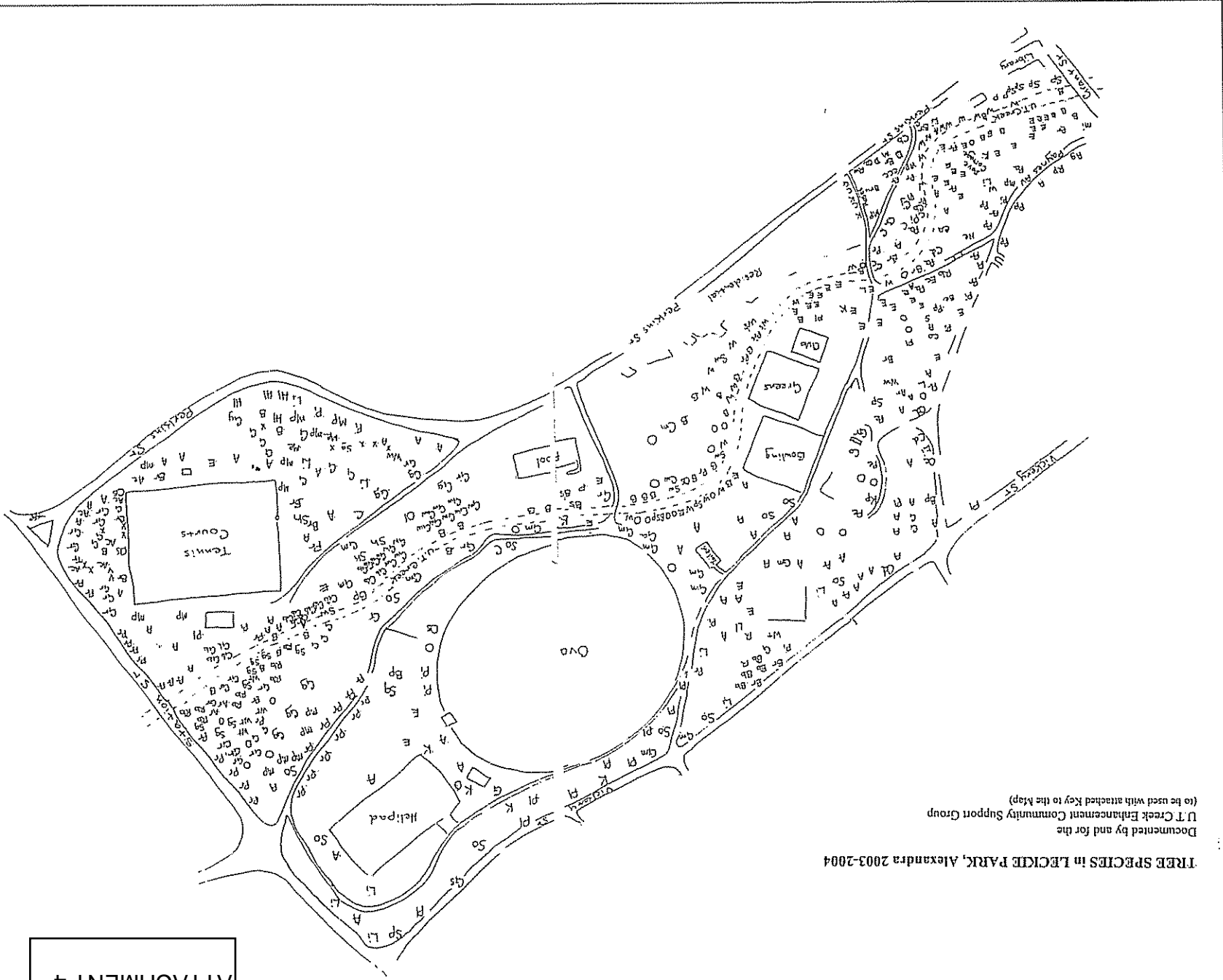


ATTACHMENT 4



TREE SPECIES in LECKIE PARK, Alexandria 2003-2004
Documented by and for the
U T Creek Enhancement Community Support Group
(to be used with attached Key to the Map)

**Key to the map of tree species in Leckie Park, Alexandra
documented for the U.T. Creek Enhancement Group 2003-2004**

- A** Ash *Fraxinus* sp. Europe
- Ac** Acacia sp. Australia
- Ag** Golden Ash *Fraxinus exelsior* 'Aurea' Europe
- Ar** Irish Strawberry *Arbutus unedo* Ireland, Mediterranean
- B** Blackwood *Acacia melanoxylon* Australia
- Bb** Bottlebrush *Callistemon* sp. Australia
- Be** Beech *Fagus* sp. Europe
- Bp** Bunya Bunya Pine *Araucaria bidwilli* Queensland
- Br** Silver Birch *Betula pendula* Europe, Asia
- Brw** Weeping Silver Birch *Betula pendula* 'Youngii'
- C** Conifer sp. Europe, Asia, America
- Ca** *Catalpa bignoides* USA
- Cb** Blue Cedar *Cedrus atlantica glauca* North Africa
- Cd** Himalayan Cedar *Cedrela deodara* North-west India
- Cj** Himalayan Juniper *Juniperus recurva* var *coxii* Upper Burma
- Cm** Monterey Pine *Pinus radiata* California
- Co** *Cotoneaster* sp. China or Himalayas
- Cr** Crepe Myrtle *Lagerstroemia indica* China
- D** Dogwood *Cornus* sp.
- E** English Elm *Ulmus procera* England
- Ec** Chinese Elm *Ulmus parviflora* China, Korea, Japan

- G** Gum *Eucalyptus* sp. Australia
- Ga** Manna Gum (Rough-barked) *Eucalyptus viminalis* subspecies *pryoriana*? Vic
- Gb** Blue Gum *Eucalyptus globulus* Vic, Tas
- Gg** Sugar Gum *Eucalyptus cladocalyx* South Australia
- Gl** Honey Locust *Gleditsia tricanthus* North America
- Gm** Southern Mahogany Gum *Eucalyptus botryoides* Vic, NSW
- Gr** Red Gum *Eucalyptus camaldulensis* Australia
- Gs** Spotted Gum *Eucalyptus maculata* Vic, NSW, Q
- Gw** Swamp Gum *Eucalyptus ovata* Vic, SA, NSW
- Gy** Yellow Box *Eucalyptus melliodora* Vic, NSW
- Hl** Honey Locust *Gleditsia tricanthus* North America
- K** Kurrajong *Brachychiton populneus* Vic, NSW, Q, NT
- Kp** Pink Kurrajong *Brachychiton x populneo-acerifolius* NSW
- L** Cherry Laurel *Prunus laurocerasus* Europe, Asia Minor
- Li** Liquidamber *Liquidamber styraciflua* USA, Mexico, Guatemala
- Ll** Lilac *Syringia vulgaris* Eastern Europe
- M** Magnolia *Magnolia grandiflora* USA
- Me** *Melaleuca* sp. Australia
- Mi** *Michelia* sp. China
- Mp** Maple *Acer* sp. Europe, Asia, America
- Ne** Nectarine *Prunus persica* var *nectarina* China
- O** English Oak *Quercus robur* Europe, Asia, North Africa
- Oc** Cork Oak *Quercus suber* Europe, North Africa

- OI** Olive *Olea europea* Europe
- Os** Scarlet Oak *Quercus coccinea* North America
- Ow** Ovens Wattle *Acacia pravissima* Vic, NSW
- P** Lombardy Poplar *Populus nigra* Italica Europe
- Pa** Paulownia *Paulownia tomentosa* China
- Pe** Pepper tree *Schinus molle* South America
- Pi** Pin Oak *Quercus palustris* Eastern USA
- Pl** London Plane Tree *Platanus x acerifolia* Europe
- Pp** Pittosporum *Pittosporum eugenoides variegatum* New Zealand
- Pr** *Prunus* sp. Asia, Europe
- Prw** Weeping Cherry Cheal's Weeping Cherry
- Pt** Chusan Palm? *Trachycarpus fortunei* Upper Burma, China, Japan
- R** Rose *Rosa* sp. Europe, Asia
- Rb** Red Box *Eucalyptus polyanthemos* Vic, NSW
- Rp** False Acacia *Robinia pseudoacacia* USA
- Rw** Weeping Rose *Rosa* sp. Europe, Asia
- Sg** Silver gum *Eucalyptus crenulata* Vic
- Sh** Sheoak *Casuarina* sp. Australia
- So** Silky Oak *Grevillea robusta* NSW, Q
- Sp** Silver Poplar *Populus alba* Europe, Asia
- Sq** Redwood *Sequoia semoervirens* California
- Sw** Silver Wattle *Acacia dealbata* Tas, Vic, NSW, Q

- Tt** Tea tree *Kunzea* or *Leptospernum* sp. Australia
- V** *Grevillea* sp. Australia
- W** Whitecrack Willow *Salix* sp. Europe, Asia
- Wp** Pussy Willow *Salix caprea* Europe, Asia
- Wt** Washington Thorn *Crataegus phaenopyrum* USA
- Ww** Weeping Willow *Salix babylonica* China
- X** Unidentified sp.

Acknowledgements:

Kenneth A. Beckett *The Concise Encyclopaedia of Garden Plants* Orbis Publishing
Hugh Johnson *The International Book of Trees* Mitchell Beazley Ltd
Earnest Lord & J.H. Willis *Shrubs and Trees for Australian Gardens* Lothian

U.T.CREEK ENHANCEMENT COMMUNITY SUPPORT GROUP

MASTER PLAN REPORT

RECOMMENDATION 111

The Group recommends that the Trees listed below should be placed on the National Trust's Register of Significant Trees and believes that they are certainly of LOCAL SIGNIFICANCE. Therefore even if any [or all] of them are not accepted by the Trust that a Municipal Register should be established for the Shire of Murrindindi and that this List should form the basis of such a Register.

LIST OF TREES IN THE U.T.CREEK RESERVE REGARDED AS BEING OF STATE SIGNIFICANCE –CERTAINLY OF LOCAL SIGNIFICANCE.

1. EUCALYPTUS CAMALDULENSIS [RIVER GED GUM]

LOCATION Adjacent to the War Memorial and the Bowling Club Carpark.

AGE Believed to be up to 300 years? old.

GIRTH 6.3 metres

HEIGHT 25 metres

CONDITION Good, but has suffered loss of branches.

COMMENTS Needs protection from adjacent entry road to the Car Park and pedestrians and cars need protection from possible falling branches. Recommended that a low barrier be provided 3 metres out from the trunk. This would need the access road to be slightly diverted.

2. CORK OAK [QUERCUS SUBER]

LOCATION Adjacent to the corner of Paynes Avenue and Vickery Street.

AGE Approx 130 years

GIRTH 3.3 metres

HEIGHT 15 Metres

CONDITION Good

3. ARAUCARIA BIDWILLII - BUNYA PINES [THREE IN NUMBER]

LOCATIONS **1.** Near the Cork Oak at the junction of Paynes Ave and Vickery Street in Leckie Park.

2. East side of the Cricket Ground adjacent to the Sequoia.

3. South Side of U.T. Creek , between Tennis Courts &

Swimming Pool , in direct N/S Line with No **2.**

AGE Approx 130 years

GIRTH No 1 -4.2 metres , No 2 -3.1 metres , No 3 - ?

2.

- HEIGHT Each about 25 Metres
- CONDITION Excellent , all three

4. BRACHYCHITON POPULNEO-ACERIFOLIUS [PINK KURRAJONG]

- LOCATION Near the Old Bandstand
- AGE Probably 130 years
- GIRTH [Double trunk] 3.7 metres
- HEIGHT 20 metres
- CONDITION Good

5. SCHINUS MOLLE [PEPPERCORN] *OF LOCAL SIGNIFICANCE ONLY*

- LOCATION Near the Old Bandstand
- AGE Probably 130 years
- GIRTH 3.1 metres
- HEIGHT 8 Metres
- FAIR Fair
- COMMENTS The Trunk has become hollowed and gnarled , making it an interesting specimen , especially to children.

6. PLATANUS ACERIFOLIA [LONDON PLANE] AVENUE [8 Trees in Number]

- LOCATION At the Northwest end of the Cricket Ground.
- AGE Approx. 120 Years
- GIRTH On average 2.5 Metres
- HEIGHT On average 20 Metres
- CONDITION Good

7. QUERCUS ROBUR [ENGLISH OAK]

- LOCATION Adjacent to the Cricket Ground [SW corner] and the footbridge to the Swimming Pool.
- AGE Approx 136 years
- GIRTH 2.5 Metres
- HEIGHT About 25 Metres
- CONDITION Excellent

8. QUERCUS ROBUR [ENGLISH OAK]

- LOCATION Behind 15 Perkins Street , on the Creek reserve.
- AGE Probably 136 years

3.

GIRTH 6.0 Metres
HEIGHT 25 Metres
CONDITION Good

COMMENTS Claimed to be , by legend , amongst the earliest trees to be planted in Alexandra.

9. PINUS RADIATA [MONTEREY PINE]

LOCATION Behind 15 Perkins Street, on the Creek Reserve.
AGE Probably 136 Years
GIRTH 4 Metres
HEIGHT 30 Metres
CONDITION Fair to Good- Has suffered from pruning following fallen Branches.

COMMENTS Claimed to be , by legend, amongst the earliest trees to be planted in Alexandra.

10. SEQUOIA SEMPERVIRENS [REDWOOD]

LOCATION East Side of Oval adjacent to Bunya Pine
AGE Probably 130 years
GIRTH 4 Metres
HEIGHT 20 Metres
CONDITION Good

11. EUCALYPTUS MACULATA [SPOTTED GUM]

LOCATION Adjacent to Vickery Street , near junction with Station Street
AGE Probably Approx 80 years
GIRTH 3.5 Metres
HEIGHT 25 Metres
GOOD Good . Excellent Specimen.

ATTACHMENT 6

U.T. CREEK ENHANCEMENT COMMUNITY SUPPORT GROUP

FUTURE TREE PLANTING POLICY

BACKGROUND

Alexandra has a historic and valued tradition and background in its wealth of old trees, both exotic and native. Many were planted by the early residents, as the Town developed from a gold mining camp in the mid to late 1800's. The trees were planted on our streets, in house blocks, but above all in our Parks and Leckie Park probably has the most important collection of large and significant trees. [See Attachments 4 & 5]. Recent plantings have been by the Rotary Club of Alexandra [over the last 20 years, many at the initiative of the late Jack Shiel] and by organisations such as this Group, on occasions such as National Tree Day. Sometimes, plantings have lacked planning and selection of species has been haphazard –we admit to this ourselves.

SURVEY OF LECKIE PARK

Thanks to our member Joan Edwards, a survey of Leckie Park trees is attached [Attachment 4] and we now have a complete record of the trees in Leckie Park at 2004. Our following proposals are based on that Survey and the knowledge and experience of our members, including from the Department of Sustainability & Environment, the Department of Primary Industry, the Goulburn Broken Catchment Management Authority, the Upper Goulburn Field Naturalists and long experience.

STATEMENT OF OBJECTIVES

The Objectives of this Policy are:

- to ensure the ongoing growth and development of the trees in Leckie Park and the whole U.T.Creek reserve, from Station Street to Halls Road initially.
- to ensure that the existing historic botanical heritage of Alexandra's Parks, built up over nearly 150 years is retained and enhanced.
- that this heritage of an intriguing mix of imported species and native species
- [including conifer/cypress types] is continued.
- that a maintenance & replacement policy -to ensure identification of species needing replacement and appropriate replacements –is provided.

PARK OR SPECIMEN TREES v BED & BANKS TREES

There is a clear need to make a distinction between Specimen /Park Trees and those to be placed within the Banks of the U.T.Creek.

For the Bed & Banks, the Group has recommended the policy that only native trees of known indigenous type should be used as replacements and for new planting.

Whereas , the Park now has a rich legacy of interesting trees of exotic and native species from all over Australia and the world, as mentioned elsewhere , a heritage built over nearly 150 years. This mix should be continued for the Park. The further diversity provided by the contrast of hardwood and softwood species [exotic or native] is also important.

In order to protect the Creek banks ,we do make a very important qualification on the use of Exotic Specimen Trees near the Creek bank. Because some of these sucker and drop seeds, future Exotics which have a habit of suckering or excessive dropping of seeds, should NEVER be planted where suckers or seeds could reasonably affect the bank. We suggest as a guide to within 20/30 Metres of the Creek bank. Obviously this qualification should be seen only as a caution in regard to Rotary Park and Jack Shiel Garden.

TREES NEEDING REVIEW OR REPLACEMENT

In our view , the following trees have either reached the end of their useful life or can be expected to reach that end in the not very distant future:

Mahogany Gum There are a number of these within the Park, some should be removed immediately or very soon. Others can be expected to reach the need for replacement in the next few years. We recommend that , apart from 5 we will list separately, all Mahogany gums should be inspected annually and those needing replacement be replaced within 12 months. From their performance within the Park, we question whether they should be used again.

There are 5 Mahogany Gums in the vicinity of the Toilet Block and Cricket Ground, which should be replaced in the next 12 months to 2 Years.

Recommended Replacement Either Yellow Box or Candle Bark Eucalypts.

Desert Ash & English Ash There are many of these trees throughout the Park, many are in good to reasonable condition, some which we will identify have reached the end of a useful life and should be removed. Again we recommend that these trees be inspected and planned removal be undertaken each year.

Recommended Replacement
See the following List.

RECOMMENDED SPECIES FOR REPLACEMENT OR NEW PLANTING

The following List is not exclusive , but we favour the following for their beauty, long life, reasonable freedom from dangerous branches, general use elsewhere etc. Other species could be used , but they should fit generally the above criteria as Specimen or Park Trees.

Native Trees

Yellow Box *Eucalyptus melliodora* Vic. NSW
 Yellow Gum *Eucalyptus leucoxylon* Vic, SA
 Candle Bark Gum *Eucalyptus rubida* Vic, NSW, Q
 River Red Gum *Eucalyptus camaldulensis* Australia
 [but only away from Paths ,in quiet corners or creek areas- danger of falling
 branches]
 White Box *Eucalyptus albens* Vic, NSW
 Spotted Gum *Eucalyptus maculata* Vic, NSW, Q
 Smooth –barked Apple –Myrtle or Rusty Gum *Angophera costata* NSW , Q
 Red Ironbark *Eucalyptus sideroxylon* Vic, NSW. Q
 Blackwood *Acacia melanoxylon*
 Bunya Pine *Araucaria bidwillii*
 River She-oak *Casuarina cunninghamiana*
 Drooping She-oak *Casuarina verticillata* [syn. *Casuarina stricta*]
 Kurrajong *Brachycton populneo-acerifolius* Pink flowered form NSW
 Drooping or Weeping Bottlebrush [red] *Callistemon viminalis* NSW, Q
 White Bottlebrush or Pink-tips [ie new growth] *Callistemon salignus* NSW, Q

Exotic Trees

English Oak *Quercus robur* Europe, Asia, North Africa
 Cork Oak *Quercus suber* Europe , North Africa
 Scarlet Oak *Quercus coccinea* North America
 Golden Ash *Fraxinus exelsior* [grafted and sterile] Europe
 Claret Ash *Fraxinus raywoodii* [grafted and sterile] Australian –raised hybrid
 London Plane Tree *Platanus x acerifolia* Europe
 Tulip Tree *Liriodendron tulipifera* USA
 Crabapple *Malus sp* Europe
 Himalayan Cedar *Cedrus Deodara*
 Redwood *Sequoia Sempervirens*
 Douglas Fir *Psuedotsuga Menziesii*
 Liquidambar *Liquidambar Styraciflua*

ELMS [ULMUS PROCERA]

Under present circumstances, where the Elm Leaf Beetle is already seriously impacting on existing trees in the Park and the threat of the disease already in New Zealand, it is not possible to recommend the further use of Elms in the Reserve. There are methods of control of the Beetle, but these can be very expensive and to date the Shire has not used these measures extensively. We have advice that there are Shires who have purchased supplies in bulk and used injection methods successfully. Unless such measures are taken, it can be expected that the life of existing Elms will not be long.

AREAS NEEDING ADDITIONAL PLANTING

1. The Area immediately east of the Bowling Club

Several of the trees in this area need replacement. We propose that the Walking Track will wind through this area and we would like to propose 5/6 additional trees here. We do not suggest any trees closer than 20 metres to the Bowling Green Hedge and we propose Bottlebrush as the closest.

Further out we recommend , several Candlebark Gum, Blackwood, Casuarina , a Tulip tree and a Golden Ash

2. The Former Tennis Courts

We have suggested a Car Park for walkers and casual visitors to Leckie Park in this area. While this might not be immediately possible [because funds might not be available] planting of a number of trees between the old courts is feasible and is recommended.

3. East end of Leckie Park-east of Cricket Ground

There is scope for additional trees in this area [a mix of exotics and natives] and this could be planted in discussion with the Little Athletics Group , which is the principal user of this area.

4. South side of Creek , west of Rotary Park

Most trees in this area [where the Walking Track will be placed] will be close to the Creek bank and should be native, but there is scope for 3 or 4 Exotics [note our qualification on suckering or excessive seeds], as specimen trees in bends of the Creek.

U.T. CREEK ENHANCEMENT COMMUNITY SUPPORT GROUP

SECTION 2.7 WALKING TRACKS

RECOMMENDATION That a series of walking tracks be established in the Reserve, based on a single Spine track from Station Street to Halls Road, with Feeder tracks to points of interest and connections to other attractions. That the Tracks be designed for walkers and cyclists, with an appropriate surface for those purposes, probably crushed rock or asphalt, with a natural colour surface.

While we initially envisage a single spine Track , with feeder tracks to points of interest , we would support extensions in the longer term and if funds were available, to both sides of the Creek and on to the Goulburn River and to other points eg Josephine Cutting , McKenzie Reserve etc.

DETAILS

The Walking /Cycling track , commencing from the Station Street end, would use the existing circular track, with a new spur to Station Street , as a link to the Timber Tramway Museum. The existing track needs substantial improvement, both to the surface and edges [to improve existing erosion problems]. From the Swimming Pool footbridge, [where an improved link to the Swimming Pool would be needed], the track would lead in a winding route to link with the existing track –to complete the circle near the corner of the Bowling green. A link from the Swimming Pool footbridge past the Toilet block, between the two arms of the Track would be desirable. Then through the Bowling Club Car Park, where the surface of the Walking Track would need to be clearly different from the Car Park surface. Past the Jack Shiel Gardens Footbridge ,follow the existing Paynes Avenue Track on the right side of Dove Cottage, into Paynes Ave , to the Grant Street Footpath.

The Group is agreed that in the long term the Track should pass [if feasible] UNDER Grant Street - but we note that engineering evaluation by the Shire suggests :

- That the under the Bridges Route is not feasible and that initial discussions with the GBCMA suggest they would not support this Route. We do not wish to abandon this option totally and believe that in the long term it should be re-examined.
- That either of the suggested Pedestrian Crossings of Grant street is feasible and should be favoured over the under Bridge solution.

The Engineering Report [attached for future Reference] does not seem to favour either the north or south option for a Pedestrian Crossing, although there may be a leaning to the south option.

Either route should bring the Track to the Playground side of the Creek, where it will follow the Creek.

THEREFORE, the Group accepts that in the initial development , the Track will need to cross Grant Street , by use of a Pedestrian Crossing [if possible with press button lights]. EITHER in front of the Library , then through the RSL Car Park OR in front of the former Information Office and over the Swing Bridge.

FAVOURED ROUTE *There are advantages and disadvantages in either route.*

The Crossing in front of the Library, is likely to receive more use, as a Pedestrian Crossing here has long been a request of the Library staff and would serve more users in this position. We accept that sight lines are more favourable for the northern route, but this Route would then require a crossing of U.T.Creek by taking the Track through Rotary Park and across the Swing Bridge, which is an intrusion into the Park.

RECOMMENDATION It is therefore our recommendation that Council agree to a Pedestrian Crossing and investigate this with VicRoads.

Either route will require some changes to the Playground Fence at the southern end of the Swing Bridge, to enable the Track to proceed on the southern side of U. T. Creek.

From the Swing Bridge, the Track will follow the Creek [see Specification Notes] , with a side track to connect to the Youth Precinct at Bayley Street, along the Albert Street Extension , to Rose Street. At Rose St Footbridge there will be a side track across the Footbridge , leading to the Urban Woodland and a walking path for School children up Vickery Street.

From Rose Street, a Bridge will be necessary over the Rose Street Creek/Drain at the end of the Bedrock Yard , then the Path will proceed to Halls Street and the Community Leisure Centre.

Future Links The Group sees future linking Tracks are likely to:

- **McKenzie Reserve, via Wattle Creek and/ or Rose Street Creek.**
 - **Josephine Cutting from Leckie Park via Johns Street and Grant Street Extension or similar.**
 - **Extension of the Main Track along U.T.Creek to the Goulburn River and along the River.**
 - **Extension via the Timber Tramway Museum to the Tallarook Rail Trail.**
 - **A Footbridge is proposed to the Tennis Courts and this would be a link path**
- See the Plan –Attachment 8

SURFACE & SPECIFICATION

The surface initially for economic reasons is proposed as crushed rock, with a natural colour Topping surface [similar to the material used at the Yea Wetlands project].

Edging of timber seems essential, but the path must be level with the adjoining grass surface to allow mowing. Crushed rock will be suitable for walking and

3.

cycling, but if later improvement is desirable , the Group would support addition of an asphalt surface.

Where the Track borders the Creek Bank, it should be about 2 Metres from the Bank or the plant line, to allow mowing between the Track edge and the Creek bank, or planting line.

Low ground requiring filling, bridging or culverts should be avoided where possible , by moving the line to higher ground if available.

Vistas will be chosen . where a view of the Creek should be preserved , or where access to the Creek Bank is desirable and where vegetation should be kept clear.

Width and preparation should be in accordance with Parks Victoria Specifications for Shared Walking /Cycling Tracks

ATTACHMENT 8

