

MINNINUP POOL DEVELOPMENT - PLANTING LISTS

The planting areas are located on Map 4 Indicative Plantings and Treatments. The planting lists will be used to select plants from for the preparation of detailed planting plans for Part D. Should any species not be available when procuring replacement plants, (due to propagation failure, planting failures etc.) these lists can be referred to for alternative species and an understanding of the desirable attributes of any substitutes.

These planting lists show the flowering times of the various plants to ensure there is year round colour/interest for visitors. The lists (without the flowering times) will be included on the detailed planting plans and a column for numbers of plants added to give quantities. Planting notes for each specific area will accompany the planting plans together with figures illustrating planting techniques.

SANDY BEACH

Area A - 'Moist' Rehabilitation area south of the western parking area which includes old access tracks into the Bedroom (Moist Habitat)– Primarily colonising species with occasional large trees as people should not be accessing these areas, so planting trees that might drop branches is not a significant risk issue.

List 1 - Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Acacia extensa</i>								x	x	x		
<i>Anigozanthus flavidus</i>	x										x	x
<i>Astartea scoparia</i>	x	x										
<i>Eucalyptus rudis</i>							x	x	x			
<i>Grevillea ripicola</i>			x	x							x	x
<i>Kunzea ericifolia</i>										x	x	
<i>Lepidosperma squamatum</i>			x	x	x	x	x	x	x	x	x	
<i>Leptospermum erubescens</i>							x	x	x	x	x	
<i>Melaleuca preissiana</i>	x	x									x	x

Area B- Scattered infill planting between the parking area and the river –These plants are to provide interest and to encourage visitors to stay on the paths.

List 2 - Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Acacia extensa</i>								x	x	x		
<i>Astartea scoparia</i>	x	x										
<i>Billardiera fusiformis</i>	x	x									x	x
<i>Conostylis aculeata</i>								x	x	x	x	
<i>Grevillea ripicola</i>			x	x							x	x
<i>Hakea lissocarpha</i>					x	x	x	x	x			
<i>Kunzea ericifolia</i>										x	x	
<i>K. recurva</i>								x	x	x	x	x
<i>Leptospermum erubescens</i>							x	x	x	x	x	
<i>Melaleuca preissiana</i>	x	x									x	x
<i>Patersonia occidentalis</i>								x	x	x	x	x
<i>Phyllanthus calycinus</i>	x					x	x	x	x	x	x	x

Area C - Rehabilitation area south of the beach (north of the rope swing) – Species list 1 is to be used for this area with no *Melaleuca preissiana* as it is a more elevated area or *Eucalyptus rudis* as visitors will be close by.

Area D – Sandy rehabilitation area north of the beach – Primarily colonising species suited to moist areas with the *Anigozanthus flavidus* , *Acacia pulchella*, *Eucalyptus rudis* and *E. patens* planted away from the boundary on the beach and road boundary so people are not close to them.

Some rushes and sedges will be used in the culvert outfall area see species with *.

List 3 - Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Acacia extensa</i>								x	x	x		
<i>A. pulchella</i>					x	x	x	x	x	x	x	x
<i>Anigozanthus flavidus</i>	x										x	x
<i>Astartea scoparia</i>	x	x										
<i>Billardiera fusiformis</i>	x	x									x	x
<i>Conostylis acculeata</i>								x	x	x	x	
<i>Eucalyptus rudis</i>							x	x	x			
<i>E. patens</i>	x	x					x	x			x	x
<i>Grevillea ripicola</i>			x	x							x	x
<i>Kunzea ericifolia</i>										x	x	
<i>K. recurva</i>								x	x	x	x	x
<i>Leptospermum erubescens</i>							x	x	x	x	x	
<i>Melaleuca preissiana</i>	x	x									x	x
* <i>Hypolaena exsulca</i> (Damp Zone)									x	x	x	x
* <i>Lepidosperma squamatum</i> (Damp Zone)			x	x	x	x	x	x	x	x	x	
* <i>Juncus kraussii subsp australiensis</i> (for deep basin = Emergent Zone)	x									x	x	x

Area E River Edge Planting – These plantings are to stabilise the foreshore long term and coir logs will be used on the river’s edge to assist the reed establishment. Plants that are known to pose some risk to visitors are to be excluded from these areas such as itchy or prickly plants or plants such as wattles that are known to cause allergies. As *Grevillea ripicola* is a priority flora for the area it will be included even though *Grevillea*’s can cause irritation, but it should not be planted on edges, only in the centre of the planting areas. Large trees will not be planted due to potential for limb drop in the future though they are expected to self seed into the areas in due course. Advanced *Melaleuca preissiana* trees will be located in the beach areas and some tube stock of the species will be included in the river edge planting areas.

The weeds in these areas are to be controlled / removed before planting including removing the Mt. Morgan Wattle *Acacia podalyrifolia* . The *Cyperus polystachyos* bunchy sedge and couch grass *Cynodon dactylon* along the foreshore can be retained to stabilise the foreshore and because removal is impractical.

List 4 Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Astartea scoparia</i>	x	x										

<i>Cyperus polystachyos</i> (existing will spread itself)	x	x		x	x	x	x					x
<i>Grevillea ripicola</i>			x	x							x	x
<i>Hypocalymma angustifolium</i>						x	x	x	x	x		
<i>Melaleuca incana</i>					x	x	x	x	x	x	x	
<i>M. preissiana</i>	x	x									x	x
<i>M. viminea</i>							x	x	x	x	x	
<i>Taxandria linearifolia</i>			x	x	x							
Rush sp. along water's edge <i>Hypolaena exsulca</i>									x	x	x	x
<i>Juncus kraussii subsp australiensis</i>	x									x	x	x

Area M – Non irrigated lawn area, 10m wide on the riverside of the paths and picnic tables. Fox tail mulga grass *Neurachne alopecuroidea*, which is native to the shire, may be suitable, alternatively a kikiyu sterile grass cultivar, such as Village Green may be suited. This grass will likely be used at the main pool. *Sporobolus virginicus* – Marine couch which is native to the south west was considered but as it is not drought tolerant there was concern about its ability to persist.

There is also the option to leave this as an area of sand if there are concerns with using the above grass species.

MINNINUP POOL

Area F - Low amenity planting in dry areas. This planting, in the entry area and under the mature jarrah trees, is to give visual interest and spatial separation while still allowing views over the plants to the river so the plants should generally grow no more than 600mm – 1m high. They will be watered the first year only (unless it's a drought year the second year and they'll get a bit more). A few advanced jarrah trees *Eucalyptus marginata* will also be planted in these areas, as in the long term these will frame rather than block views. Those noted * will need planting at 2m centres; others will be 1m centres.

List 5 Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Acacia stenoptera</i>			x	x	x	x	x	x	x	x	x	x
* <i>Allocasuarina humilis</i>					x	x	x	x	x	x	x	
<i>Anigozanthus mangleissii</i>								x	x	x	x	
<i>Conostylis aculeata</i>								x	x	x	x	
<i>Daviesia decurrens</i>						x	x	x	x			
* <i>Darwinia citriodora</i>					x	x	x	x	x	x	x	x
* <i>Grevillea ripicola</i>			x	x							x	x
<i>Hemiandra pungens</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Hibbertia hypericoides</i>				x	x	x	x	x	x	x	x	x
* <i>Hypocalymma angustifolium</i>						x	x	x	x	x		
<i>Kennedia prostrata</i>				x	x	x	x	x	x	x	x	
<i>Leucopogon sp?</i>												
<i>Leschenaultia biloba</i>							x	x	x	x	x	x

<i>Pimelia ciliata</i>								x	x	x	x	x
<i>Xanthorrhoea gracilis</i>										x	x	x
* <i>X. preissii</i>						x	x	x	x	x	x	x

Area G - Low amenity planting in dry areas. This planting is to rehabilitate redundant road and paths in the entry area so will use the same species as for Area F. However watering may be more difficult and so tube stock are generally to be used.

Area H - Dry bank plantings (vicinity of old diving board and welcome area) – These plantings are for visual interest and to stabilise the bank areas with most of these areas also being in the root zone of established trees, mostly jarrah trees. Plantings are to be low, up to 1.2 m high.

Should the concrete steps be removed some additional lateritic rocks should be installed and coir logs may be required to assist with stabilising the banks.

List 6 Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Acacia stenoptera</i>			x	x	x	x	x	x	x	x	x	x
<i>Allocasuarina humilis</i>					x	x	x	x	x	x	x	
<i>Anigozanthus mangleissii</i>								x	x	x	x	
<i>Billardiera fusiformis</i>	x	x									x	x
<i>Conostylis aculeata</i>								x	x	x	x	
<i>Daviesia decurrens</i>						x	x	x	x			
<i>Darwinia citriodora</i>					x	x	x	x	x	x	x	x
<i>Hakea lissocarpha</i>					x	x	x	x	x			
<i>Hemiandra pungens</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Hypocalymma angustifolium</i>						x	x	x	x	x		
<i>Kennedia prostrata</i>				x	x	x	x	x	x	x	x	
<i>Leptospermum erubescens</i>							x	x	x	x	x	

Area I – Occasional Drainage Line

This is currently mown grass but sedges and rushes are proposed for the outfall area in the vicinity of the stepping stones, which are to be installed near the river's edge.

List 7 Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rushes etc. (@8 per m2)												
<i>Ficinia nodosa</i>	x									x	x	x
<i>Juncus kraussii subsp australiensis</i>	x									x	x	x
<i>Juncus pallidus</i>										x	x	x
<i>Lepidosperma longitudinale</i>					x	x		x	x	x		

Area J – Existing Drainage Line

The edges of the drainage line will have the grass sprayed out (Total width 6m including existing rushes along water course so 1 – 1.5m wide strips of grass to be sprayed) and a strip of medium

shrubs and an occasional advanced tree planted adjacent to the rushes to reinforce the drainage line and create spaces and interest in the park.

List 8 Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Astartea scoparia</i>	x	x										
<i>Callistemon glaucus</i>									x	x	x	x
<i>Melaleuca incana</i>					x	x	x	x	x	x	x	
<i>M. preissiana</i>	x	x									x	x
<i>M. viminea</i>							x	x	x	x	x	
<i>Taxandria linearifolia</i>			x	x	x							

Area K Foreshore – Tall shrubs and rushes / sedges, combined with coir logs, (see details in section 3.4.2 for the range of river edge treatments, with construction details in Part D) will be used to stabilise the river's edge between the hardened access points. Fencing will protect these areas until they are established and tube stock used. The sword grass *Lepidosperma* sp. is already established along the foreshore at the mouth of stream from the wetland. Although sword grasses have the potential to cut hands if grabbed, these sedges d have broader, flat leaves but they are not sharp edged and as there are no reports of problems to date, the sedge will be used along the emergent zone as it seems very successful. The taller *Juncus pallidus* will not be used as it will totally block views and specific views, such as those from nearby picnic tables, will be maintained by the use of lower plants to 1m combined with taller trunked trees such as *Melaleuca preissiana* that will frame views. Weeds (such as *Paspalum urvillei*) and open patches of existing introduced grasses such as *Cynadon dactylon* are to be sprayed out without impacting existing native vegetation. It is acknowledged that some creeping grasses will remain but if weed free areas/patches can be created short term this should allow new plantings to establish and ultimately smother out the weeds.

List 9 Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Shrubs												
<i>Astartea scoparia</i>	x	x										
<i>Hypocalymma angustifolium</i>						x	x	x	x	x		
<i>Kunzea recurva</i>								x	x	x	x	x
<i>Melaleuca incana</i>					x	x	x	x	x	x	x	
<i>M. preissiana</i>	x	x									x	x
<i>M. viminea</i>							x	x	x	x	x	
<i>Taxandria linearifolia</i>			x	x	x							
Rushes etc. (@8 per m2)												
<i>Ficinia nodosa</i> (set above the high water line)	x									x	x	x
<i>Juncus kraussii subsp australiensis</i> (set in 1m wide strip on and below the high water level)	x									x	x	x
<i>Juncus pallidus</i> (damp areas)										x	x	x
<i>Lepidosperma longitudinale</i> (set on and just below the high water line)					x	x		x	x	x		

Area L - Bush Garden and Zamia Garden - The naturally regenerated shrubs, of which many are *Melaleuca incana*, will be retained but the weeds will be sprayed out and a mulched bush garden created. There will be rushes on the shoreline, with wetland plants set amongst the branches of the tree and jarrah forest plants at the butt end of the tree, just 1 – 3 of each plant, all to soften but not hide the tree. Any special plants that can be obtained such as *Macrozamia riedlii*, will also be added.

Plants from this list will also be used to create a small planted area around the remnant *Macrozamia riedlii* in the picnic area, to give it some protection and small areas between the central car park and the path will be planted (with low plants so as to not block views) as they are too narrow to have as irrigated lawn.

List 10 Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<i>Acacia stenoptera</i>			x	x	x	x	x	x	x	x	x	x
<i>Anigozanthus mangleissii</i>								x	x	x	x	
<i>Astartea scoparia</i>	x	x										
<i>Callistemon glaucus</i>									x	x	x	x
<i>Conostylis aculeata</i>								x	x	x	x	
<i>Daviesia decurrens</i>						x	x	x	x			
<i>Darwinia citriodora</i>					x	x	x	x	x	x	x	x
<i>Ficinia nodosa</i> (set above the water line)	x									x	x	x
<i>Grevillea ripicola</i>			x	x							x	x
<i>Hemiandra pungens</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Hypocalymma angustifolium</i>						x	x	x	x	x		
<i>Leptospermum erubescens</i>							x	x	x	x	x	
<i>Juncus kraussii</i> subsp <i>australiensis</i> (set in 1m wide strip on and below the high water level)	x									x	x	x
<i>Melaleuca incana</i>					x	x	x	x	x	x	x	