moderate Fair	Low Fair Moderate Low Moderate Low Low Low Moderate Low Fair	Low Fair Moderate Low Moderate Low Low Low Low Low Moderate Low Fair	Low High Moderate Moderate Low Low Low Low Fair Moderate Fair	High Moderate Moderate Moderate Moderate High High High High Low Low	Unknown Unknown Moderate Moderate Unknown Moderate Unknown Unknown Low Unknown	Acid Complete Unknown Unknown acid to neutral acid to neutral	Oct-Nov. Apr-Dec. Sep-Dec. Sep-Dec. Mar-Dec. Oct-May. Sep-Dec. Jun-Mar. Mar-Dec. Mar-Dec. Dec-Feb. Sep-Jan.	Blue Red Straw yellow Blue Red, Brown and White Blue, White Blue, White Blue-Illac and white Green ish Green or Purple Yellow Pink White/pink	W HCD CW HCA HD HW HWA HWA RIW CA HA HA	Omamental pond, wildflower/bush garden, allergenic Interesting foliage, bird attracting, Wildflower/Bush Garden Coastal garden, erosion control, visual interest, tufted, adds texture Great groundcover over bare earth, container planting, frost tolerant Border for declated remnant reserves Omamental pond, wetfand, bush garden, allergenic Toxic: Excellent groundcover for bog, Useful in fermeries when not too dark Toxic: Excellent groundcover for bog, Useful in fermeries when not too dark Toxic: Excellent smell when cushed Ormamental pond, wetfand, bush garden, allergenic Edging, Wildflower/Bush Sarden, container planting Open border plant, needs replaceing annually, regenerates via fire Danthy. Wildflower/Bush Sarden, container, plantens, heavy crunine
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Species Palette 8 – Climbers

INDIGENOUS TO PROVIDENCE (Grown at nursery/within E Additional Species Uses/traits key						Habitat Key											
INDIGENOUS (Grown Outside Bayside)			R - Robust and Hardy				H – Heath/Woodlanc Ri = Riparian forest (interface between land and river/stream)						High = tolerates well without damage.				
NATIVE TREES (From Australia)	Full Sun = FS LM - Low Maintenance				M - Moist/Closed forest						complete range Fair∝ can tolerate medium levels						
EXOTIC (From outside Australia)	Part Shade=PS S - Shade Tree				C – Coast – dune scrub & woodland						add to neutral Moderate = tolerates somewhat with some effects in low levels						
Additional Species	Shade = FSh F - Feature Tree				D – Prefers dry, well drained soils & tolerates dryness once established.						acid Low = suffers serious damage to death if exposed						
*PLEASE NOTE THE BELOW INFORMATION IS A GUIDE ONLY			Sh – Prefers or tolerates full shade				W – Prefers or tolerates moist soils, wetness, periodic inundation						Unknown			Please contact your local nursery or a horticultural professional for further advice.	
Use of any of the below species is preferred but not limited to these species					A – Adap	A – Adaptable, growing well in most soil types									All indigenous plants provide habitat & food for local birds, insects & animals.		
CLIMBERS			EVC= Ecological Vege		Tolerances												
BOTANICAL NAME	COMMON NAME	Mat. HEIGHT	Mat. SPREAD	Growth Rate	EVC	Sunlight	t Wind Salin	ity Sea spra	y Drought	Waterlogging	g Compaction	pH Range	Flowering period	Flower colours	Habita	it Uses/Traits	
Billardiera mutabilis (syn. B. scandens)	Common Appleberry	1	1	Moderate	719, 3	FS	Moderate Mode	rate Moderat	te Fair	Moderate	Unknown	Acid	Mar-Dec.	Green, White, Yellow	HD	A, Bird attracting	
Cassytha glabella (W)	Slender Dodder-laurel	Climber	indefinite	Moderate to Fast	892	FS-PS	Moderate Mode	rate Low	High	Moderate	Moderate	Unknown	Aug-Nov.	Creamy white/cream	HDMA	A Parasitic, feeding off other plants.R, climber	
Clematis microphylla var.microphylla	Small-leaved Clematis	5	5	Moderate to Fast	919, 921	PS-FS	Fair Fai	r Fair	Fair	Low	Unknown	acid to neutral	Aug-Oct.	White	HCA	Winter aesthetic, interesting follage, screening	
Comesperma volubile	Love Creeper	Climber	indefinite	Slow	719, 3	SP-FS	Moderate Mode	rate Moderat	te Moderate	Moderate	Unknown	Acid	Aug-Dec.	Blue & Purple	HCDW	/ A, Contrainer	
Galium australe	Tangled Bedsttraw	Climber	indefinite	Fast	919, 921	PS-FS	High Mode	rate High	High	Low	Moderate	Unknown	Sep-May.	White	HCD	Scrambler, trailing, groundcover	
Hardenburgia violacea	Purple Coral Pea	Climber	indefinite	Fast	n/a	PS-FS	High Mode	rate High	High	Moderate	Moderate	Unknown	Jul-Sep.	pink or white	HDG	Scrambler, Will not negatively impact plants it climbs, pruning required after flowering	
Muehlenbeckia adpressa	Climbing Lignum	Climber	indefinite	Fast	n/a	PS-FS	High Mode	rate High	High	Moderate	Moderate	Complete	Dec-Mar	Greenish white	HCDSI	h plant as groundcover, house plant, potplant, can become invasive, pruning required	
Aphanopetalum resinosum	Gum vine	Climber	3m x 3m	Fast	n/a	FSh	Low Lov	v Low	High	Moderate	Low	ld Acid-Mild Alkal	li Sep	Greenish yellow	MW	LM,Sh, attractive climber for shady positions, attracts native birds and insect	
Hardenbergia comptoniana	Native Wisteria	Climber	indefinite	Fast	n/a	PS-FS	High Mode	rate High	High	Moderate	Moderate	Unknown	Jul-Sep.	pink or white	HDG	Scrambler. Will not negatively impact plants it climbs, pruning required after flowering	
Hibbertia scandens	Golden guinea flower	Climber	indefinite	Fast	n/a	FS	High Lov	v High	High	High	Low	acid to neutral	Aug-Dec.	Yellow	CDA	R,LM, attracts solitary native bees	
Pandorea pandorana	Wonga wonga vine	Climber	indefinite	Fast	n/a	FS	Low Low	v Low	High	Low	Moderate	acid to neutral	Sep-May.	White, crea, Yellow, gold, purple	WA	LM, attracts bees and birds, vigorous climber with attractive scented flowers.	
Trachelospermum jasminoides	Chinese star jasmine	Climber	indefinite	Fast	n/a	FS-PS	Moderate Lov	v Low	Moderate	Low	Low	acid to neutral	Sep-May.	White	D.W.A	LM. Highly scented flowers. Attracts bees and butterflies.	

Glossary

Biodiversity: 'All components of the living world: the number and variety of plants, animals, and other living things (including fungi and micro-organisms) across our land, rivers, coast, and ocean. It includes the diversity of their genetic information, the habitats and ecosystems within which they live, and their connections with other life forms and the natural world'.⁷

Canopy cover is the layer formed by the branches and crowns of plants or trees. The cover can be continuous, as in primary forests, or discontinuous - with gaps as in an urban area. Canopy is defined in Living Melbourne as vegetation above three metres in height.⁸

Canopy tree: A tree which has, or at maturity is likely to have, sufficient height and canopy characteristics to make a positive contribution to local amenity, sense of place, micro climate and/or biodiversity. Minimum 8 x 4 metres.⁹

Climate change refers to a change in the state of the climate that can be identified (e.g., by using statistical tests) by changes in the mean and/or the variability of its properties and that persists for an extended period, typically decades or longer.¹⁰

Climate change adaptation is the process of adjustment to actual or expected climate and its effects.¹¹

Climate change mitigation is the human intervention to reduce the sources or enhance the sinks of greenhouse gases.¹¹

Climate Emergency refers to the catastrophic changes to the climate brought about by human activity that poses a dangerous threat to all life on the planet.¹¹

Environmentally Sustainable Development refers to development that is designed, constructed, and managed to optimise climate resilience, energy efficiency, integrated water management, indoor environment quality, the circular economy, low carbon transport and urban ecology.¹²

General Residential Zone (GRZ) is applied to land in areas where growth and housing diversity is anticipated. It is expected that the type of housing provided will evolve over time to provide more diverse forms of housing, but not at the expense of existing open garden character.¹³

https://www.planning.vic.gov.au/__data/assets/pdf_file/0011/105500/SHRP-SH1-15.a.-Tree-Logic-Rpt_Holland-Court,-Flemington.pdf

⁷ The State of Victoria Department of Environment, Land, Water and Planning, 'Protecting Victoria's Environment – Biodiversity 2037', 2017, Available at <u>https://www.environment.vic.gov.au/biodiversity/biodiversity-plan</u>

⁸ CID Bio-Science, 'Forest and Plant Canopy Analysis – Tools and Methods', 2019, Available at <u>https://cid-inc.com/blog/forest-plant-canopy-analysis-tools-methods/</u>

⁹ Bayside City Council, 'Local Law Guidelines, Neighbourhood Amenity Local Law 2021', 2021, Available at <u>https://www.bayside.vic.gov.au/sites/default/files/2022-</u>

^{05/}Neighbourhood%20Amenity%20Local%20Law%202021%20Guidelines%20-%20Final.pdf

¹⁰ Definition has been sourced from 'Bayside's Climate Emergency Action Plan 2020-2025 – Glossary', 2019, Available at

https://www.bayside.vic.gov.au/sites/default/files/sustainability_and_environment/climate_emergency_action_pla_n_v1.2_140920_for_web.pdf

¹¹ Department of Health and Human Services, 'Arboricultural Assessment Holland Court, Flemington– 3.7 Useful Life Expectancy(ULE)', 2017, available at

¹² Bayside Sustainable Building and Infrastructure Policy (updated 2021)

¹³ Victorian Planning Authority, 'Reformed Residential Zones – General Residential Zone', 2017, Available at <u>https://www.planning.vic.gov.au/ data/assets/pdf file/0023/103865/General-Residential-Zone.pdf</u>

Greenways are a form of landscape planning. They are linear open space corridors in the built or natural environment, which preserve biodiversity or other aspects of a sustainable environment, and generally engage the community in recreational use.¹⁴

Habitat: All the physical and biological things that collectively make up the place where a plant or animal lives.¹⁵

Habitat Corridor: A habitat corridor is a linear two-dimensional landscape element that differs from the surrounding vegetation, in both vegetation structure and form, and connects two or more patches, of otherwise isolated, habitat that have been connected in historical time, this is meant to function as a conduit for both plants and animals.¹⁶

Heat Vulnerability Index: The heat vulnerability index (HVI) is represented by a scale of 1 to 5 based on quintiles, with 1 representing low exposure, low sensitivity, or high adaptive capacity and 5 representing high exposure, high sensitivity or low adaptive capacity. We integrated indicators of heat vulnerability to calculate a Heat Vulnerability Index (HVI) at SA1 level. The index consists of three component layers: heat exposure, sensitivity to heat, and adaptive capability. Integration was accomplished by summing the scores from the three vulnerability components, dividing the SA1s into quintiles, and attributing SA1s with a Heat Vulnerability Rating scaled from 1 to 5.¹⁷

Neighbourhood Residential Zone (NRZ) is applied to land that has been identified as having specific neighbourhood, heritage, environmental or landscape character values that distinguish the land from other parts of the municipality or surrounding area.¹⁸

Permeability: The readiness with which a surface, whether man-made (such as a paved road) or natural (such as soil or rock) allows water, air or plant roots to penetrate or pass through.¹⁹

Residential Growth Zone (RGZ) is considered a substantial change area where medium density housing growth and diversity of housing types is encouraged for example town houses and apartments around activity centres and close to train stations.²⁰

Resilience: The capacity of individuals, institutions, businesses and systems within a city to adapt, survive and thrive no matter what kind of chronic stresses and acute shocks they experience.¹¹

SEIFA: Socio-Economic Indexes for Areas (SEIFA) measures the relative level of socio-economic disadvantage and/or advantage based on a range of Census characteristics.²¹

M. E. and M. E. Gilpin, Available at

https://www.parliament.act.gov.au/ data/assets/pdf file/0008/381077/PE 06 Environment attach.pdf ¹⁷ Department of Environment, Land, Water and Planning, Victorian Government 'Urban Vegetation, Urban Heat

Islands and Heat Vulnerability Assessment in Melbourne, 2018', Available at

¹⁴ University of New South Wales, 'The future of greenways in Sydney,' by P. Crawshaw, 2009, available at: <u>https://www.be.unsw.edu.au/sites/default/files/upload/pdf/schools_and_engagement/resources/_notes/5A2_41.p</u> <u>df</u>

¹⁵ Resilient Melbourne and The Nature Conservancy, 'Living Melbourne – Our metropolitan Urban Forest',2019, Available at <u>https://resilientmelbourne.com.au/wp-content/uploads/2019/05/LivingMelbourne_Strategy_online.pdf</u> ¹⁶ Definition as used in 'Corridors for Habitat and Biodiversity Conservation in the Act with Links to the Region' from 'The theory of wildlife corridor capability – in Nature Conservation 2: The role of corridors', 1991 by Soulé,

https://www.planning.vic.gov.au/ data/assets/pdf file/0018/440181/UHI-and-HVI2018 Report v1.pdf ¹⁸ Victorian Planning Authority, 'Using the residential zones – Planning Practice Note 91, Clause 32.09', 2019, Available at <u>https://www.planning.vic.gov.au/ data/assets/pdf file/0033/445389/PPN91-Using-the-residentialzones.pdf</u>

 ¹⁹ DELWP, 'Land for Wildlife' available at: <u>https://www.wildlife.vic.gov.au/protecting-wildlife/land-for-wildlife</u>
²⁰ Victorian Planning Authority website, 'Frequently Asked Questions – What is a Residential Growth Zone (RGZ)', 2017, Available at <u>https://vpa.vic.gov.au/fag/berwick-residential-growth-zone-rgz/</u>

²¹ Id community, 'Demographic Resources', Available at <u>https://profile.id.com.au/bayside/seifa-</u> <u>disadvantage-small-area?WebID=10</u>

Senescence is the process by which cells irreversibly stop dividing and enter a state of permanent growth arrest without undergoing cell death.²²

Significant Landscape Overlay (SLO): The Significant Landscape Overlay (SLO) is a planning overlay and tool for protecting and managing significant landscapes. Its purpose is to identify significant landscapes, and conserve and enhance their character. The SLO can require a permit to construct a building or construct or carry out works, construct a fence, and remove, destroy or lop any vegetation.²³

Significant Tree: Some trees, through age, size, and rarity of planting or association with historical events achieve a higher level of importance on private or public land. Identifies the following the categories used to define significant trees as scientific, social, historic, and aesthetic.²⁴

Tree Canopy: The uppermost trees or branches of trees in a forest, forming an almost continuous layer of foliage. The topmost layer of bioactivity in a forest setting.⁴

Urban Forest encompasses all of the Trees, Shrubs and Grasslands – and the Soil and Water that support them. An Urban Forest incorporates vegetation in streets, parks, gardens, plazas, campuses, river and creek embankments, coastal foreshores, wetlands, railway corridors, community gardens, green walls, balconies, and roofs.⁴

Urban Heat Island Effect: The phenomenon of dense urban areas having significantly warmer air and land surface temperatures than surrounding areas.⁴

Useful Life Expectancy (ULE): Assessment of useful life expectancy provides an indication of health and tree appropriateness and involves an estimate of how long a tree is likely to remain in the landscape based on species, stage of life (cycle), health, amenity, environmental services contribution, conflicts with adjacent infrastructure and risk to the community. It is not a measure of the biological life of the tree within the natural range of the species. It is more a measure of the health status and the tree's positive contribution to the urban landscape.²

Vegetation Protection Overlay (VPO): The VPO focuses on the protection of significant vegetation, including native and introduced vegetation in urban environments. The overlay can be applied to individual trees, groups of trees or areas of significant vegetation. It requires a landowner to obtain a permit to remove, destroy or lop any vegetation specified in a schedule to the overlay subject to a list of exemptions. Some of those exemptions apply to particular types of vegetation and others apply to specific situations, for example, to clear vegetation from electricity lines and to ensure emergency access.²⁵

Vulnerability: Exposure to contingencies and stress, and the difficulty in coping with them. This can apply to ecosystems, trees, people, and places.²⁶

²² CSIRO Linked Data Registry, 'Definition of Senescence', Available at <u>http://registry.it.csiro.au/def/keyword/nature/subjects/senescence</u>

²³ Victorian Planning Authority, 'DPCD South West Victoria Landscape Assessment Study – Regional Overview Report', 2013, Available at <u>https://www.planning.vic.gov.au/ data/assets/pdf_file/0023/94820/ROR-Chapter-5-Implementation-Part-2.pdf</u>

²⁴ Bayside City Council, 'Significant Tree Management Policy 2020', 2020, Available at <u>https://www.bayside.vic.gov.au/sites/default/files/trees_parks_and_beaches/significant_tree_management_policy_2020.pdf</u>

²⁵ Victorian Law Reform Commission, '4. Planning law and regulation affecting trees on private land - Vegetation Protection Overlay, Available at https://lawreform.vic.gov.au/content/introduction-34

²⁶ GreenFacts, 'Vulnerability (in ecosystems), available at: <u>https://www.greenfacts.org/glossary/tuv/vulnerability-ecosystems.htm</u>

Water Sensitive Urban Design (WSUD) is a more sustainable approach to urban planning and design to make use of stormwater and reduce the harm it causes to our natural waterways.²⁷

²⁷ Melbourne Water, 'Introduction to WSUD', available at: <u>https://www.melbournewater.com.au/building-and-works/stormwater-management/introduction-wsud</u>



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