Roadside Vegetation and Conservation Values in the Shire of Donnybrook-Balingup

Photo by G. Hale

December 2008

Roadside Conservation Committee

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Executive Summary

This report provides an overview of the conservation status of roadside remnant vegetation in the Shire of Donnybrook-Balingup. The report primarily provides detailed results of the roadside survey and is accompanied by management recommendations. It also briefly describes the natural environment in Donnybrook-Balingup, legislative considerations and threats to conservation values.

Aware of the need to conserve roadside remnants, the Shire of Donnybrook-Balingup, local community members and Amanda Malone, the Landcare Coordinator, liaised with the Roadside Conservation Committee (RCC) in 2007 to survey roadsides in their Shire. Surveys to assess the conservation values of roadside remnants were conducted between September and December 2007. The majority, 82.1%, of the Shire's 711.04 km of roadsides were assessed by the RCC for their conservation status and maps were produced via a Geographic Information System (GIS). Roadside locations of six nominated weeds and the risk of fire on roadsides were also recorded and mapped onto separate clear overlays.

The results of the survey indicated that high conservation value roadsides covered 35.2% of the roadsides surveyed in the Shire, with medium-high conservation value roadsides accounting for 13.5%. Medium-low and low conservation value roadsides occupied 8.1% and 43.2%, respectively. A more detailed analysis of results is presented in Part C of this report.

It is envisaged that the primary purpose of the roadside survey data and Roadside Conservation Value (RCV) map will be for use by Shire and community groups as a management and planning tool. Applications may range from prioritising work programs to formulating management strategies. Past experience has shown that this document and the accompanying maps are valuable in assisting with:

- formulating a roadside vegetation management plan for roads maintenance work;
- identifying degraded areas for strategic rehabilitation or specific management techniques and weed control programs;
- re-establishing habitat linkages throughout the Shire's overall conservation network;
- developing regional or district fire management plans;
- identifying potential tourist routes, i.e. roads with high conservation value would provide visitors with an insight into the remnant vegetation of the district; and
- incorporating into Landcare or similar projects for 'whole of' landscape projects.

Progressive surveys of some Shires have revealed an alarming decline in the conservation status of many roadside reserves. In some cases the conservation value has declined at a rate of approximately 10% in 9 years. This trend indicates that without appropriate protection and management, roadside reserves will become veritable biological wastelands within the near future. However, proactive and innovative management of roadside vegetation has the potential to abate and reverse this general decline. Opportunities exist for the Shire of Donnybrook-Balingup to utilise the RCV map in many facets of its Landcare, tourism, road maintenance operations and Natural Resource Management (NRM) strategy documents. In addition, the RCC is available to provide assistance with the development of roadside vegetation management plans and associated documents.

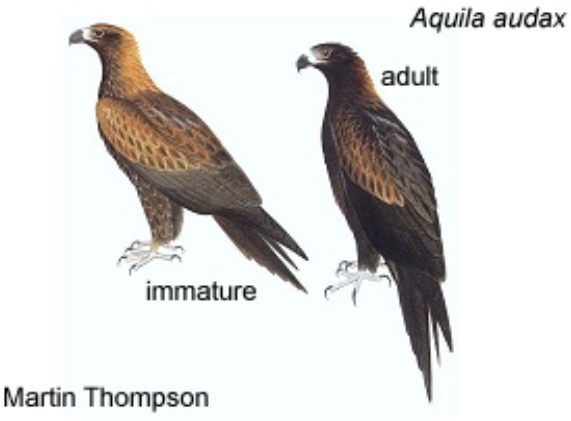
PART A

OVERVIEW OF ROADSIDE CONSERVATION

1.0 Why is Roadside Vegetation Important?

Since the settlement of Western Australia by Europeans, large areas of native vegetation in the south west of the State have been cleared for agriculture, roads, settlements, and other development. The fragmentation of the more or less continuous expanse of native vegetation communities by clearing has resulted in the isolation of plant and animal populations. This results in a mosaic of man-made biogeographical islands of small native vegetation remnants.

The flora and fauna in these areas are severely disadvantaged and these habitats are typically unreliable for sustaining wildlife due to limited and scarce food resources, increased disease risk and the reduced genetic diversity caused by a diminishing gene pool. Some habitat fragments may be too small to provide the requirements for even a small population, therefore it is essential to their survival that they have a means of dispersing throughout the landscape. The presence of native vegetation along roadsides often fulfils an important role in alleviating this isolation effect by providing connectivity between bush remnants. While many roadside reserves are inadequate in size to support many plant and animal communities, they are integral in providing connections between larger areas of potentially more suitable remnant patches. It is therefore important that all native vegetation is protected regardless of the apparent conservation value it contains. It is important to acknowledge that even degraded roadsides have the ability to act as corridors for the dispersal of a variety of fauna.



The Wedge-tailed Eagle (*Aquila audax*) has been recorded in the Shire of Donnybrook-Balingup.

Illustration by M. Thompson, Photo used with the permission of the WA Museum, FaunaBase (http://www.museum.wa.gov.au/faunabase.htm).

Other important values of transport corridor remnants are that they:

- are often the only remaining example of original vegetation within extensively cleared areas;
- often contain rare and endangered plants and animals. Currently, more than 50% of Declared Rare Flora (DRF) have at least one roadside population and three species are known only to exist on roadsides;
- provide the basis for our important wildflower tourism industry. The aesthetic appeal of well-maintained roadsides should not be overlooked, and they have the potential to improve local tourism and provide a sense of place;
- often contain sites of Aboriginal/ European historic or cultural significance;
- provide windbreaks and stock shelter areas for adjoining farmland by helping to stabilise temperature and reduce evaporation;

Flora Roads are high conservation value roadside remnants.
Photo D. Lamont.

- assist with erosion and salinity control, in both the land adjoining the road reserve and further afield; and
- provide a valuable source of seed for regeneration projects. This is especially pertinent to shrub species, as clearing and grazing beneath farm trees often removes this layer. Approval of the local Shire and a Department of Environment and Conservation (DEC) permit are required prior to collection. Guidelines for seed and timber harvesting can be found in Appendix 6.

2.0 What are the Threats?

2.1 Lack of Awareness

The general decline of the roadside environment can, in many instances, be attributed to the lack of awareness of the functional and conservation value of the roadside remnants, both by the general community and those who work in the road reserve environment. As a consequence, there is a lack of knowledge of threatening processes (such as road maintenance and inappropriate use of fire) on the sustainability of the roadside reserve as a fauna corridor and habitat area. This situation can therefore act as a catalyst for decline in environmental quality.

2.2 Roadside Clearing

Western Australia's agricultural region, also known as the Intensive Land-use Zone (ILZ), covers an area of approximately 25,091,622 ha, of which only 29.8% is covered by the original native vegetation. Of the 87 rural Local Government Authorities in this zone, 21 carry less than 10% of the original remnant vegetation and a further 30 have less than 30% (Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. 2001).

Inappropriate road management practices, particularly the systematic and indiscriminate clearing of roadside vegetation in some areas has caused irreversible damage and impacted enormously upon the conservation value of roadsides in Western Australia. Clearing roadside vegetation reduces the viability of the roadside to act as a biological corridor, the diminished habitat width impeding the movement of wildlife throughout the surrounding landscape matrix. Roadside clearing activities have the potential to introduce and spread weeds, due to the movement and disturbance of soil, thus competing with native vegetation residing in the roadside. When coupled with poor site planning and preparation, road construction and maintenance projects can often introduce and spread weeds into previously undisturbed, weed-free roadsides. Roadsides are, in many cases, the only remaining example of remnant vegetation in agricultural areas, yet they are also at great risk due to ongoing clearing.

Amendments to the *Environmental Protection Act* 1986 have put in place a permit application process designed to assess vegetation clearing based upon a number of clearing principles which ensure ecological, conservation and land degradation issues are considered. Under the Act clearing native vegetation requires a permit unless it is for exempt purposes. These amendments are designed to provide improved protection for native vegetation, maintain biodiversity and allow for some incidental clearing activities to continue, such as day-to-day farming practices, without the need for a permit.

2.3 Fire

Although Western Australia's flora and fauna have evolved with a tolerance to pre-European fire regimes these are generally not present today. Fire in transport corridors will inevitably alter the native vegetation, however the extent of changes is dependent on a number of factors such as:

- species present;
- intensity of fire;
- frequency of fire; and
- seasonality of the fire.

The RCC's policy on fire management is:

- roadside burning should not take place without the consent of the managing authority;
- Local Government Authorities should adopt by-laws to control roadside burning;
- roadside burning should be planned as part of a total Shire/area Fire Management Plan;
- only one side of a road should be burnt in any one year;
- when designing a Fire Management Plan, the two principles which must be kept in mind are the ecological management of vegetation and the abatement of fire hazard;
- no firebreaks within the Road Reserve should be permitted unless the width of the roadside vegetation strip is greater than 20m;
- a firebreak on any road reserve should be permitted only when, in the opinion of the road manager, one is necessary for the protection of the roadside vegetation. The road manager shall specify the maximum width to which the break may be constructed; and
- in the case of any dispute concerning roadside fire management, the Fire and Emergency Services Authority (FESA) should be called in to arbitrate.

If a decision is made to use fire, only one side of a road should be burnt at a time, as this will ensure habitat retention for associated fauna and also retention of some of the scenic values associated with the road.

Fire can be particularly destructive to heritage sites, whether they are of Aboriginal or European origin. Before any decision is made to burn a road verge, particularly if threatened flora is present, the proponent should be aware of all values present and the impact the fire will have. It is illegal to burn roadsides where Declared Rare Flora (DRF) is present, without written permission from the Minister for the Environment.

Before a decision is made to burn a road verge, the impact on natural, cultural and landscape values should be carefully considered.
Photo D. Lamont

2.4 Weeds

Weeds are generally disturbance opportunists and as such the road verge often provides a vacant niche which is easily colonised. Their establishment can impinge on the survival of existing native plants, increase flammability of the vegetation and interfere with the engineering structure of the road. The effect of weed infestations on native plant populations can be severe, often with flow on effects for native fauna such as diminished habitat or food resources.

Once weeds become established in an area, they become a long-term management issue, costing considerable resources to control or eradicate. The WA Herbarium records 49 weed species in the Shire of Donnybrook-Balingup (Appendix 4). The roadside survey recorded populations of six significant weeds, and their locations were mapped by the RCC onto clear overlays. The six nominated weeds were:

- Blackberry (*Rubus fruticosus*)
- Bridal Creeper (*Asparagus asparagoides*)
- Watsonia (*Watsonia* sp.)
- African Lovegrass (*Eragrostis curvula*)
- Wild Radish (*Raphanus raphanistrum*)
- Tree Weeds (eg: Willows, Pines, Black Wattle etc)

The Blackberry can significantly affect recreational sites and overcrowd native bushland.

Photography by A. Ireland. Photo used with the permission of the WA Herbarium, DEC http://florabase.calm.wa.gov.au/help/photos#reuse).

Roadside populations of these weeds can be observed on the weed overlays provided with the Donnybrook-Balingup Roadside Conservation Value map (2008). The Roadside Conservation Value map and weed overlays will assist the Shire and community in planning, budgeting and coordinating strategic weed control projects. Further information on the presence of these nominated weeds is presented in Part C.

Watsonia species have been found within the Shire of Donnybrook-Balingup.

Photography by B.A. Fuhrer & T.J. Alfod. Photo used with the permission of the WA Herbarium, DEC http://florabase.calm.wa.gov.au/help/photos#reuse).

Originating from South Africa, the Bridal Creeper was brought to Australia as a foliage plant.

Photography by R. Knox and J.Dodds. Photo used with the permission of the WA Herbarium, DEC http://florabase.calm.wa.gov.au/help/photos#reuse).

2.5 Salinity

Salinity is one of the greatest environmental threats facing Western Australia's agricultural areas, with approximately 1.8 million hectares in the South West Agricultural Region already affected to some degree. Dryland salinity has occurred as a consequence of the heavy clearing undertaken in the past, namely the removal of perennial deep-rooted native vegetation and replacement by shallow rooted annual crops and the subsequent rising of the water table. The large amount of salt stored within the soil column in these areas of Western Australia is dissolved by the rising water and carried into the root-zone to the soil surface. Once at the surface the water evaporates leaving a white film of salt over the landscape, making it unproductive for current agricultural practices and severely impacting upon the remaining native vegetation. Without significant changes to the current land use it has been estimated that approximately 3 million hectares will be affected by salinity by 2010-2015 and 6 million hectares, or 30% of the region, affected by the time a new groundwater equilibrium is reached (Department of Agriculture WA, 2004).

The effect of salinity has not only been restricted to agriculture, but is also having a serious effect on rural townsites and the road network. The National Land and Resources Audit (2002) warned that across Australia some 19,800km of roads, 1,600km of railways and 306 towns are all at a high risk from dryland salinity (Department of Environment and Heritage and the Department of Agriculture, Fisheries and Forestry Australia, 2003). It has also been estimated that more than 4,000km (5%) of roads in the South West Land Division of Western Australia are at threat of being degraded by the effects of rising water tables and salinity.

Data on salinity and roadsides for the Shire of Donnybrook-Balingup is not available. However, several surrounding Shires have been affected (*Salinity Investment Framework Interim Report,* 2003). The data from these Shires can be seen below.

Table 1. Adapted from material produced by the Department of Agriculture WA for Department of Environment 2003, Salinity Investment Framework Interim Report - Phase 1, 2003, Department of Environment, Salinity and Land Use Impacts Series No. SLUI 32.

Shire	Total road length assessed (km)	Roads potentially affected by salinity - length in km					
		Highways	Local roads	Main roads	Other roads	Total affected	% of total potentially affected
Boyup Brook	970.67	-	17.00	1.18	11.18	29.35	3.02
Collie	610.67	-	6.40	.15	38.93	45.48	7.45
Bridgetown-Greenbushes	695.67	-	1.93	-	5.00	6.93	1.00
West Arthur	884.85	1.45	30.00	1.98	13.75	47.18	5.33

3.0 Legislative Requirements

Uncertainty often exists in the minds of many with regard to the 'ownership', control and management of 'the roadside'. This problem is also exacerbated by the multitude of legislative reference to activities within a transport corridor.

The Department of Environment and Conservation (DEC) has the legislative responsibility to manage and protect all native flora and fauna in Western Australia. It is important to note that all native flora and fauna is protected under provisions of the *Wildlife Conservation Act* 1950 and cannot be taken unless it is taken in a lawful manner. In addition to the general provisions relating to protected flora under the *Wildlife Conservation Act*, special protection is afforded to flora that is declared as rare or threatened under Section 23F of the *Wildlife Conservation Act.*

The legislation pertaining to the management of road reserves is complex and includes those listed below.

State legislation:

- *Aboriginal Heritage Act* 1972
- *Agriculture and Related Resources Protection Act* 1976
- *Bush Fires Act* 1954
- *Conservation and Land Management Act* 1984
- *Environmental Protection Act* 1986
- *Heritage of WA Act* 1990
- *Land Act* 1933
- *Local Government Act* 1995
- *Main Roads Act* 1930
- *Mining Act* 1978
- *Soil and Land Conservation Act* 1945
- *State Energy Commission Supply Act* 1979
- *Water Authority Act* 1987
- *Wildlife Conservation Act* 1950, 1979

Commonwealth legislation:

- *Environment Protection and Biodiversity Conservation Act* 1999

New legalisation has been introduced under the *Environmental Protection Act 1986* which specify that all clearing of native vegetation require a permit, unless it is for an exempt purpose. The *Environmental Protection (Clearing of Native Vegetation) Regulations* 2004 detail these requirements. Clearing applications are assessed against twelve clearing principles, which incorporate the:

- biological value of the remnant vegetation;
- potential impact on wetlands, water sources and drainage;
- existence of rare flora and threatened ecological communities; and
- likely land degradation impacts.

This assessment process is designed to provide a more comprehensive and stringent land clearing control system. There are two land clearing permits available: an area permit; and a purpose permit. For example, where clearing is for a once-off clearing event such as pasture clearing or an agricultural development, an area permit is required. Where ongoing clearing is necessary for a specific purpose, such as road widening programs, a purpose permit is needed. Shire road maintenance activities are exempt, to the width and height previously legally cleared for that purpose (refer to Schedule 2 of the *Environmental Protection (Clearing of Native Vegetation) Regulations* 2004).

It is recommended that a precautionary approach be taken when working within roadsides and that the relevant authority be contacted if there is any doubt about the management or protection of heritage or conservation values present in the roadsides.

4.0 Environmentally Sensitive Areas

An Environmentally Sensitive Area (ESA) is a section of roadside that requires special protection for the following reasons:

- protection of rare or threatened species of native plants;
- protection of sites that have other high conservation, scientific or aesthetic values; and/or
- protection of Aboriginal or European cultural sites.

Environmentally Sensitive Areas can be delineated by the use of site markers. See the RCC publication *Guidelines for Managing Special Environmental Areas in Transport Corridors* for design and placement of ESA markers. Workers who come across an 'Environmentally Sensitive Area' marker in the field should not disturb the area between the markers unless specifically instructed. If in doubt, the Works Supervisor, Shire Engineer or CEO should be contacted. Western Power and WestNet Rail also have systems for marking sites near power or rail lines.

To ensure that knowledge of rare flora and other sites does not get lost due, perhaps, to staff changes, the Local Authority should establish an *Environmentally Sensitive Area Register.* This should outline any special treatment that the site should receive and be consulted prior to any work being initiated in the area.

The *Environmentally Sensitive Area Register* should be consulted by the appropriate person prior to work commencing on any particular road. This will ensure that inadvertent damage does not occur.

Roadside ESA markers are highly visible.
Photo by K. Jackson

Local Government is encouraged to permanently mark ESAs to prevent inadvertent or inappropriate damage to rare flora or other values being protected. Markers of a uniform shape and colour will make recognition easier for other authorities using road reserves.

5.0 Flora Roads

A Flora Road is one which has special conservation value because of the vegetation contained within the road reserve. The managing authority may decide to declare a Flora Road based on the results of the survey of roadside conservation value. The Roadside Conservation Committee has prepared *Guidelines for the Nomination and Management of Flora Roads* (Appendix 7). The Flora Road signs (provided by the RCC) draw the attention of both the tourist and those working in the road reserve to the roadside flora, indicating that it is special and worthy of protection. The program seeks to raise the profile of roadsides within both the community and road management authorities.

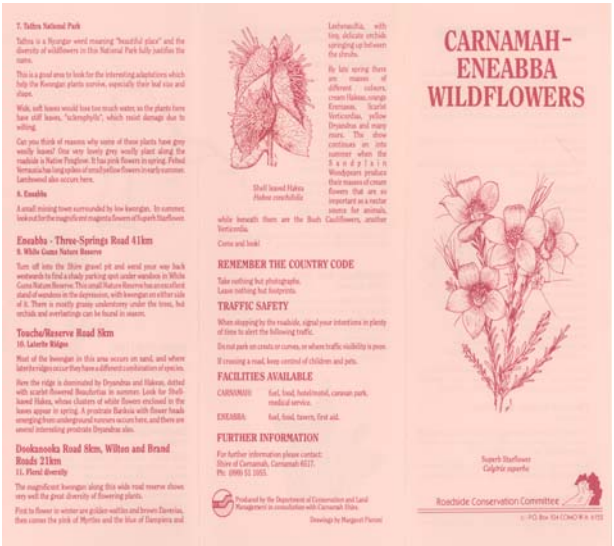
Roadsides are one of the most accessible places for tourists to view wildflowers.
Photo by DEC

Although presently there are no Flora Roads designated within the Shire of Donnybrook-Balingup, the roadside survey and the RCV map highlighted a number of roadsides that have the potential to be declared as Flora Roads. These and other roads may be investigated further to see if they warrant a declaration as a Flora Road (see Part C of this report).

In order to plan roadworks so that important areas of roadside vegetation are not disturbed, road managers should be aware of these areas. To ensure this is not overlooked it is suggested that areas declared as Flora Roads be included in the Shire's *Special Environmental Area Register*.

Attractive roadsides are an important focus in Western Australia, the "Wildflower State". Flora Roads will by their very nature be attractive to tourists and would often be suitable as part of a tourist drive network. Consideration should be given to:

- promoting the road by means of a small brochure or booklet;
- showing all Flora Roads on a map of the region or State; and
- using specially designed signs to delineate the Flora Road section (provided by the RCC).



Right: The RCC has assisted local communities to produce wildflower drive pamphlets.

PART B

THE NATURAL ENVIRONMENT IN DONNYBROOK-BALINGUP

1.0 Flora

On a global scale Western Australia has almost ten times the amount of vascular plant varieties than countries such as Great Britain. In fact, Western Australia has some 4.8% of the 250,000 known vascular flora present on Earth. Western Australian flora is also unique, with the majority of species being endemic, that is, found nowhere else in the world. Up to 75% of the 6,000 species in the south west, are endemic.

The WA Herbarium has recorded over 668 species of native plants from the Shire of Donnybrook-Balingup. The most prolific genera are *Acacia* (27 spp.), *Leucopogon* (17 spp.), *Drosera* (14 spp.), *Stylidium* (14 spp.). The complete list of recorded flora can be seen in Appendix 4 of this report.

***Goodenia eatoniana* can be found within the Shire of Donnybrook-Balingup.**

Photography by P.G. Armstrong, B.A. Fuhrer, M. Hislop & J. Scott. Photo used with the permission of the WA Herbarium, DEC http://florabase.calm.wa.gov.au/browse/profile/7505

2.0 Declared Rare Flora (DRF)

Declared Rare Flora (DRF) species, or populations, are of great conservation significance and should therefore be treated with special care when road and utility service, construction or maintenance is undertaken. Populations of DRF along roadsides are designated Environmentally Sensitive Areas (ESAs) and should be delineated by yellow stakes with an identification plate attached. The RCC suggests using the publication *Guidelines for Managing Special Environmental Areas in Transport Corridors* as a guideline for managing these sites. It is the responsibility of the road manager to ensure these markers are installed, and guides for this are available from the RCC. For information regarding DRF, contact the Department of Environment and Conservation (DEC) Flora Officer for the Blackwood District. If roadworks are to be carried out near DRF sites, it is advisable to contact DEC at least six weeks in advance.

As of February 2008, 15 locations of Declared Rare and Priority Flora are known to occur within Shire of Donnybrook-Balingup. 4 of these sites occur in roadsides vested in the Shire of Donnybrook-Balingup.

Declared Rare Flora (DRF) sites should be clearly marked with these yellow posts.

Photo K. Jackson.

In total, there is one species of Declared Rare Flora (DRF) and eight species of Priority Flora that occur in these roadside locations in the Shire, these are:

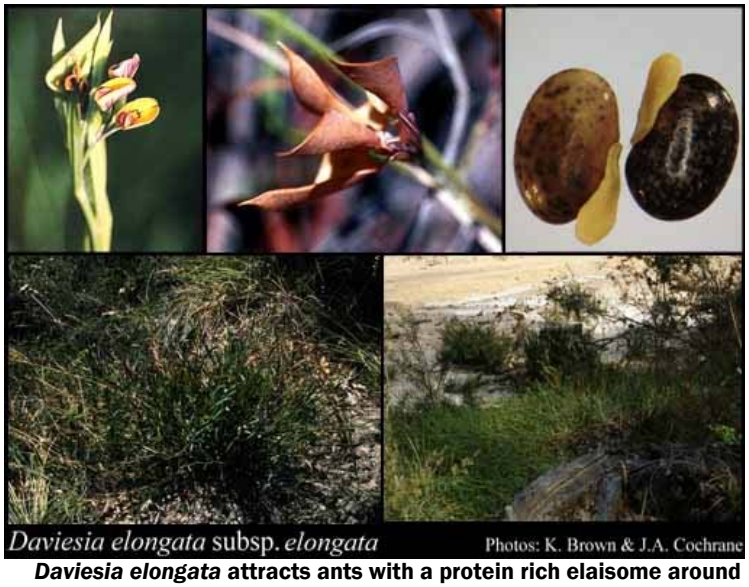
Declared Rare Flora

- *Daviesia elongata* subsp. *elongata*

Priority Flora

- *Acacia semitrullata* (P3)
- *Aotus cordifolia* (P3)
- *Boronia humifusa* (P1)
- *Caustis* sp. Boyanup (P1)
- *Goodenia arthrotricha* (P2)
- *Grevellia ripicola* (P4)
- *Senecio gilbertii* (P1)
- *Tetratheca parvifolia* (P3)

Note: this information may have changed since the time of this report's release; therefore it is important to contact the relevant DEC District office or the Species and Communities Branch in Kensington for the most recent information.



Daviesia elongata **attracts ants with a protein rich elaisome around their seeds.**

Photography by K. Brown & J.A. Cochrane. Photo used with the permission of the WA Herbarium, DEC http://florabase.calm.wa.gov.au/help/photos#reuse

3.0 Fauna

The Western Australian Museum records approximately 120 species of fauna from the Donnybrook-Balingup area (Appendix 5). WA Museum fauna records comprise specimen records, museum collections and observations from 1850 to present and therefore it is intended to act only as a general representation of the fauna in the area. Of the fauna species recorded in the Donnybrook-Balingup area, there were 56 bird, 8 amphibia, 26 mammal, 7 fish and 23 reptile species.

The Tiger Snake has been seen in the Shire of Donnybrook-Balingup.

Photo by T.M.S Hanlon, Photo used with the permission of the WA Museum, FaunaBase (http://www.museum.wa.gov.au/faunabase.htm).

Many fauna species, particularly small birds need continuous corridors of dense vegetation to move throughout the landscape. Roadsides therefore are of particular importance to this avifauna because they usually contain the only continuous linear vegetation connection in some areas.

The *Wildlife Conservation Act* 1950 provides for native fauna (and flora) to be specially protected where they are under identifiable threat of extinction, and as such, are considered to be "threatened". Based on distributional data from the Department of Environment and Conservation (DEC), five species of threatened and priority fauna have been recorded or sighted throughout the Shire of Donnybrook-Balingup, and these are listed below.

- **Chuditch (*Dasyurus geoffroii*)**

This carnivorous marsupial occupies large home ranges, is highly mobile and appears able to utilise bush remnants and corridors.

The Chuditch has been shown to use roadside vegetation as a corridor between bush remnants.

Photo by www.lochmantransparencies, Photo used with the permission of the WA Museum, FaunaBase (http://www.museum.wa.gov.au/faunabase.htm).

- **Brush-tailed Phascogale**

  (*Phascogale tapoatafa* ssp.)

The Brush-tailed Phascogale inhabits forests and woodlands where suitable tree hollows are available. Populations have been known to fluctuate dramatically in response to invertebrate prey abundance.

- **Western Ringtail Possum**

  (*Pseudocheirus occidentalis*)

This species occurs in areas of forest and dense woodlands and requires tree hollows and/or dense canopy for refuge and nesting.

The Quenda has been observed within the Shire of Donnybrook-Balingup.

Picture by Martin Thompson, Photo used with the permission of the WA Museum, FaunaBase (http://museum.wa.gov.au/faunabase.htm).

- **Water-rat (*Hydromys chrysogaster*)**

Water-rats can be found in waterways and wetlands that support its main prey items such as molluscs and crustaceans.

- **Quenda (*Isoodon obesulus fusciventer*)**

This species prefers areas with dense understorey vegetation, particularly around swamps and along watercourses, that provides ample protection from predators.

4.0 Remnant Vegetation Cover

Approximately 72% of the original native vegetation remains in the Shire of Donnybrook-Balingup and this is located in a variety of tenures from nature reserves to privately owned land. *National Objectives and Targets for Biodiversity Conservation 2001-2005* (Environment Australia, 2001) stated that vegetation types represented by less than 30% are considered ecologically endangered and in need of protection and restoration wherever they are located. Donnybrook-Balingup has around 72% remaining which is considered very high, however this percentage can quickly and easily fall if proactive measures are not taken to manage this priceless resource.

Table 2. Remnant vegetation remaining in the agricultural areas of Donnybrook-Balingup and surrounding Shires (Shepherd, Beeston and Hopkins, 2001).

Shire	Total Area (ha)	Area Inside Ag. Clearing Line (ha)	Vegetation Cover Remaining (inside agricultural clearing line)	
			(ha)	(%)
Donnybrook-Balingup	**155,143**	**155,143**	**111,737**	**72.0**
Dardanup	53,995	53,995	28,182	52.2
Busselton	145,966	145,996	64,905	44.5
Nannup	293,198	293,198	275,524	94.0
Boyup Brook	282,638	282,638	127,847	45.2
Capel	55,869	55,869	20,059	35.9

The continued presence of the flora and fauna living in these fragmented remnants is dependant on the connectivity throughout the landscape. This enables access to habitat and food resources essential for the survival of species and the overall biodiversity of the region. In many situations remnant native vegetation in transport corridors is of vital importance as it provides the only continuous link throughout the landscape.

Tree hollows are of vital importance to breeding birds.
Photo by L. McMahon, Birds Australia

Remnant roadside vegetation connects the landscape.
Photo by Main Roads WA

PART C

ROADSIDE SURVEYS IN THE SHIRE OF DONNYBROOK-BALINGUP

1.0 Introduction

The roadside survey and mapping program was developed to provide a method of readily determining the conservation status of roadsides. Using this method, community volunteers are able to participate in a 'snap-shot' survey of roadside vegetation to identify a range of attributes that when combined, give an overall indication of the conservation status of the vegetation.

The majority (583.80km, or 82.1%) of the Shire of Donnybrook-Balingup's 711.04km of roads were surveyed and then assessed to determine the conservation status of the road reserves. Fieldwork was carried out throughout the months of September and October 2007. The enthusiastic effort of the roadside surveyors, Amanda Malone, with the support provided by Donnybrook-Balingup Shire Council ensured that this project was successfully completed. The roadside surveyors were:

- Amanda Malone;
- Coral Stewart;
- Allen Brooks;
- Ken Russell;
- Diana Davidson;
- Margaret Andrews;
- Logan Anderson;
- Keith Edmunds;
- Jane Gilham;
- Irene Campbell;
- Ian Archibold;
- Gwendoline Nidd;
- Russell Peterkin
- Margaret Parke; and
- Graeme Campbell.

1.1 Methods

Roadside surveys are undertaken in a vehicle, generally with two people per vehicle. The passenger records the roadside attributes using the RCC's iPAQ hand-held personal computers. At the end of the survey, the iPAQs are returned to the RCC, where the survey information is analysed and mapped.

The methods to assess and calculate the conservation value of the roadside reserves are described in *Assessing Roadsides: A Guide for Rating Conservation Value* (Jackson, 2002). The process involves scoring a set of pre-selected attributes, which when combined, represent a roadside's conservation status. A list of these attributes is presented on a standard survey sheet (Appendix 1). This provides both a convenient and uniform method of scoring.

The following 6 attributes were used to produce a quantitative measure of conservation value:

- structure of native vegetation on roadside;
- extent of native vegetation along roadside;
- number of native species;
- level of weed infestation;
- value as a biological corridor; and
- predominant adjoining land use.

Each of these 6 attributes was given a score ranging from 0 to 2 points. Their combined scores provided a conservation value score ranging from 0 to 12. The conservation values, in the form of conservation status categories, are represented on the roadside conservation value map by the following colour codes.

Conservation Value	Conservation Status	Colour Code
9 – 12	High	Dark Green
7 – 8	Medium High	Light Green
5 – 6	Medium Low	Dark Yellow
0 – 4	Low	Light Yellow

The following attributes were also noted but did not contribute to the conservation value score:

- width of road reserve;
- width of vegetated roadside;
- presence of utilities/disturbances;
- general comments;
- presence of 6 nominated weeds; and
- fire risk.

It is felt that the recording of these attributes will provide a dataset capable of being used by a broad range of community land management interests.

1.2 Mapping Roadside Conservation Values

The RCC produced a computer-generated map (using a Geographic Information System, or GIS), at a scale of 1:100,000 for the Shire of Donnybrook-Balingup. Known as the Roadside Conservation Value map (RCV map), it depicts the conservation status of the roadside vegetation and the width of the road reserves within the Shire of Donnybrook-Balingup. The data used to produce both the map and the following figures and tables are presented in Appendix 2. Road names and length information can be found in Appendix 3.

Digital information was obtained from the Department of Environment and Conservation (DEC), Main Roads WA and the Department of Agriculture and Food WA and used in the map, depicting the location of remnant vegetation on both the Crown estate and privately owned land. Watercourses are also depicted on the RCV map.

1.3 Roadside Conservation Value Categories

High conservation value roadsides are those with a score between 9 and 12, and generally display the following characteristics:

- intact natural structure consisting of a number of layers, i.e. ground, shrub, tree layers;
- extent of native vegetation greater than 80%, i.e. little or no disturbance;
- high diversity of native flora, i.e. greater than 20 different species;
- few weeds, i.e. less than 20% of the total plants; and
- high value as a biological corridor, i.e. may connect uncleared areas, contain flowering shrubs, tree hollows and/or hollow logs for habitat.

This high conservation value roadside in Wongan-Ballidu contains relatively intact, undisturbed and diverse remnant vegetation.
Photo K. Jackson.

Medium-high conservation value roadsides are those with a score between 7 and 8, and generally have the following characteristics:

- generally intact natural structure, with one layer disturbed or absent;
- extent of native vegetation between 20 and 80%;
- medium to high diversity of native flora, i.e. between 6 and 19 species;
- few to half weeds, i.e. between 20 and 80% of the total plants; and
- medium to high value as a biological corridor.

Medium-high conservation value roadsides contains a moderate number of native species, some disturbance and weed invasion, but have relatively intact natural structure. Photo RCC.

Medium-low conservation value roadsides are those with a score between 5 and 6, and generally have the following characteristics:

- natural structure disturbed, i.e. one or more vegetation layers absent;
- extent of native vegetation between 20 and 80%;
- medium to low diversity of native flora, i.e. between 0 and 5 species;
- half to mostly weeds, i.e. between 20-80% of total plants; and
- medium to low value as a biological corridor.

Medium-low conservation value roadsides may contain Declared Rare Flora (DRF). Photo by RCC

Low conservation value roadsides are those with a score between 0 and 4, and generally have the following characteristics:

- no natural structure i.e. two or more vegetation layers absent;
- low extent of native vegetation, i.e. less than 20%;
- low diversity of native flora, i.e. between 0 and 5 different species;
- mostly weeds, i.e. more than 80% of total plants, or ground layer totally weeds; and
- low value as a biological corridor.

Low conservation value roadsides are typically dominated by weeds and have little or no native vegetation. Photo by K. Jackson.

2.0 USING THE ROADSIDE CONSERVATION VALUE MAP (RCV MAP)

The Roadside Conservation Value map (RCV map) initially provides an inventory of the condition of the roadside vegetation (Figure 1). This is important as the quality of roadside vegetation has far reaching implications for sustaining biodiversity, tourism and Landcare values.

Moreover, the data and map can be incorporated as a management and planning tool for managing the roadsides, as it enables the condition of roadside vegetation to be easily assessed. This information can then be used to identify environmentally sensitive areas, high conservation roadsides or strategically important areas, and thus ensure their conservation. Conversely, it enables degraded areas to be identified as areas important for strategic rehabilitation or in need of specific management techniques or weed control programs.

The map can also be used as a reference to overlay transparencies of other information relevant to roadside conservation. This enables the roadside vegetation to be assessed in the context of its importance to the Shire's overall conservation network. Other overlays, such as the degree of weed infestation, or the location of environmentally sensitive areas or future planned developments, could also be produced as an aid to roadside management.

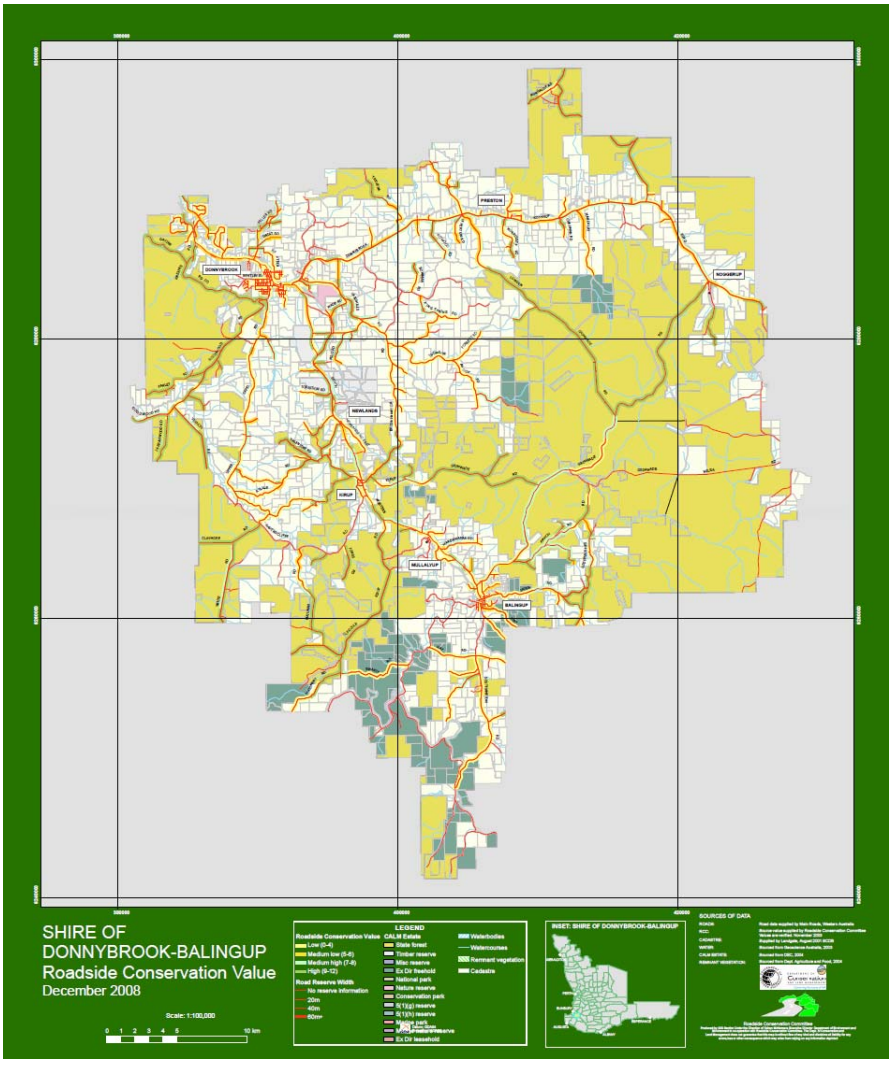


Figure 1. Roadside Conservation Map of Donnybrook-Balingup.

As well as providing a road reserve planning and management tool, the RCV map can also be used for developing:

- Regional or District fire management plans;
- Landcare and/or Bushcare projects that would be able to incorporate the information from this survey into 'whole of' landscape projects; and
- Tourist Routes, i.e. roads depicted as high conservation value would provide visitors to the district with an insight to the flora of the district.

Weed control along a roadside.
Photo MRWA

Catchment recovery projects, such as revegetation programs can utilise the information conveyed on roadside conservation value maps.
Photo by RCC

The road manager can declare high conservation value roads as Flora Roads.
Photo by D. Lamont.

The survey data and map can be used in developing regional or district fire management plans.
Photo by DEC

3.0 RESULTS

Using the information collected by the roadside survey, totals of the attributes used to calculate roadside conservation values in the Shire of Donnybrook-Balingup are presented in Table 3. The survey data has been combined to provide the total kilometres and percentages of roadside occupied by each of the conservation status categories and the attributes used to calculate the conservation values. As roadsides occur on both sides of the road, roadside distances (km) are equal to *twice* the actual distance of road travelled.

Summary Information: Shire of Donnybrook-Balingup

Length of roadsides surveyed: 1167.60km (583.80 km of road)

Roadside Conservation Status

	Total (km)	(%)
High (9-12)	411.0	35.2
Medium-high (7-8)	157.1	13.5
Medium-low (5-6)	95.1	8.1
Low (0-4)	504.4	43.2
Total	1167.6	100.0

Native Vegetation in Roadsides

	Total (km)	(%)
2-3 vegetation layers	593.1	50.8
1 vegetation layer	260.9	22.3
0 vegetation layers	313.6	26.9
Total	1167.6	100.0

Number of Native Plant Species

	Total (km)	(%)
Over 20 species	484.0	41.5
6 to 19 species	183.7	15.7
0 to 5 species	499.9	42.8
Total	1167.6	100.0

Predominant Adjoining Land Use

	Total (km)	(%)
Agricultural: completely cleared	273.4	23.4
Agricultural: scattered vegetation	314.5	26.9
Uncleared native vegetation	393.6	33.7
Drain	1.4	0.1
Plantation of non-natives	71.8	6.2
Railway	34.0	2.9
Urban or Industrial	78.9	6.8
Total	1167.6	100.0

Weed Infestation

	Total (km)	(%)
Light <20% weeds	497.4	42.6
Medium 20-80% weeds	299.3	25.6
Heavy >80% weeds	370.9	31.8
Total	1167.6	100.0

Roadside Conservation Values

Score	Total (km)	(%)
0	17.5	1.5
1	185.8	15.9
2	131.4	11.3
3	103.2	8.8
4	66.6	5.7
5	48.7	4.2
6	46.4	4.0
7	56.2	4.8
8	100.9	8.6
9	74.2	6.4
10	313.4	26.8
11	20.3	1.7
12	3.0	0.3
Total	1167.6	100.0

Width of Vegetated Roadside

	Total (km)	(%)
1 to 5 m	677.4	58.0
5 to 20 m	88.1	7.6
Over 20 m	320.4	27.4
Unknown	81.7	7.0
Total	1167.6	100.0

Extent of Native Vegetation

	Total (km)	(%)
Over 80%	395.1	33.8
20% to 80%	264.8	22.7
Less than 20%	507.7	43.5
Total	1167.6	100.0

Value as a Biological Corridor

	Total (km)	(%)
High	416.5	35.7
Medium	143.4	12.3
Low	607.7	52.0
Total	1167.6	100.0

Table 3. Summary of results from the roadside survey in the Shire of Donnybrook-Balingup

Width of Road Reserve

The width of road reserves in the Shire of Donnybrook-Balingup was recorded in increments of 20 metres (Table 4). The majority of road reserves were 20 metres in width, with 306.79km (52.55%) of roads falling into this category. Reserves of 40m covered 53.02km (9.08%) and roads where the reserve width was Unknown covered 164.89km (28.25%).

Width of Road Reserve - Donnybrook-Balingup		
	Total km	%
20 m	306.79	52.55
40 m	53.02	9.08
Unknown	223.98	38.37
Total	583.8	100.00

Table 4. Width of road reserves in the Shire of Donnybrook-Balingup.

Width of Vegetated Road Reserve

The width of vegetated roadside was recorded by selecting one of three categories, 1-5 metres, 5-20 metres or over 20 metres in width. The left and right hand sides were recorded independently, and then combined to establish the total figures (Table 5). The majority of roadside vegetation, 677.36km (58.01%), was between 1 to 5 metres in width, followed by 320.37km (27.44%) of roadsides where the width of vegetation was over 20 metres in width. Roadside vegetation between 5 and 20 metres in width spanned 88.16km (7.55%) of the roadsides surveyed, whilst the width was unknown for 81.69km (7.00%) of the roadsides surveyed.

Width of Vegetated Roadside - Donnybrook-Balingup		
	Total km	%
1-5 m	677.36	58.01
5-20 m	88.16	7.55
Over 20 m	320.37	27.44
Unknown	81.71	7.00
Total	1167.60	100.00

Table 5. Width of vegetation on roadsides in the Shire of Donnybrook-Balingup.

Native Vegetation on Roadsides

The number of native vegetation layers present, i.e. tree, shrub and/or ground layers, determined the 'native vegetation on roadside' value. Sections with two to three layers of native vegetation covered 50.8% (593.11km) of roadsides, 22.3% (260.93km) of roadsides had only one layer and 26.9% (313.54km) had no layers of native vegetation (Table 3 and Figure 2).

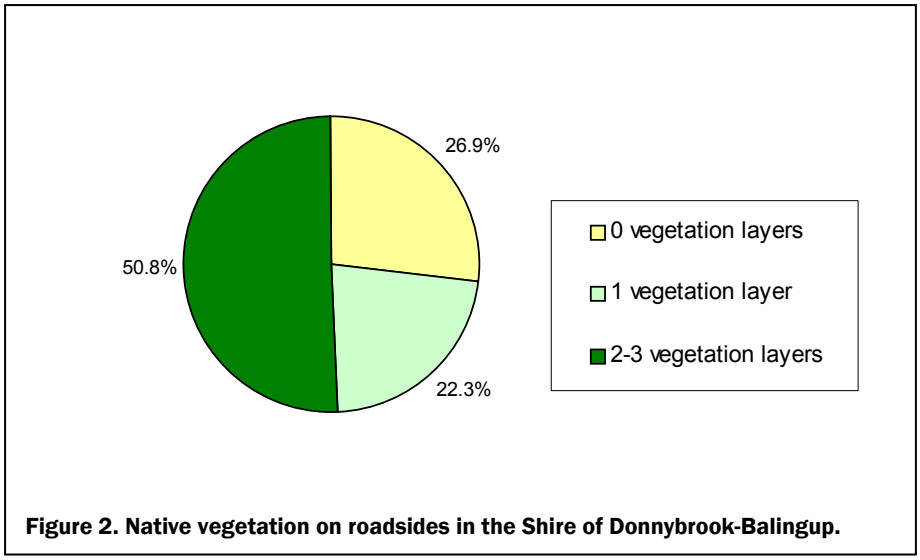


Figure 2. Native vegetation on roadsides in the Shire of Donnybrook-Balingup.

Number of Native Plant Species

The number of native plant species provides a measure of the diversity of the roadside vegetation. Survey sections with over 20 plant species spanned 41.5% (484.01km) of the roadsides surveyed. Roadside sections with 6 to 19 plant species accounted for 15.7% (183.66km) of the roadside. Roadside sections with 0 to 5 plant species account for 42.8% (499.91km)(Table 3 and Figure 3).

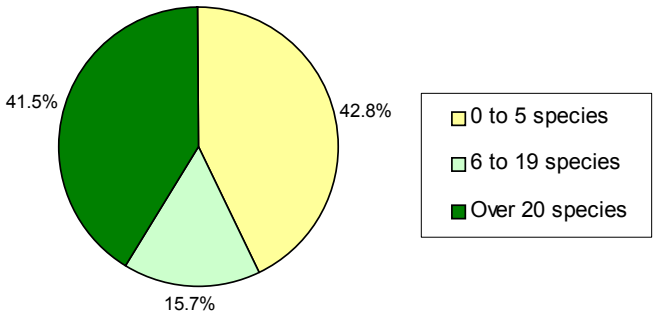


Figure 3. Number of native plant species in roadsides in the Shire of Donnybrook-Balingup.

Extent of Native Vegetation

The 'extent of native vegetation' cover refers to the continuity of the roadside vegetation and takes into account the presence of disturbances such as weeds. Roadsides with extensive vegetation cover, i.e. greater than 80%, occurred along 33.8% (395.08km) of the roadsides surveyed. Survey sections with medium vegetation cover, i.e. 20% to 80%, accounted for 22.7% (264.78km) of the roadsides. The remaining 43.5% (507.72km) had less than 20% native vegetation and therefore a low 'extent of native vegetation' value (Table 3 and Figure 4).

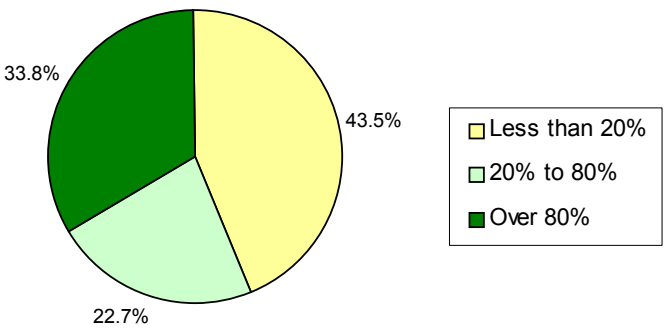


Figure 4. Extent of native vegetation in roadsides in the Shire of Donnybrook-Balingup.

Value as a Biological Corridor

This characteristic considered the presence of four attributes: connection of uncleared areas; presence of flowering shrubs; presence of large trees with hollows; and presence of hollow logs. Roadsides determined to have high value as a biological corridor were present along 35.7% (416.47km) of the roadsides surveyed. Roadsides with medium value as biological corridors made up 12.3% (143.39km), and roadsides with low value as a biological corridor occurred along 52.0% (607.72km) of the roadsides surveyed (Table 3 and Figure 5).

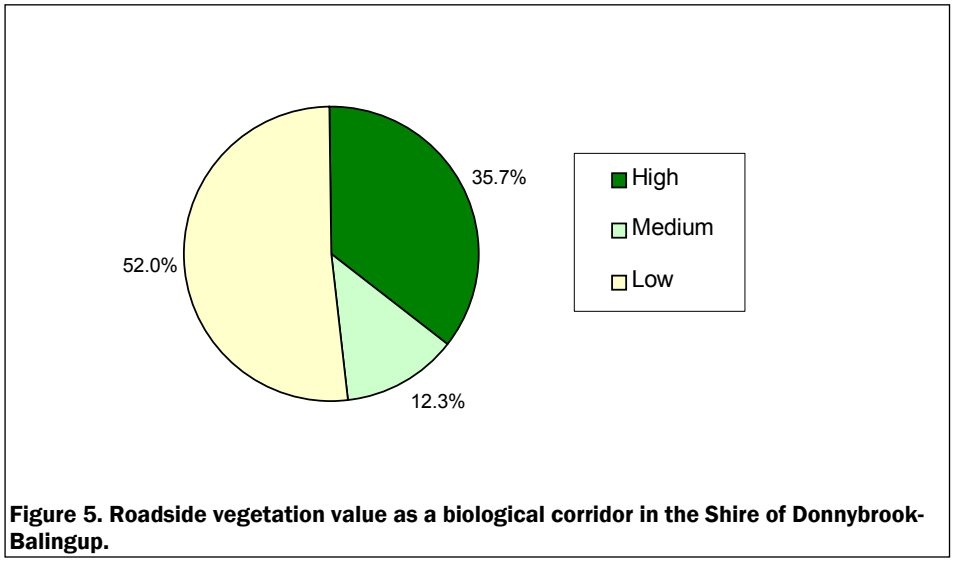


Figure 5. Roadside vegetation value as a biological corridor in the Shire of Donnybrook-Balingup.

Weed Infestation

Light levels of weed infestation (weeds comprising less than 20% of total plants), were recorded on 42.6% (497.39km) of the roadsides surveyed, medium level weed infestation (weeds comprising 20-80% of the total plants) occurred on 25.6% (299.26km) of the roadsides and 31.8% of roadsides (370.93km) were heavily infested with weeds (weeds comprising more than 80% of the total plants) (Table 3 and Figure 6).

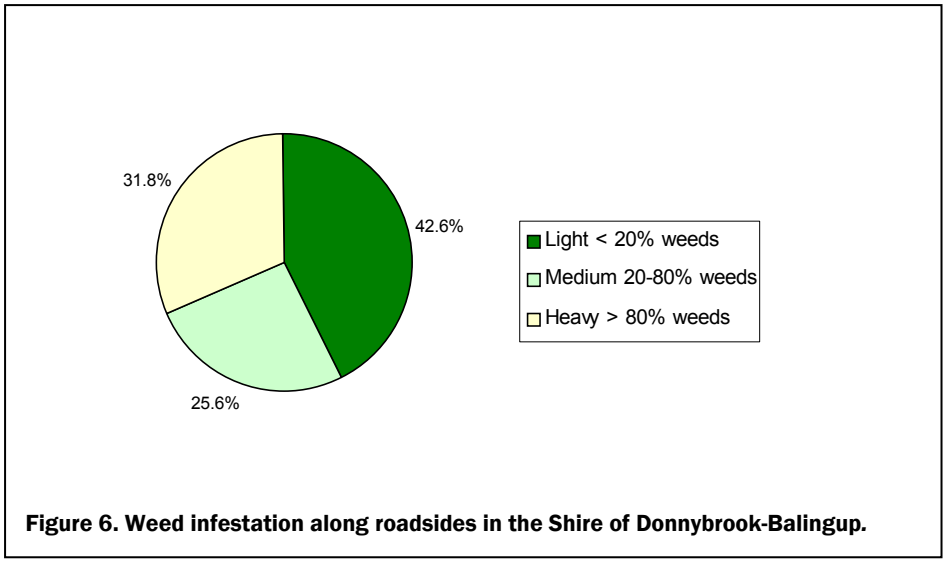


Figure 6. Weed infestation along roadsides in the Shire of Donnybrook-Balingup.

Predominant Adjoining Land Use

Uncleared native vegetation was present on 33.7% (393.60km) of the land adjoining roadsides, whilst 23.4% (273.38km) of roadsides adjoined land that had been completely cleared for agriculture. Land cleared for agriculture, containing a scattered distribution of native vegetation comprised 26.9% (314.45km) of the roadsides. Railway reserves adjoined 2.9% (34.0km) of the roadsides, urban or industrial land uses adjoined 6.8% (78.94km). Plantations of non-native flora were found on 6.2% (71.81km) of roadside and Drain reserves were recorded on 0.1% (1.40km) (Table 3 and Figure 7).

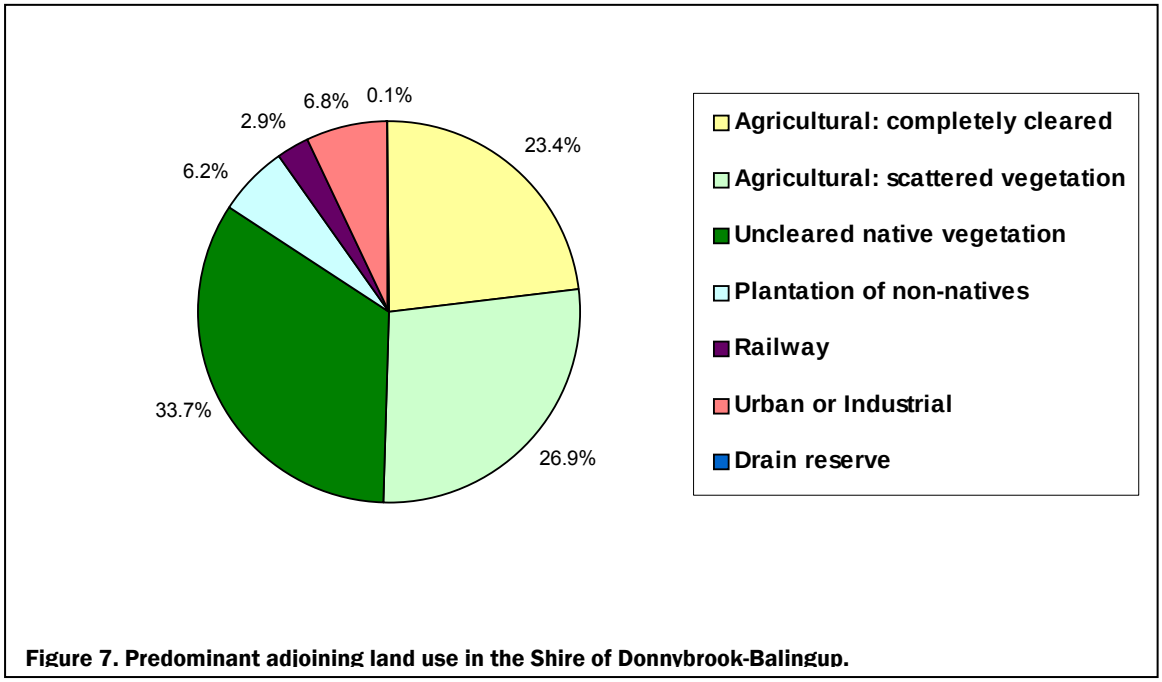


Figure 7. Predominant adjoining land use in the Shire of Donnybrook-Balingup.

Nominated Weeds

The following weeds are depicted on clear overlays accompanying the 2008 Roadside Conservation Value map:

- Blackberry (*Solanum nigrum*);
- Bridal Creeper (*Asparagus asparagoides*);
- Watsonia (*Watsonia* sp.);
- African Lovegrass (*Eragrostis curvula*);
- Wild Radish (*Raphanus raphanistrum*); and
- Tree weeds (eg: Black Wattle, Pines, Willows etc).

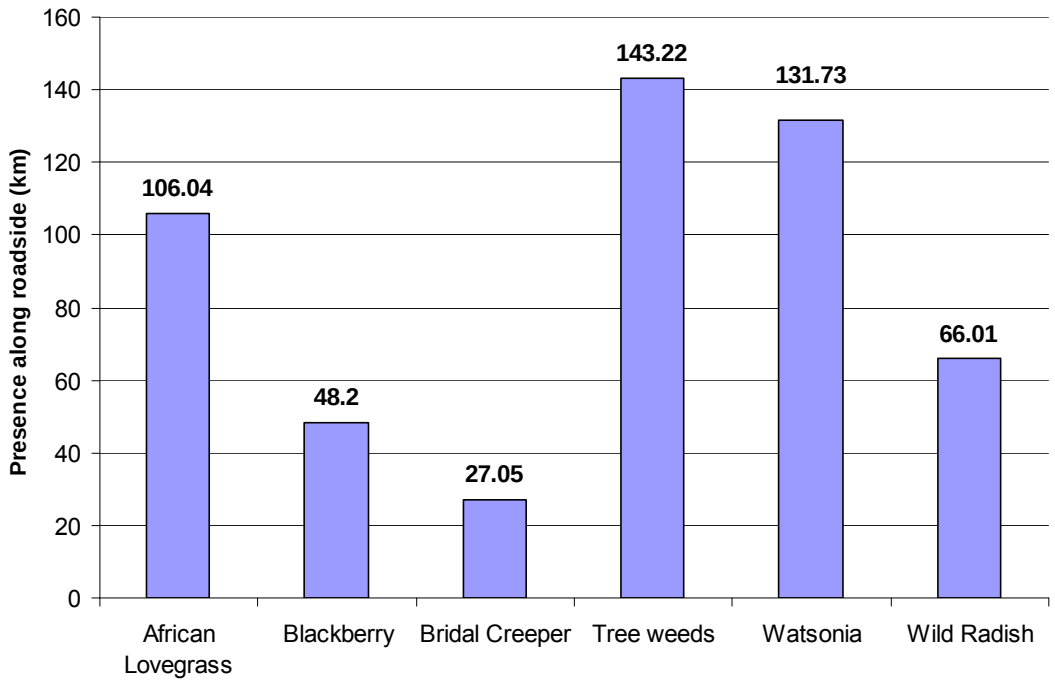
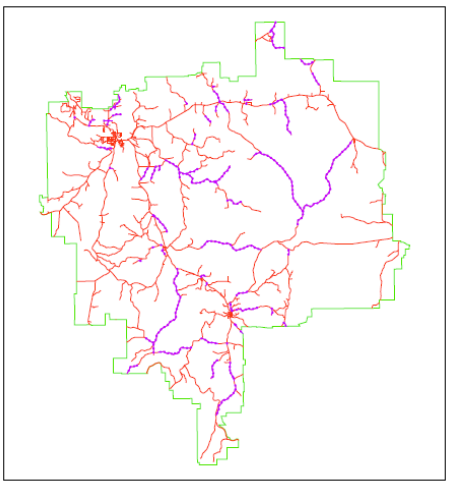


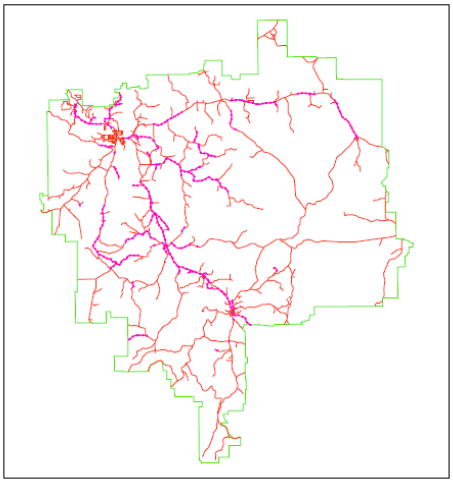
Figure 8. Presence of nominated weed groups along roads in the Shire of Donnybrook-Balingup.

These weeds were only recorded as being present or absent in each roadside section. The density of weed infestations was not recorded and nor was there a separate recording for the left and right sides of the roads. Figure 8 displays the proportion of roads (expressed as a percentage of the total length of surveyed roads) that contain each weed. As such, this length provides a general indication of the extent of each weeds presence in the Shire's roadsides.

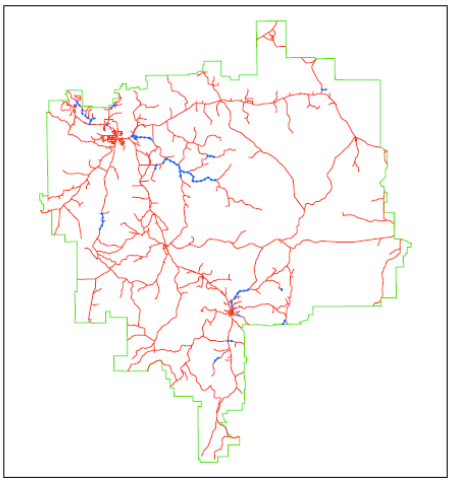
Of the nominated weeds species, Tree weeds were the most prevalent, and were found to occur on 143.22km of the roads surveyed. The next most commonly occurring weeds were Watsonia and African Lovegrass, which were present along 131.73km and 106.04km of roads respectively. Wild Radish was found to inhabit 66.01km of road reserves and Blackberry was found on 48.2km. Finally Bridal Creeper was recorded on 27.05km of road reserves within the Shire (Figure 8). The maps in Figure 9 indicate which roadside sections contained each of the nominated weed species.



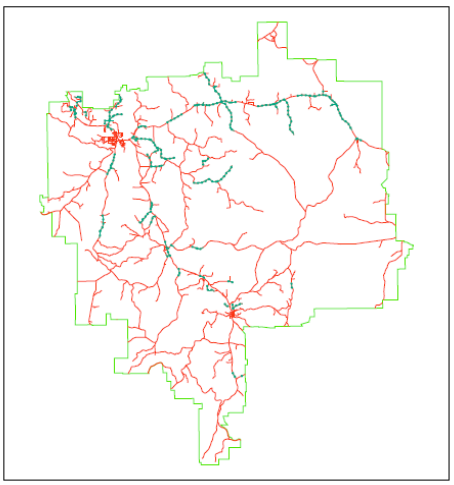
Tree Weeds



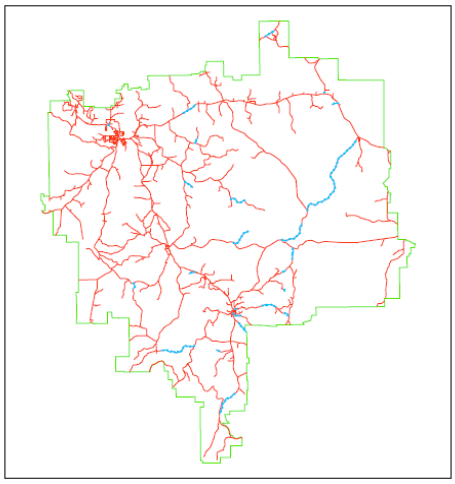
Watsonia



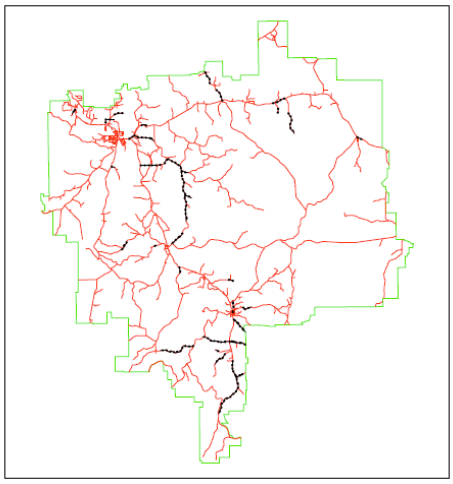
Bridal Creeper



African Lovegrass



Blackberry



Wild Radish

Figure 9. Spatial extent of nominated weeds of roadsides in the Shire of Donnybrook-Balingup.

Conservation Value Scores

Conservation value scores were calculated for each section of roadside surveyed. Scores range from 0 to 12, from lowest to highest conservation value respectively (Figure 10). The most occurring roadside conservation value score was 10, with 313.4km of roadsides recording this score. Following this, 185.8km of roadsides recorded a score of 1, 131.4km recorded a score of 2 and 103.2km recorded a score of 3. 100.9km of roadsides had a score of 8, 74.2km recorded a score of 9, and 66.6km of roadsides had a score of 4. 56.2km recorded a score of 7, 48.7km recorded a score of 5 and 46.4km of roadsides recorded a score of 6. 20.3km recorded a high of 11, 17.5km had a score of 0 and 3.0km of roadsides recorded a score of 12.

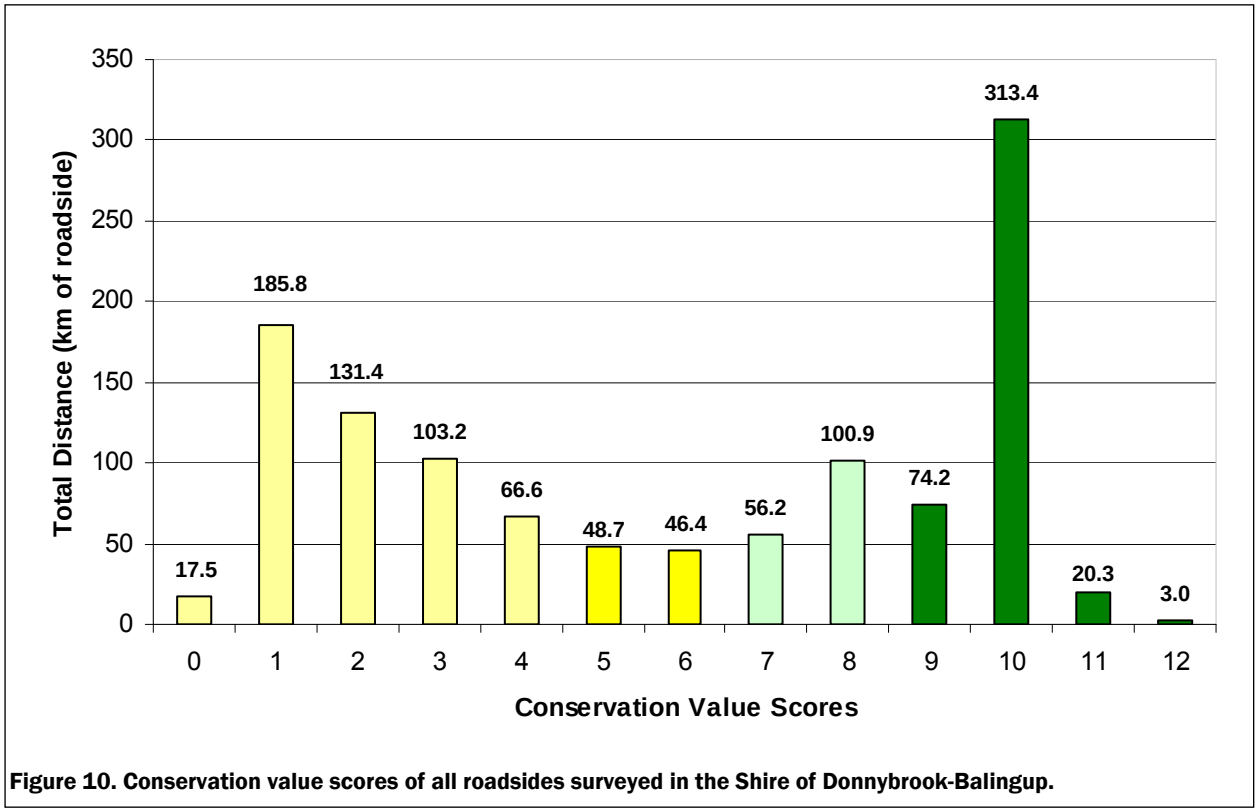


Figure 10. Conservation value scores of all roadsides surveyed in the Shire of Donnybrook-Balingup.

Conservation Status

The conservation status category indicates the combined conservation value of roadsides surveyed in the Shire of Donnybrook-Balingup. Roadside sections of high conservation value covered 35.2% (411.03km) of the roadsides surveyed. Medium-high conservation value roadsides accounted for 13.5% of the total surveyed (157.07km), medium-low conservation roadside covered 8.1% (95.07km) of the total roadsides surveyed. Roadsides of low conservation value occupied 43.2% (504.41km) of the roadsides surveyed (Table 3 and Figure 11).

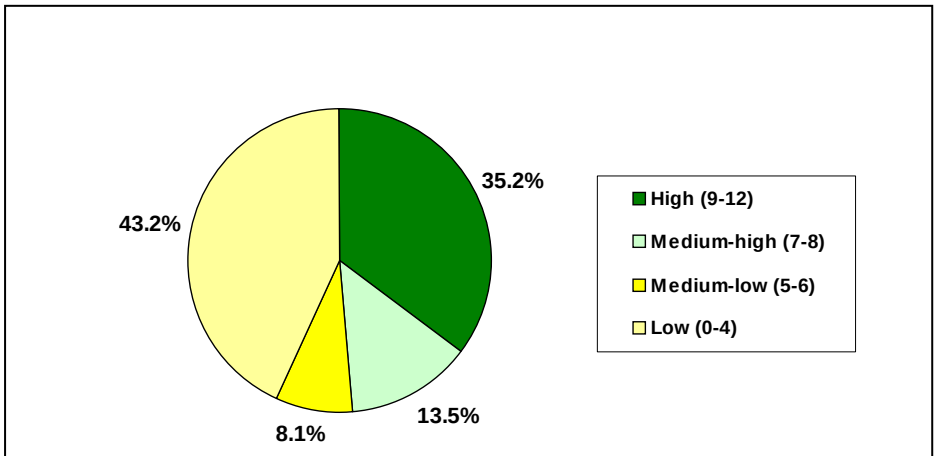


Figure 11. Conservation status of roadsides in the Shire of Donnybrook-Balingup.

Flora Roads

A Flora Road is one which has special conservation value because of the vegetation contained within the road reserve. The Roadside Conservation Committee has prepared *Guidelines for the Nomination and Management of Flora Roads* (Appendix 7).

Although presently there are no Flora Roads designated within the Shire of Donnybrook-Balingup, the roadside survey and the 2008 RCV map highlighted a number of roadsides that have the potential to be declared as Flora Roads. Roadsides, or large sections of roadsides, determined as having high conservation value in the Shire of Donnybrook-Balingup include:

- Prowse Road;
- Knights Road;
- Jarrahwood Road;
- Claymore Road; and
- Parts of Lowden Grimwade Road.

PART D

ROADSIDE MANAGEMENT RECOMMENDATIONS

1.0 Management Recommendations

The primary aim of road management is the creation and maintenance of a safe, efficient road system. However, there are often important conservation values within the road reserve and thus this section provides general management procedures and recommendations that will assist in retaining and enhancing roadside conservation values.

The Executive Officer of the Roadside Conservation Committee is also available to provide assistance on all roadside conservation matters, and can be contacted on (08) 9334 0423. The following RCC publications provide guidelines and management recommendations that will assist Local Government Authorities:

- Guidelines for Managing Special Environmental Areas in Transport Corridors; and
- Handbook of Environmental Practice for Road Construction and Maintenance Works.

1.1 Protect high conservation value roadsides by maintaining and enhancing the native plant communities. This can be achieved by:

- retaining remnant vegetation;
- minimising disturbance to existing roadside vegetation;
- minimising disturbance to soil; and
- preventing or controlling the introduction of weeds.

1.2. Promote and raise awareness of the conservation value associated with roadside vegetation by:

- establishing a register of Shire roads important for conservation;
- declaring suitable roadsides as Flora Roads; and
- incorporating them into tourist, wildflower and/or scenic drives.

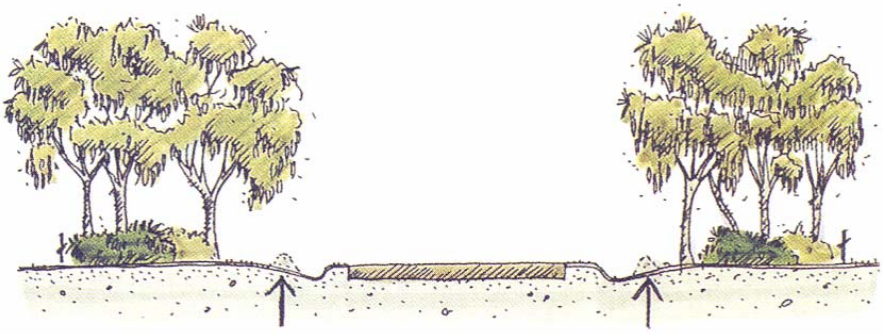
1.3 Improve roadside sections of medium to low conservation value by:

- minimising disturbance caused by machinery, adjoining land practices and incidences of fire;
- carrying out a targeted weed control program;
- retaining remnant trees and shrubs;
- allowing natural regeneration;
- spreading local native seed to encourage regeneration; and
- encouraging revegetation projects by adjacent landholders.

2.0 Minimising Disturbance

Minimal disturbance can be achieved by:

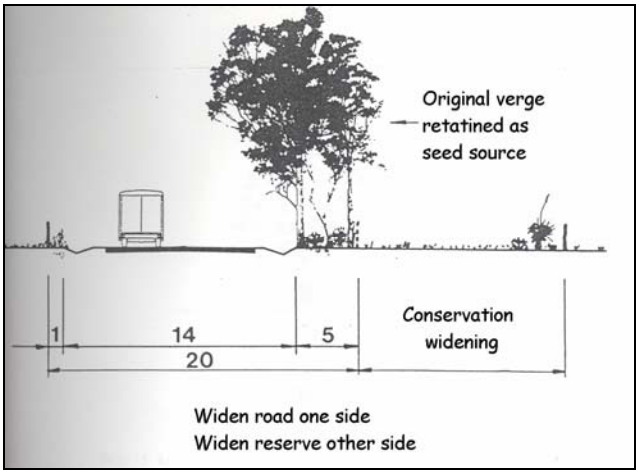
- adopting a road design that occupies the minimum space;
- diverting the line of a table drain to avoid disturbing valuable flora;
- pruning branches, rather than removing the whole tree or shrub;
- not dumping spoil on areas of native flora;
- applying the Fire Threat Assessment (see RCC Roadside Manual) before burning roadside vegetation, using methods other than fuel reduction burns to reduce fire threat;
- encouraging adjacent landholders to set back fences to allow roadside vegetation to proliferate;
- encouraging adjacent landholders to plant windbreaks or farm tree lots adjacent to roadside vegetation to create a denser windbreak or shelterbelt; and
- encouraging revegetation projects by adjacent landholders.



Avoid windrowing drain material into vegetation

Below right: Widening a road to one side only so that a wider section of roadside vegetation is retained on the other side of the road reserve.

Above: A high value road reserve in Tammin. The road was built on adjoining farmland in order to retain the important remnant bushland existing in the undeveloped road reserve.



3.0 Planning for Roadsides

The RCC is able to provide comprehensive models of Roadside Management Plans and encourages all Shires to adopt this practice of planning for roadside conservation.

The following actions greatly enhance likelihood of a plan that changes behaviour and results in on-ground actions:

- Community support - encourage ongoing community involvement and commitment by establishing a local Roadside Advisory Committee or working group within the Shire Environmental Committee;
- Contract specifications - maintain roadside values by developing environmental specifications for inclusion in all tender documents or work practices;
- Community education - use of innovative and pertinent material can increase community understanding of roadside values; and
- Training - promote local roadside planning initiatives and gain acceptance and understanding by involving Shire staff, contractors, utility provider staff and the community in workshops, seminars or training days. The Roadside Conservation Committee can provide this training.

Training develops recognition and understanding of roadside values and highlights best work practices. Workshops are developed to ensure that local issues and environments are dealt with and they include site visits to high conservation remnants, current projects and works. For training enquiries please contact the RCC Executive Officer on (08) 9334 0423.

4.0 Setting Objectives

The objective of all roadside management should be to:

- **Protect**
  - native vegetation
  - rare or threatened flora or fauna
  - cultural and heritage values
  - community assets from fire
- **Maintain**
  - safe function of the road
  - native vegetation communities
  - fauna habitats and corridors
  - visual amenity and landscape qualities
  - water quality
- **Minimise**
  - land degradation
  - spread of weeds and vermin
  - spread of soil borne pathogens
  - risk and impact of fire
  - disturbance during installation and maintenance of service assets
- **Enhance**
  - indigenous vegetation communities
  - fauna habitats and corridors

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Appendix

1

SURVEY TO DETERMINE THE CONSERVATION VALUE OF ROADSIDES IN THE SHIRE OF _____

Roadside Conservation Committee
C/- Locked Bag 104
Bentley Delivery Centre WA 6983

Phone: (08) 9334 0423
Fax: (08) 9334 0199

Date _____
Observer(s) _____
Road Name _____
Shire _____
Nearest named place _____
Direction of travel _____
Section No. _____
Starting Point _____
Odometer reading _____
Ending Point _____
Odometer reading _____
Length of Section _____

WIDTH OF ROAD RESERVE (m) _____

Side of the road	Left	Right
WIDTH OF VEGETATED ROADSIDE		
1 – 5 m	☐	☐
5 – 20 m	☐	☐
Over 20m	☐	☐
NATIVE VEGETATION ON ROADSIDE		
Tree layer	☐	☐
Shrub layer	☐	☐
Ground layer	☐	☐
EXTENT OF NATIVE VEGETATION ON ROADSIDE		
Less than 20%	☐	☐
20 – 80%	☐	☐
Over 80%	☐	☐

No. OF DIFFERENT NATIVE SPECIES

0 – 5	☐	☐
6 – 19	☐	☐
Over 20	☐	☐

VALUE AS A BIOLOGICAL CORRIDOR

Connects uncleared areas	☐	☐
Flowering shrubs	☐	☐
Large trees with hollows	☐	☐
Hollow logs	☐	☐

PREDOMINANT ADJOINING LANDUSE

Agricultural crop or pasture:		
- Completely cleared	☐	☐
- Scattered	☐	☐
Uncleared land	☐	☐
Plantation of non-native trees	☐	☐
Urban or Industrial	☐	☐
Railway reserve parallel to road	☐	☐
Drain reserve parallel to road	☐	☐
Other:	☐	☐

UTILITIES

Utility Present	☐	☐
Utility Absent	☐	☐
Type:	☐	☐

GENERAL WEEDS

Few weeds (<20% total plants)	☐	☐
Half weeds (20 – 80% total)	☐	☐
Mostly weeds (>80% total)	☐	☐
Ground layer totally weeds	☐	☐

NOMINATED WEEDS

_____
<20% total weeds □ □
20 – 80% total weeds □ □
>80% total weeds □ □

_____
<20% total weeds □ □
20 – 80% total weeds □ □
>80% total weeds □ □

_____
<20% total weeds □ □
20 – 80% total weeds □ □
>80% total weeds □ □

_____
<20% total weeds □ □
20 – 80% total weeds □ □
>80% total weeds □ □

_____
<20% total weeds □ □
20 – 80% total weeds □ □
>80% total weeds □ □

_____
<20% total weeds □ □
20 – 80% total weeds □ □
>80% total weeds □ □

NOMINATED WILDCARD

OFFICE USE ONLY

Conservation value score ☐ ☐

Appendix

2

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170001	1	0	0.38	0.38	RESERVE ST	East	13/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170002	1	0	1.2	1.2	BENTLEY ST	West	13/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170003	1	0	1	1	COLLINS ST	South	13/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170004	1	0	1	1	EMERALD ST	South	13/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170005	1	0	1	1	THOMSON BROOK RD	East	13/11/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	WATSONIA WILD_RADISH BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170005	2	1	2.7	1.7	THOMSON BROOK RD	East	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	WATSONIA BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170005	3	2.7	5.9	3.2	THOMSON BROOK RD	East	13/11/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	WATSONIA AFRICAN_LOVEGRASS BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170005	4	5.9	6.1	0.2	THOMSON BROOK RD	East	13/11/2007	20	1	1	2	0	2	0	2	0	2	0	0	1	**9**	**2**	WATSONIA TREE_WEEDS FIRE_RISK
2170005	5	6.1	6.6	0.5	THOMSON BROOK RD	East	13/11/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	WATSONIA TREE_WEEDS FIRE_RISK
2170005	6	6.6	8.6	2	THOMSON BROOK RD	East	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	WATSONIA FIRE_RISK
2170005	7	8.6	10.23	1.63	THOMSON BROOK RD	East	13/11/2007	20	1	1	0	0	0	0	0	0	1	1	1	1	**3**	**3**	FIRE_RISK
2170006	1	0	0.84	0.84	MARMION ST	West	13/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170007	1	0	0.8	0.8	UPPER CAPEL RD	North	13/11/2007	20	1	2	1	2	1	2	2	2	0	2	2	0	**7**	**10**	FIRE_RISK
2170007	2	0.8	1.2	0.4	UPPER CAPEL RD	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	0	**2**	**0**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170007	3	1.2	1.6	0.4	UPPER CAPEL RD	North	13/11/2007	20	1	2	0	0	1	1	1	1	0	2	2	1	**5**	**7**	AFRICAN_LOVEGRASS FIRE_RISK
2170007	4	1.6	2.1	0.5	UPPER CAPEL RD	North	13/11/2007	20	1	2	0	1	1	2	1	1	0	1	2	0	**5**	**7**	AFRICAN_LOVEGRASS FIRE_RISK
2170007	5	2.1	2.4	0.3	UPPER CAPEL RD	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS FIRE_RISK
2170007	6	2.4	2.7	0.3	UPPER CAPEL RD	North	13/11/2007	20	0	2	0	1	0	1	0	0	0	2	2	0	**2**	**6**	AFRICAN_LOVEGRASS FIRE_RISK
2170007	7	2.7	3.1	0.4	UPPER CAPEL RD	North	13/11/2007	unknown	2	0	0	0	0	0	0	0	0	0	2	1	**4**	**1**	AFRICAN_LOVEGRASS FIRE_RISK
2170007	8	3.1	3.7	0.6	UPPER CAPEL RD	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170007	9	3.7	4.3	0.6	UPPER CAPEL RD	North	13/11/2007	20	2	2	0	2	1	2	1	2	0	2	1	1	**5**	**11**	FIRE_RISK
2170007	10	4.3	6.9	2.6	UPPER CAPEL RD	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170007	11	6.9	8.3	1.4	UPPER CAPEL RD	North	13/11/2007	20	1	0	0	0	0	0	0	0	0	0	1	2	**2**	**2**	FIRE_RISK
2170007	12	8.3	9.4	1.1	UPPER CAPEL RD	North	13/11/2007	20	1	0	0	0	0	0	0	0	0	0	1	1	**2**	**1**	WATSONIA FIRE_RISK
2170007	13	9.4	11.6	2.2	UPPER CAPEL RD	North	13/11/2007	20	2	1	1	0	1	1	1	1	0	0	2	1	**7**	**4**	WATSONIA AFRICAN_LOVEGRASS BRIDAL_CREEPER FIRE_RISK
2170007	14	11.6	12.5	0.9	UPPER CAPEL RD	North	13/11/2007	unknown	0	2	0	2	0	2	0	2	0	2	2	0	**2**	**10**	AFRICAN_LOVEGRASS FIRE_RISK
2170007	15	12.5	12.9	0.4	UPPER CAPEL RD	North	13/11/2007	20	2	0	1	0	1	0	1	0	1	0	2	2	**8**	**2**	WATSONIA FIRE_RISK
2170007	16	12.9	17.6	4.7	UPPER CAPEL RD	North	13/11/2007	20	1	0	0	0	0	0	0	0	0	0	2	2	**3**	**2**	WATSONIA FIRE_RISK
2170007	17	17.6	22	4.4	UPPER CAPEL RD	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA FIRE_RISK
2170007	18	22	22.5	0.5	UPPER CAPEL RD	North	13/11/2007	20	2	2	0	1	1	2	1	1	1	2	2	2	**7**	**10**	FIRE_RISK
2170007	19	22.5	22.8	0.3	UPPER CAPEL RD	North	13/11/2007	20	2	2	0	1	1	2	1	1	1	1	2	2	**7**	**9**	FIRE_RISK
2170007	20	22.8	23.2	0.4	UPPER CAPEL RD	North	13/11/2007	unknown	2	2	0	2	1	2	0	2	0	2	2	0	**5**	**10**	FIRE_RISK
2170007	21	23.2	25.1	1.9	UPPER CAPEL RD	North	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170007	22	25.1	25.4	0.3	UPPER CAPEL RD	North	13/11/2007	unknown	1	2	0	2	0	2	1	1	2	2	2	0	**6**	**9**	WATSONIA WILD_RADISH TREE_WEEDS FIRE_RISK
2170007	23	25.4	26.2	0.8	UPPER CAPEL RD	North	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170007	24	26.2	26.4	0.2	UPPER CAPEL RD	North	13/11/2007	unknown	0	2	0	1	0	2	0	1	0	2	2	0	**2**	**8**	WATSONIA TREE_WEEDS FIRE_RISK
2170007	25	26.4	26.9	0.5	UPPER CAPEL RD	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	
2170008	1	0	0.3	0.3	IRISHTOWN RD	East	3/10/2007	unknown	2	2	1	0	1	0	1	1	0	1	0	1	**5**	**5**	WATSONIA AFRICAN_LOVEGRASS BRIDAL_CREEPER BLACKBERRY FIRE_RISK
2170008	2	0.3	0.9	0.6	IRISHTOWN RD	East	3/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS TREE_WEEDS FIRE_RISK
2170008	3	0.9	2.53	1.63	IRISHTOWN RD	East	3/10/2007	20	2	2	0	0	0	0	1	0	2	2	2	2	**7**	**6**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170008	4	2.53	3.2	0.67	IRISHTOWN RD	East	3/10/2007	20	2	2	1	1	2	2	2	2	2	2	1	1	**10**	**10**	BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170008	5	3.2	4.14	0.94	IRISHTOWN RD	East	3/10/2007	20	2	2	1	1	2	2	1	1	2	2	1	1	**9**	**9**	WATSONIA FIRE_RISK
2170009	1	0	0.49	0.49	RAMSAY TCE	South East	3/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170010	1	0	0.96	0.96	BRIDGE ST	East	3/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170011	1	0	1.07	1.07	ALLNUTT ST	West	3/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170013	1	0	0.48	0.48	UNION ST	South	3/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170016	1	0	1.7	1.7	FERGUSON RD	North	1/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WILD_RADISH AFRICAN_LOVEGRASS TREE_WEEDS
2170016	2	1.7	2.2	0.5	FERGUSON RD	North	1/10/2007	20	2	2	2	2	1	1	2	2	0	0	2	2	**8**	**8**	AFRICAN_LOVEGRASS
2170016	3	2.2	2.4	0.2	FERGUSON RD	North	1/10/2007	20	2	2	2	2	2	2	2	2	2	2	2	2	**11**	**10**	AFRICAN_LOVEGRASS FIRE_RISK
2170016	4	2.4	3	0.6	FERGUSON RD	North	1/10/2007	20	2	2	1	1	2	1	2	0	1	2	2	2	**8**	**8**	FIRE_RISK
2170016	5	3	4.8	1.8	FERGUSON RD	North	1/10/2007	20	1	2	0	1	0	1	1	1	2	2	2	2	**6**	**8**	WILD_RADISH AFRICAN_LOVEGRASS FIRE_RISK
2170018	1	0	1.47	1.47	BROOKHAMPTON RD	North	15/10/2007	20	2	2	1	1	0	1	1	2	1	1	2	2	**7**	**9**	WILD_RADISH FIRE_RISK
2170018	2	1.47	2.78	1.31	BROOKHAMPTON RD	North	15/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	AFRICAN_LOVEGRASS WATSONIA WILD_RADISH FIRE_RISK
2170018	3	2.78	3.2	0.42	BROOKHAMPTON RD	North	15/10/2007	20	2	2	1	1	2	2	2	2	1	1	1	1	**9**	**9**	AFRICAN_LOVEGRASS AFRICAN_LOVEGRASS FIRE_RISK
2170018	4	3.2	4	0.8	BROOKHAMPTON RD	North	15/10/2007	20	1	0	1	0	0	0	0	0	0	0	1	1	**3**	**1**	WILD_RADISH WATSONIA BRIDAL_CREEPER FIRE_RISK
2170018	5	4	7.2	3.2	BROOKHAMPTON RD	North	15/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	1	**3**	**2**	WILD_RADISH TREE_WEEDS WATSONIA BRIDAL_CREEPER FIRE_RISK
2170018	6	7.2	7.6	0.4	BROOKHAMPTON RD	North	15/10/2007	20	1	1	0	0	1	1	1	1	0	0	1	0	**4**	**3**	BRIDAL_CREEPER FIRE_RISK
2170018	7	7.6	13	5.4	BROOKHAMPTON RD	North	15/10/2007	20	1	0	0	0	0	0	0	0	0	0	1	1	**2**	**1**	WILD_RADISH FIRE_RISK
2170018	8	13	13.4	0.4	BROOKHAMPTON RD	South	15/10/2007	20	2	2	1	2	1	2	2	2	1	1	1	0	**8**	**9**	WILD_RADISH FIRE_RISK
2170018	9	13.4	14.1	0.7	BROOKHAMPTON RD	South	15/10/2007	20	1	2	1	1	1	1	1	2	1	1	1	1	**6**	**8**	FIRE_RISK
2170018	10	14.1	14.7	0.6	BROOKHAMPTON RD	South	15/10/2007	20	2	2	2	2	2	2	2	2	2	2	2	2	**12**	**12**	FIRE_RISK
2170018	11	14.7	15.5	0.8	BROOKHAMPTON RD	South	15/10/2007	20	2	2	2	2	2	2	2	2	1	1	0	0	**9**	**9**	WATSONIA FIRE_RISK
2170018	12	15.5	16.2	0.7	BROOKHAMPTON RD	South	15/10/2007	20	2	2	1	1	2	2	1	1	2	2	2	2	**10**	**10**	WILD_RADISH FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170018	13	16.2	17.6	1.4	BROOKHAMPTON RD	South	15/10/2007	20	2	1	2	1	2	1	2	2	2	0	0	0	**10**	**5**	WILD_RADISH FIRE_RISK
2170018	14	17.6	17.6	0	BROOKHAMPTON RD	South	15/10/2007	20	2	2	2	2	2	2	2	2	2	2	2	2	**10**	**12**	AFRICAN_LOVEGRASS FIRE_RISK
2170018	15	17.6	18	0.4	BROOKHAMPTON RD	South	15/10/2007	20	2	2	2	2	2	2	2	2	2	2	2	2	**10**	**10**	FIRE_RISK
2170018	16	18	18.22	0.22	BROOKHAMPTON RD	South	15/10/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	AFRICAN_LOVEGRASS FIRE_RISK
2170019	1	0	2.3	2.3	SANDHILLS RD	South	15/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	AFRICAN_LOVEGRASS WATSONIA WILD_RADISH BRIDAL_CREEPER FIRE_RISK
2170019	2	2.3	2.77	0.47	SANDHILLS RD	South	15/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS WILD_RADISH BRIDAL_CREEPER FIRE_RISK
2170019	3	2.77	3.2	0.43	SANDHILLS RD	South	15/10/2007	20	1	1	1	0	1	0	1	0	2	0	0	2	**6**	**3**	AFRICAN_LOVEGRASS WATSONIA FIRE_RISK
2170019	4	3.2	5.8	2.6	SANDHILLS RD	South	15/10/2007	20	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	AFRICAN_LOVEGRASS FIRE_RISK
2170019	5	5.8	6.2	0.4	SANDHILLS RD	South	15/10/2007	20	2	1	1	1	1	1	1	1	0	0	0	0	**5**	**4**	AFRICAN_LOVEGRASS
2170020	1	0	0.7	0.7	HURST RD	North	2/10/2007	20	2	2	0	2	1	2	2	2	0	2	1	0	**6**	**10**	BRIDAL_CREEPER
2170020	2	0.7	0.9	0.2	HURST RD	North	2/10/2007	20	2	2	0	1	1	1	2	2	0	2	1	1	**6**	**9**	
2170020	3	0.9	1.3	0.4	HURST RD	North	2/10/2007	20	2	2	1	1	1	1	2	2	0	0	0	1	**6**	**7**	
2170020	4	1.3	2.3	1	HURST RD	North	2/10/2007	20	2	2	1	1	1	1	0	0	0	0	1	1	**5**	**5**	BRIDAL_CREEPER
2170020	5	2.3	2.8	0.5	HURST RD	North	2/10/2007	20	2	2	1	2	1	2	1	2	0	0	1	0	**6**	**8**	
2170020	6	2.8	2.9	0.1	HURST RD	North	2/10/2007	20	2	2	1	1	1	1	1	2	0	1	1	0	**6**	**7**	
2170020	7	2.9	3.99	1.09	HURST RD	North	2/10/2007	20	2	2	1	2	1	2	2	2	0	2	1	0	**7**	**10**	
2170021	1	0	0.34	0.34	CORA ST	South	2/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170022	1	0	0.79	0.79	CEMETERY RD	South	2/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170024	1	0	0.48	0.48	YELVERTON ST SOUTH	East	2/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170025	1	0	0.76	0.76	TRIGWELL ST	South	2/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170027	1	0	1.7	1.7	KING SPRING RD	East	2/10/2007	20	1	1	1	1	0	0	1	1	0	0	1	1	**4**	**4**	WATSONIA TREE_WEEDS
2170027	2	1.7	2.1	0.4	KING SPRING RD	East	2/10/2007	20	0	1	0	0	0	0	0	1	0	0	1	1	**1**	**3**	WATSONIA
2170027	3	2.1	2.5	0.4	KING SPRING RD	East	2/10/2007	20	1	0	1	0	1	0	1	0	0	0	1	1	**5**	**1**	
2170027	4	2.5	3	0.5	KING SPRING RD	East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS
2170027	5	3	3.3	0.3	KING SPRING RD	East	2/10/2007	20	1	1	0	0	0	0	0	0	1	1	1	1	**3**	**3**	AFRICAN_LOVEGRASS
2170027	6	3.3	4	0.7	KING SPRING RD	East	2/10/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	AFRICAN_LOVEGRASS

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170027	7	4	5.3	1.3	KING SPRING RD	East	2/10/2007	20	1	1	0	0	1	1	1	1	0	0	1	1	**4**	**4**	WATSONIA BRIDAL_CREEPER
2170027	8	5.3	5.7	0.4	KING SPRING RD	East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	
2170028	1	0	0.32	0.32	UNION ST SOUTH	South	2/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170029	1	0	2	2	LOWDEN GRIMWADE RD	South East	2/10/2007	20	1	1	1	1	1	1	1	1	0	0	1	1	**5**	**5**	AFRICAN_LOVEGRASS TREE_WEEDS FIRE_RISK
2170029	2	2	4	2	LOWDEN GRIMWADE RD	South East	2/10/2007	20	0	2	0	1	1	1	1	1	0	0	1	1	**3**	**6**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170029	3	4	4.3	0.3	LOWDEN GRIMWADE RD	South East	2/10/2007	20	0	0	0	0	1	0	1	1	0	0	1	0	**3**	**1**	AFRICAN_LOVEGRASS FIRE_RISK
2170029	4	4.3	4.7	0.4	LOWDEN GRIMWADE RD	South East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS FIRE_RISK
2170029	5	4.7	5.2	0.5	LOWDEN GRIMWADE RD	South East	2/10/2007	unknown	2	2	1	1	2	2	2	2	2	2	1	1	**10**	**10**	WATSONIA FIRE_RISK
2170029	6	5.2	8.9	3.7	LOWDEN GRIMWADE RD	South East	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170029	7	8.9	9.5	0.6	LOWDEN GRIMWADE RD	South East	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	1	**10**	**11**	FIRE_RISK
2170029	8	9.5	19.7	10.2	LOWDEN GRIMWADE RD	South East	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	TREE_WEEDS FIRE_RISK
2170030	1	0	0.3	0.3	CHESTNUT DR	East	10/11/2007	20	0	1	0	0	0	0	0	0	0	0	0	1	**0**	**2**	WATSONIA TREE_WEEDS FIRE_RISK
2170030	2	0.3	3.05	2.75	CHESTNUT DR	East	10/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	1	**2**	**1**	WATSONIA TREE_WEEDS FIRE_RISK
2170031	1	0	1.35	1.35	BENDALL RD	North	2/10/2007	20	1	1	0	0	0	0	0	0	0	0	0	0	**1**	**1**	WATSONIA BRIDAL_CREEPER TREE_WEEDS
2170032	1	0	0.89	0.89	FLEET ST	South	2/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170034	1	0	1.5	1.5	FARLEY RD	North East	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170034	2	1.5	2.7	1.2	FARLEY RD	North East	13/11/2007	unknown	0	2	0	2	0	2	2	2	0	2	2	0	**4**	**10**	FIRE_RISK
2170034	3	2.7	4.96	2.26	FARLEY RD	North East	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170035	1	0	0.8	0.8	ATHERTON RD	South	13/11/2007	20	2	2	1	1	2	2	1	2	1	1	1	1	**8**	**9**	FIRE_RISK
2170035	2	0.8	1.5	0.7	ATHERTON RD	South	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	TREE_WEEDS FIRE_RISK
2170035	3	1.5	2.39	0.89	ATHERTON RD	South	13/11/2007	20	1	1	1	1	1	1	1	1	0	0	1	1	**5**	**5**	FIRE_RISK
2170036	1	0	1.9	1.9	OLD BROOKHAMPTON RD	South	13/11/2007	20	2	2	1	1	2	2	2	2	2	2	1	1	**10**	**10**	TREE_WEEDS

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170040	1	0	0.2	0.2	ARGYLE RD	North East	2/10/2007	20	2	2	1	0	1	1	1	1	1	1	1	0	**7**	**5**	WATSONIA AFRICAN_LOVEGRASS
2170040	2	0.2	0.9	0.7	ARGYLE RD	North East	2/10/2007	20	2	0	1	0	1	1	1	1	1	1	2	2	**8**	**5**	WATSONIA AFRICAN_LOVEGRASS
2170040	3	0.9	1.1	0.2	ARGYLE RD	North East	2/10/2007	20	1	0	0	0	0	0	0	0	0	0	2	2	**3**	**2**	
2170040	4	1.1	1.3	0.2	ARGYLE RD	North East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA BRIDAL_CREEPER
2170040	5	1.3	1.53	0.23	ARGYLE RD	North East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	0	**2**	**0**	AFRICAN_LOVEGRASS
2170041	1	0	0.2	0.2	JARRAHWOOD RD	South	29/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	2	0	**12**	**10**	FIRE_RISK
2170041	2	0.2	0.4	0.2	JARRAHWOOD RD	South	29/11/2007	unknown	2	0	2	0	2	0	2	2	2	0	0	1	**10**	**3**	FIRE_RISK
2170041	3	0.4	4	3.6	JARRAHWOOD RD	South	29/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170045	1	0	0.6	0.6	TREVENA RD	North	29/11/2007	20	2	2	1	1	1	1	1	1	0	0	2	2	**7**	**7**	FIRE_RISK
2170045	2	0.6	1	0.4	TREVENA RD	North	29/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
2170045	3	1	1.3	0.3	TREVENA RD	North	29/11/2007	20	1	1	1	1	1	1	1	1	0	0	1	1	**5**	**5**	FIRE_RISK
2170045	4	1.3	1.8	0.5	TREVENA RD	North	29/11/2007	20	0	0	0	0	0	0	1	1	0	0	1	1	**2**	**2**	TREE_WEEDS FIRE_RISK
2170045	5	1.8	2.1	0.3	TREVENA RD	North	29/11/2007	20	2	2	1	1	1	1	2	2	0	0	1	1	**7**	**7**	FIRE_RISK
2170045	6	2.1	2.9	0.8	TREVENA RD	North	29/11/2007	20	2	2	1	1	1	1	1	1	0	0	1	1	**6**	**6**	FIRE_RISK
2170045	7	2.9	3.4	0.5	TREVENA RD	North	29/11/2007	20	2	2	1	1	2	2	2	2	0	0	1	1	**8**	**8**	FIRE_RISK
2170045	8	3.4	3.8	0.4	TREVENA RD	North	29/11/2007	20	2	2	1	2	2	2	2	2	0	2	1	0	**8**	**10**	FIRE_RISK
2170045	9	3.8	5.5	1.7	TREVENA RD	North	29/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170046	1	0	2.1	2.1	MANDALAY RD	South	29/11/2007	20	1	1	0	0	0	0	1	1	1	1	2	2	**5**	**5**	AFRICAN_LOVEGRASS TREE_WEEDS FIRE_RISK
2170046	2	2.1	5.17	3.07	MANDALAY RD	South	29/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS WILD_RADISH TREE_WEEDS FIRE_RISK
2170047	1	0	0.31	0.31	NEEDES HILL RD	East	11/11/2007	unknown	2	2	0	2	0	2	1	1	1	2	2	0	**6**	**9**	AFRICAN_LOVEGRASS FIRE_RISK
2170047	2	0.31	0.58	0.27	NEEDES HILL RD	East	11/11/2007	unknown	0	2	0	2	1	2	0	1	0	2	2	0	**3**	**9**	AFRICAN_LOVEGRASS FIRE_RISK
2170047	3	0.58	0.83	0.25	NEEDES HILL RD	East	11/11/2007	unknown	0	1	0	1	1	1	0	0	0	2	2	2	**3**	**7**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170047	4	0.83	1.15	0.32	NEEDES HILL RD	East	11/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	AFRICAN_LOVEGRASS FIRE_RISK
2170048	1	0	0.7	0.7	ATWOOD RD	South	11/11/2007	20	2	2	1	1	1	1	1	1	2	2	2	1	**9**	**8**	
2170048	2	0.7	1.7	1	ATWOOD RD	South	11/11/2007	20	2	2	2	2	2	2	2	2	2	2	1	1	**11**	**11**	

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170048	3	1.7	2.6	0.9	ATWOOD RD	South	11/11/2007	20	2	2	1	1	2	2	1	1	0	0	1	1	**7**	**7**	TREE_WEEDS
2170048	4	2.6	2.8	0.2	ATWOOD RD	South	11/11/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	TREE_WEEDS
2170048	5	2.8	3.3	0.5	ATWOOD RD	South	11/11/2007	20	2	1	1	0	1	0	2	1	0	0	1	1	**7**	**3**	
2170049	1	0	0.3	0.3	BOWMAN RD	North	11/11/2007	20	1	0	0	0	0	0	0	0	0	0	1	1	**2**	**1**	WATSONIA BLACKBERRY TREE_WEEDS FIRE_RISK
2170049	2	0.3	0.8	0.5	BOWMAN RD	North	11/11/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	WATSONIA BLACKBERRY FIRE_RISK
2170049	3	0.8	1.4	0.6	BOWMAN RD	North	11/11/2007	20	0	1	0	0	0	0	0	0	0	0	1	1	**1**	**2**	WATSONIA TREE_WEEDS FIRE_RISK
2170049	4	1.4	2.25	0.85	BOWMAN RD	North	11/11/2007	20	2	2	1	1	2	2	2	2	2	2	0	1	**9**	**10**	FIRE_RISK
2170050	1	0	0.41	0.41	ELLIOTT ST	North	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170051	1	0.15	1.15	1	PUGSLEY RD	North	1/10/2007	20	1	0	0	0	0	0	2	2	1	0	2	2	**6**	**4**	
2170052	1	0	0.2	0.2	FOREST RD	North East	1/10/2007	20	1	2	1	1	1	1	1	1	0	0	1	0	**5**	**5**	
2170052	2	0.2	3.14	2.94	FOREST RD	North East	1/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS TREE_WEEDS
2170053	1	0	0.5	0.5	GOLDFIELDS	East	6/10/2007	20	1	1	0	0	1	1	0	0	1	1	2	2	**5**	**5**	TREE_WEEDS AFRICAN_LOVEGRASS WILD_RADISH
2170053	2	0.5	0.8	0.3	GOLDFIELDS	East	6/10/2007	20	2	0	1	0	1	0	0	0	0	0	2	2	**6**	**2**	WATSONIA
2170053	3	0.8	2.2	1.4	GOLDFIELDS	East	6/10/2007	20	2	2	1	1	2	2	1	1	1	1	1	1	**8**	**8**	WATSONIA FIRE_RISK
2170054	1	0	0.37	0.37	PRESTON PARK RD	North	6/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA FIRE_RISK
2170055	1	0	1.3	1.3	MARSHALL RD	West	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	FIRE_RISK
2170055	2	1.3	1.7	0.4	MARSHALL RD	West	2/10/2007	20	2	2	1	2	1	2	1	1	1	1	1	0	**7**	**8**	FIRE_RISK
2170055	3	1.7	2.75	1.05	MARSHALL RD	West	2/10/2007	20	1	1	0	0	0	1	1	1	1	1	1	1	**4**	**5**	
2170055	4	2.75	3	0.25	MARSHALL RD	West	2/10/2007	20	1	2	1	2	1	2	1	2	0	2	2	0	**6**	**10**	
2170055	5	3	3.25	0.25	MARSHALL RD	West	2/10/2007	20	2	2	2	2	1	2	2	2	1	2	0	0	**8**	**10**	FIRE_RISK
2170055	6	3.25	3.5	0.25	MARSHALL RD	West	2/10/2007	20	2	2	2	2	2	2	1	1	1	2	0	0	**8**	**9**	FIRE_RISK
2170055	7	3.5	4.28	0.78	MARSHALL RD	West	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS FIRE_RISK
2170056	1	0	0.97	0.97	TRIGWELL RD	North East	6/10/2007	0	1	1	0	0	1	1	0	0	2	2	1	1	**5**	**5**	FIRE_RISK
2170057	1	0	1	1	MITCHELL RD	West	6/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS FIRE_RISK
2170057	2	1	1.6	0.6	MITCHELL RD	West	6/10/2007	0	2	2	1	1	2	1	2	2	2	1	0	2	**9**	**9**	AFRICAN_LOVEGRASS FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170057	3	1.6	2.4	0.8	MITCHELL RD	West	6/10/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	AFRICAN_LOVEGRASS FIRE_RISK
2170057	4	2.4	3.37	0.97	MITCHELL RD	West	6/10/2007	0	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
2170059	1	0	0.6	0.6	DHU RD	South	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170059	2	0.6	0.82	0.22	DHU RD	South	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	2	1	**12**	**11**	FIRE_RISK
2170061	1	0	0.7	0.7	GRIST RD	South	13/11/2007	20	2	2	1	0	1	1	1	1	1	1	2	2	**8**	**7**	AFRICAN_LOVEGRASS FIRE_RISK
2170061	2	0.7	1.89	1.19	GRIST RD	South	13/11/2007	unknown	2	2	0	0	0	0	0	0	2	2	2	2	**6**	**6**	AFRICAN_LOVEGRASS WILD_RADISH TREE_WEEDS FIRE_RISK
2170065	1	0	2.18	2.18	TOWERS RD	East	13/11/2007	20	1	1	1	1	2	2	2	2	0	0	2	2	**8**	**8**	BLACKBERRY TREE_WEEDS FIRE_RISK
2170068	1	0	0.8	0.8	TASSONE RD	West	13/11/2007	20	2	1	2	1	2	1	2	1	2	1	0	1	**10**	**6**	FIRE_RISK
2170068	2	0.8	1.46	0.66	TASSONE RD	West	13/11/2007	20	2	1	0	0	2	2	0	0	2	1	2	2	**8**	**6**	WATSONIA FIRE_RISK
2170069	1	0	1.37	1.37	BYRON RD	South	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170069	2	1.37	1.74	0.37	BYRON RD	South	13/11/2007	0	2	2	2	2	2	2	2	2	2	2	1	0	**11**	**10**	WATSONIA FIRE_RISK
2170072	1	0	0.91	0.91	HOLM RD	East	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WILD_RADISH FIRE_RISK
2170073	1	0	0.76	0.76	GARDINER RD	North	13/11/2007	20	1	2	1	1	1	1	1	1	1	1	2	0	**7**	**6**	FIRE_RISK
2170074	1	0	1.2	1.2	YABBERUP RD	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170074	2	1.2	1.9	0.7	YABBERUP RD	North	13/11/2007	20	0	1	0	0	0	0	0	1	0	0	1	1	**1**	**3**	FIRE_RISK
2170076	1	0	0.36	0.36	GIUDICI RD	North	13/11/2007	20	1	1	1	1	0	0	1	1	0	0	2	2	**5**	**5**	FIRE_RISK
2170079	1	0	1	1	CHAMPMAN RD	South	13/11/2007	20	2	2	1	1	2	2	2	2	1	1	1	2	**9**	**10**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170079	2	1	1.61	0.61	CHAMPMAN RD	South	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	WILD_RADISH FIRE_RISK
2170080	1	0	1	1	FIELDS RD	West	13/11/2007	unknown	2	0	2	0	2	0	2	2	2	0	0	1	**10**	**3**	TREE_WEEDS FIRE_RISK
2170080	2	1	1.98	0.98	FIELDS RD	South West	13/11/2007	unknown	2	2	2	1	2	1	2	2	2	1	0	1	**10**	**8**	FIRE_RISK
2170086	1	0	0.5	0.5	GEMMEL RD	North East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	0	**1**	**0**	
2170086	2	0.5	1.2	0.7	GEMMEL RD	North East	2/10/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	BRIDAL_CREEPER
2170086	3	1.2	2.1	0.9	GEMMEL RD	North East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS
2170087	1	0	1.2	1.2	TORRIDON RD	West	6/10/2007	0	2	2	2	2	2	2	2	2	1	1	0	0	**9**	**9**	FIRE_RISK
2170087	2	1.2	2.37	1.17	TORRIDON RD	West	6/10/2007	0	1	1	0	0	0	0	0	0	0	0	0	0	**1**	**1**	FIRE_RISK
2170089	1	0	0.2	0.2	VERNON RD	South	29/11/2007	20	1	2	0	2	0	2	1	2	0	2	1	1	**3**	**11**	FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170089	2	0.2	0.6	0.4	VERNON RD	South	29/11/2007	0	1	2	0	2	0	2	1	2	0	2	1	0	**3**	**10**	FIRE_RISK
2170089	3	0.6	0.8	0.2	VERNON RD	South	29/11/2007	0	0	2	0	2	0	2	1	2	0	2	1	0	**2**	**10**	FIRE_RISK
2170089	4	0.8	2.4	1.6	VERNON RD	South	29/11/2007	0	2	2	1	2	1	2	2	2	1	2	1	0	**8**	**10**	FIRE_RISK
2170089	5	2.4	5.25	2.85	VERNON RD	South	29/11/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170096	1	0	1.31	1.31	LYONS RD	East	29/11/2007	20	0	1	0	0	0	0	0	0	0	0	1	1	**1**	**2**	BLACKBERRY FIRE_RISK
2170098	1	0	0.8	0.8	LEACH RD	South	29/11/2007	20	2	2	1	1	1	1	1	1	1	1	2	1	**8**	**7**	TREE_WEEDS
2170099	1	0	1.2	1.2	BENTLEY RD	East	29/11/2007	20	2	2	1	1	1	1	1	2	0	0	2	1	**7**	**7**	AFRICAN_LOVEGRASS FIRE_RISK
2170100	1	0	0.45	0.45	EGAN ACCESS RD		29/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170102	1	0	0.6	0.6	MORRISEY RD	South	29/11/2007	20	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170102	2	0.6	2.2	1.6	MORRISEY RD	South	29/11/2007	20	1	1	0	0	0	0	1	1	1	1	1	1	**4**	**4**	
2170102	3	2.2	3.5	1.3	MORRISEY RD	South	29/11/2007	20	2	2	1	1	2	2	2	2	1	1	1	1	**9**	**9**	
2170103	1	0	0.4	0.4	WADE RD	South	15/10/2007	0	0	1	0	1	1	1	0	1	0	0	1	0	**2**	**4**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170103	2	0.4	0.8	0.4	WADE RD	South	15/10/2007	0	2	2	1	1	2	2	2	2	1	1	2	2	**9**	**8**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170103	3	0.8	1.2	0.4	WADE RD	South	15/10/2007	0	2	2	1	1	2	2	2	2	0	0	2	2	**8**	**9**	AFRICAN_LOVEGRASS FIRE_RISK
2170103	4	1.2	1.6	0.4	WADE RD	South	15/10/2007	0	2	2	2	2	2	2	2	2	1	1	0	0	**9**	**9**	FIRE_RISK
2170103	5	1.6	2	0.4	WADE RD	South	15/10/2007	0	1	1	1	1	2	1	1	1	0	0	2	2	**6**	**6**	FIRE_RISK
2170103	6	2	2.6	0.6	WADE RD	South	15/10/2007	0	2	2	2	2	2	2	2	2	1	1	2	2	**10**	**10**	FIRE_RISK
2170103	7	2.6	3.19	0.59	WADE RD	South	15/10/2007	0	2	1	1	0	1	0	1	0	1	0	2	2	**8**	**3**	AFRICAN_LOVEGRASS FIRE_RISK
2170104	1	0	0.2	0.2	THOMSON RD	South	15/10/2007	20	2	2	1	2	2	2	2	2	1	1	1	1	**9**	**10**	
2170104	2	0.2	1.4	1.2	THOMSON RD	South	15/10/2007	20	1	1	0	0	1	1	2	2	0	0	1	0	**5**	**4**	
2170104	3	1.4	2.16	0.76	THOMSON RD	South	15/10/2007	20	2	2	2	2	2	2	2	2	2	2	1	1	**11**	**11**	FIRE_RISK
2170107	1	0	0.48	0.48	EGAN ST	South	15/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170108	1	0	0.58	0.58	SHORT ST	South	15/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170110	1	0	1.9	1.9	KELLY ST	North	15/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170112	1	0	0.76	0.76	TRIGWELL ST EAST	East	15/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170113	1	0	0.72	0.72	CAIN RD	East	15/10/2007	20	0	1	0	0	0	0	0	1	0	0	1	1	**1**	**3**	FIRE_RISK
2170114	1	0	0.23	0.23	HUNTER ST	North	15/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170116	1	0	0.2	0.2	BLIGH ST	South	15/10/2007	20	1	1	0	0	0	0	0	0	0	0	0	0	**1**	**1**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170117	1	0	1	1	RYALLS RD	West	6/10/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170117	2	1	3.37	2.37	RYALLS RD	West	6/10/2007	0	2	2	2	1	2	2	2	1	2	2	1	0	**11**	**8**	WATSONIA FIRE_RISK
2170117	3	3.37	4.9	1.53	RYALLS RD	West	6/10/2007	0	2	2	2	2	2	2	2	2	2	2	1	0	**11**	**10**	WATSONIA FIRE_RISK
2170117	4	4.9	6	1.1	RYALLS RD	West	6/10/2007	0	2	2	0	1	2	2	0	0	0	1	1	1	**5**	**7**	WATSONIA FIRE_RISK
2170117	5	6	6.6	0.6	RYALLS RD	West	6/10/2007	0	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	WILD_RADISH FIRE_RISK
2170117	6	6.6	7.4	0.8	RYALLS RD	West	6/10/2007	0	1	1	0	0	2	2	1	1	0	0	1	1	**5**	**5**	WILD_RADISH FIRE_RISK
2170117	7	7.4	8.1	0.7	RYALLS RD	West	6/10/2007	0	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170117	8	8.1	9.1	1	RYALLS RD	West	6/10/2007	0	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170117	9	9.1	10.3	1.2	RYALLS RD	West	6/10/2007	0	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170117	10	10.3	10.74	0.44	RYALLS RD	West	6/10/2007	0	2	0	1	0	2	0	1	0	0	0	1	1	**7**	**1**	FIRE_RISK
2170118	1	0	0.5	0.5	THOMAS RD	West	6/10/2007	20	1	2	0	1	0	2	0	2	0	2	1	1	**2**	**10**	FIRE_RISK
2170118	2	0.5	1.7	1.2	THOMAS RD	West	6/10/2007	20	1	0	0	0	0	0	1	1	1	0	1	1	**4**	**2**	FIRE_RISK
2170118	3	1.7	3.4	1.7	THOMAS RD	West	6/10/2007	20	1	1	0	0	0	0	1	1	1	1	1	1	**4**	**4**	FIRE_RISK
2170118	4	3.4	3.89	0.49	THOMAS RD	West	6/10/2007	20	2	2	1	0	2	1	2	1	1	0	1	1	**9**	**5**	
2170119	1	0	0.5	0.5	NIEUWENHUYZE RD	South West	6/10/2007	20	2	2	1	2	1	2	2	2	0	2	1	0	**7**	**10**	FIRE_RISK
2170119	2	0.5	0.9	0.4	NIEUWENHUYZE RD	South West	6/10/2007	20	0	2	0	2	0	2	1	2	0	2	1	0	**2**	**10**	TREE_WEEDS FIRE_RISK
2170119	3	0.9	1.69	0.79	NIEUWENHUYZE RD	South West	6/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170121	1	0	1.1	1.1	CLAYMORE RD	West	13/11/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WATSONIA FIRE_RISK
2170121	2	1.1	4.2	3.1	CLAYMORE RD	West	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170121	3	4.2	6	1.8	CLAYMORE RD	West	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	1	0	**11**	**10**	FIRE_RISK
2170123	1	0	0.3	0.3	WHITE RD	South	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170123	2	0.3	5	4.7	WHITE RD	South	13/11/2007	0	2	2	2	1	2	1	2	2	2	1	0	1	**10**	**8**	FIRE_RISK
2170123	3	5	6.05	1.05	WHITE RD	South	13/11/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170124	1	0	1.54	1.54	NEWLANDS RD	South	6/10/2007	0	2	0	1	0	2	2	2	0	2	0	2	2	**11**	**4**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170124	2	1.54	3.14	1.6	NEWLANDS RD	South	6/10/2007	0	2	2	2	2	2	2	2	2	1	2	1	0	**10**	**10**	FIRE_RISK
2170127	1	0	0.5	0.5	KIRUP-GRIMWADE RD	East	29/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170127	2	0.5	1	0.5	KIRUP-GRIMWADE RD	East	29/11/2007	20	1	0	0	0	0	0	1	0	0	0	2	1	**4**	**1**	WATSONIA FIRE_RISK
2170127	3	1	1.3	0.3	KIRUP-GRIMWADE RD	East	29/11/2007	20	1	1	0	1	0	1	1	1	0	0	2	1	**4**	**5**	FIRE_RISK
2170127	4	1.3	1.6	0.3	KIRUP-GRIMWADE RD	East	29/11/2007	20	0	1	0	1	1	1	1	1	0	0	2	1	**4**	**5**	WATSONIA FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170127	5	1.6	3.1	1.5	KIRUP-GRIMWADE RD	East	29/11/2007	unknown	2	2	2	2	2	2	2	2	0	0	0	0	**8**	**8**	WATSONIA FIRE_RISK
2170127	6	3.1	3.8	0.7	KIRUP-GRIMWADE RD	East	29/11/2007	unknown	2	0	2	0	2	0	2	0	0	0	0	2	**8**	**2**	AFRICAN_LOVEGRASS FIRE_RISK
2170127	7	3.8	4.2	0.4	KIRUP-GRIMWADE RD	East	29/11/2007	unknown	0	2	1	1	1	2	0	1	0	0	1	0	**3**	**6**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170127	8	4.2	4.7	0.5	KIRUP-GRIMWADE RD	East	29/11/2007	20	0	1	1	0	1	0	0	0	0	0	1	2	**3**	**3**	AFRICAN_LOVEGRASS FIRE_RISK
2170127	9	4.7	13.62	8.92	KIRUP-GRIMWADE RD	East	29/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	TREE_WEEDS FIRE_RISK
2170128	1	0	1.6	1.6	WISHART RD	North	29/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170129	1	0	2.82	2.82	ANDERSON RD	North	29/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	BLACKBERRY FIRE_RISK
2170130	1	0	0.9	0.9	JAYES RD	East	29/11/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	FIRE_RISK
2170130	2	0.9	1.5	0.6	JAYES RD	East	29/11/2007	20	1	0	0	0	0	0	0	0	0	0	1	1	**1**	**2**	TREE_WEEDS FIRE_RISK
2170130	3	1.5	1.8	0.3	JAYES RD	East	29/11/2007	20	0	2	0	0	0	0	0	0	0	0	1	1	**1**	**3**	WILD_RADISH FIRE_RISK
2170130	4	1.8	2.8	1	JAYES RD	East	29/11/2007	20	1	0	0	0	0	0	1	0	0	0	1	1	**3**	**1**	WILD_RADISH TREE_WEEDS FIRE_RISK
2170130	5	2.8	4.1	1.3	JAYES RD	East	29/11/2007	20	1	1	0	0	0	0	1	0	0	0	1	1	**3**	**2**	TREE_WEEDS FIRE_RISK
2170130	6	4.1	4.8	0.7	JAYES RD	East	29/11/2007	unknown	2	2	2	2	2	2	1	1	1	1	0	0	**8**	**8**	BLACKBERRY FIRE_RISK
2170130	7	4.8	5.8	1	JAYES RD	East	29/11/2007	20	2	1	1	1	1	1	1	1	1	0	1	2	**7**	**6**	BLACKBERRY FIRE_RISK
2170130	8	5.8	6.1	0.3	JAYES RD	East	29/11/2007	20	2	2	1	1	1	1	1	1	1	1	1	0	**7**	**6**	BLACKBERRY FIRE_RISK
2170130	9	6.1	6.6	0.5	JAYES RD	East	29/11/2007	20	1	1	1	0	1	1	1	1	0	0	1	1	**5**	**4**	FIRE_RISK
2170130	10	6.6	7.1	0.5	JAYES RD	East	29/11/2007	20	2	2	1	1	2	2	2	2	1	1	1	1	**9**	**9**	FIRE_RISK
2170130	11	7.1	7.5	0.4	JAYES RD	East	29/11/2007	unknown	2	2	2	2	2	2	2	2	1	1	0	1	**9**	**10**	FIRE_RISK
2170130	12	7.5	8.29	0.79	JAYES RD	East	29/11/2007	unknown	2	1	2	1	2	1	2	2	1	2	0	1	**9**	**8**	BLACKBERRY FIRE_RISK
2170131	1	0	0.4	0.4	PROWSE RD	East	2/10/2007	40	2	2	1	1	1	1	1	1	2	2	2	2	**9**	**9**	FIRE_RISK
2170131	2	0.4	1.5	1.1	PROWSE RD	East	2/10/2007	40	2	2	1	2	1	2	2	2	2	2	2	0	**10**	**10**	FIRE_RISK
2170131	3	1.5	1.8	0.3	PROWSE RD	East	2/10/2007	40	2	2	1	2	1	2	2	2	1	2	1	0	**8**	**10**	FIRE_RISK
2170131	4	1.8	2.06	0.26	PROWSE RD	East	2/10/2007	40	2	2	2	2	2	2	2	2	2	2	2	2	**12**	**10**	
2170132	1	0	0.6	0.6	GREENBUSHES RD	South	2/10/2007	20	2	1	2	1	2	1	2	1	2	1	0	1	**10**	**6**	BRIDAL_CREEPER FIRE_RISK
2170132	2	0.6	1.27	0.67	GREENBUSHES RD	South	2/10/2007	20	1	1	1	1	1	1	1	1	1	1	1	1	**6**	**6**	FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170132	3	1.27	3	1.73	GREENBUSHES RD	South	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170132	4	3	3.8	0.8	GREENBUSHES RD	South	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	1	0	**11**	**10**	FIRE_RISK
2170132	5	3.8	4.6	0.8	GREENBUSHES RD	South	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170132	6	4.6	5.5	0.9	GREENBUSHES RD	South	2/10/2007	20	2	0	1	0	2	0	1	0	1	0	1	1	**8**	**1**	FIRE_RISK
2170132	7	5.5	6.1	0.6	GREENBUSHES RD	South	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS FIRE_RISK
2170132	8	6.1	6.66	0.56	GREENBUSHES RD	South	2/10/2007	20	2	2	1	1	2	2	1	1	1	1	1	1	**8**	**8**	FIRE_RISK
2170132	9	6.66	7.3	0.64	GREENBUSHES RD	South	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170132	10	7.3	8.23	0.93	GREENBUSHES RD	South	2/10/2007	unknown	1	1	0	0	1	1	2	2	1	1	1	1	**6**	**6**	FIRE_RISK
2170132	11	8.23	9.4	1.17	GREENBUSHES RD	South	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170132	12	9.4	10.2	0.8	GREENBUSHES RD	South	2/10/2007	unknown	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	BLACKBERRY FIRE_RISK
2170132	13	10.2	11	0.8	GREENBUSHES RD	South	2/10/2007	unknown	2	0	2	0	2	0	2	2	2	0	0	1	**10**	**3**	BLACKBERRY TREE_WEEDS FIRE_RISK
2170133	1	0	0.93	0.93	WESLINGTON RD	South	2/10/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	TREE_WEEDS FIRE_RISK
2170134	1	0	0.9	0.9	AMMON RD	North East	2/10/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170134	2	0.9	1.3	0.4	AMMON RD	North East	2/10/2007	0	2	2	2	2	2	2	2	2	2	2	1	0	**11**	**10**	FIRE_RISK
2170134	3	1.3	5.3	4	AMMON RD	North East	2/10/2007	unknown	2	2	2	2	2	2	2	2	0	0	0	0	**8**	**8**	FIRE_RISK
2170134	4	5.3	5.8	0.5	AMMON RD	North East	2/10/2007	20	1	1	0	0	0	0	1	1	0	0	1	1	**3**	**3**	BLACKBERRY FIRE_RISK
2170134	5	5.8	6.44	0.64	AMMON RD	North East	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170135	1	0	1.9	1.9	WALTERS TRACK	South East	2/10/2007	unknown	2	2	2	2	2	2	2	2	0	0	0	0	**8**	**8**	
2170135	2	1.9	2.4	0.5	WALTERS TRACK	South East	2/10/2007	unknown	2	2	1	1	1	1	2	2	2	2	0	1	**8**	**9**	
2170135	3	2.4	2.9	0.5	WALTERS TRACK	South East	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170135	4	2.9	3.16	0.26	WALTERS TRACK	South East	2/10/2007	unknown	1	1	1	1	1	1	1	1	1	1	1	1	**6**	**6**	BRIDAL_CREEPER BLACKBERRY
2170136	1	0	1	1	AMMONS TRACK	North East	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170141	1	0	0.3	0.3	GRIMWADE RD	North East	2/10/2007	20	0	1	0	0	0	0	1	1	1	1	1	1	**2**	**3**	FIRE_RISK
2170141	2	0.3	0.6	0.3	GRIMWADE RD	North East	2/10/2007	20	1	2	0	0	0	0	0	0	0	0	1	1	**2**	**3**	FIRE_RISK
2170141	3	0.6	0.8	0.2	GRIMWADE RD	North East	2/10/2007	20	0	0	0	0	0	0	1	1	1	1	1	1	**2**	**2**	FIRE_RISK
2170141	4	0.8	1	0.2	GRIMWADE RD	North East	2/10/2007	20	0	2	0	1	0	1	0	1	0	3	1	2	**1**	**7**	FIRE_RISK
2170141	5	1	1.2	0.2	GRIMWADE RD	North East	2/10/2007	20	1	2	1	1	0	1	1	1	2	3	1	2	**4**	**7**	BRIDAL_CREEPER FIRE_RISK
2170141	6	1.2	1.8	0.6	GRIMWADE RD	North East	2/10/2007	20	0	2	0	1	0	1	0	1	0	3	1	2	**1**	**7**	BRIDAL_CREEPER FIRE_RISK
2170141	7	1.8	2.2	0.4	GRIMWADE RD	North East	2/10/2007	unknown	1	2	0	1	0	1	1	1	1	3	2	2	**4**	**7**	BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170141	8	2.2	3.5	1.3	GRIMWADE RD	North East	2/10/2007	unknown	1	2	0	1	0	1	1	1	1	3	2	0	**4**	**5**	BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170141	9	3.5	4.4	0.9	GRIMWADE RD	North East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
2170141	10	4.4	5.3	0.9	GRIMWADE RD	North East	2/10/2007	20	2	1	2	0	2	0	2	2	6	2	0	1	**8**	**4**	FIRE_RISK
2170141	11	5.3	6.1	0.8	GRIMWADE RD	North East	2/10/2007	20	2	2	2	1	2	1	2	2	6	4	0	1	**8**	**7**	FIRE_RISK
2170141	12	6.1	12.15	6.05	GRIMWADE RD	North East	2/10/2007	unknown	2	2	2	2	2	2	2	2	6	6	0	0	**8**	**8**	FIRE_RISK
2170141	13	12.15	16.4	4.25	GRIMWADE RD	North East	2/10/2007	20	0	0	0	0	0	0	2	2	2	2	1	1	**3**	**3**	BLACKBERRY FIRE_RISK
2170141	14	16.4	18.42	2.02	GRIMWADE RD	North East	2/10/2007	unknown	2	2	2	2	2	2	2	2	6	6	0	0	**8**	**8**	TREE_WEEDS FIRE_RISK
2170141	15	18.42	31.5	13.08	GRIMWADE RD	North East	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	BLACKBERRY TREE_WEEDS FIRE_RISK
2170141	16	31.5	31.92	0.42	GRIMWADE RD	North East	2/10/2007	20	1	1	1	0	0	0	1	0	2	0	1	0	**4**	**1**	WATSONIA FIRE_RISK
2170142	1	3.75	3.95	0.2	SOUTHAMPTON RD	South	2/10/2007	20	1	0	1	1	0	0	0	1	0	0	1	1	**3**	**3**	WATSONIA WILD_RADISH BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170142	2	3.95	5.75	1.8	SOUTHAMPTON RD	South	2/10/2007	20	1	1	0	0	0	0	0	0	1	1	0	0	**2**	**2**	FIRE_RISK
2170142	3	5.75	5.95	0.2	SOUTHAMPTON RD	South	2/10/2007	20	1	1	0	0	0	0	0	0	1	1	1	1	**3**	**3**	FIRE_RISK
2170142	4	5.95	6.35	0.4	SOUTHAMPTON RD	South	2/10/2007	20	1	1	0	0	0	0	2	2	1	1	0	0	**4**	**4**	FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170142	5	6.35	7.35	1	SOUTHAMPTON RD	South	2/10/2007	20	1	1	0	0	0	0	0	0	0	0	1	1	**2**	**2**	WILD_RADISH TREE_WEEDS FIRE_RISK
2170142	6	7.35	7.75	0.4	SOUTHAMPTON RD	South	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	1	**2**	**1**	WILD_RADISH TREE_WEEDS FIRE_RISK
2170142	7	7.75	8.55	0.8	SOUTHAMPTON RD	South	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	1	**2**	**1**	AFRICAN_LOVEGRASS WILD_RADISH TREE_WEEDS FIRE_RISK
2170142	8	8.55	8.95	0.4	SOUTHAMPTON RD	South	2/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	1	**3**	**2**	WILD_RADISH TREE_WEEDS FIRE_RISK
2170142	9	8.95	9.55	0.6	SOUTHAMPTON RD	South	2/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WILD_RADISH FIRE_RISK
2170142	10	9.55	11.15	1.6	SOUTHAMPTON RD	South	2/10/2007	20	1	1	1	1	0	0	0	0	0	0	2	1	**4**	**3**	WILD_RADISH TREE_WEEDS FIRE_RISK
2170142	11	11.15	14.7	3.55	SOUTHAMPTON RD	South	2/10/2007	20	1	1	1	1	0	0	0	0	0	0	2	1	**4**	**3**	WILD_RADISH BLACKBERRY TREE_WEEDS FIRE_RISK
2170143	1	0	0.2	0.2	OLD PADBURY RD	South East	20/10/2007	20	2	2	0	0	0	0	0	0	0	0	2	2	**4**	**4**	WATSONIA WILD_RADISH FIRE_RISK
2170143	2	0.2	0.65	0.45	OLD PADBURY RD	South East	20/10/2007	20	1	1	0	1	0	0	0	0	0	0	2	2	**3**	**4**	WILD_RADISH FIRE_RISK
2170143	3	0.65	0.8	0.15	OLD PADBURY RD	South East	20/10/2007	20	1	1	0	0	0	0	0	0	0	0	1	0	**2**	**1**	WILD_RADISH TREE_WEEDS FIRE_RISK
2170143	4	0.8	1.2	0.4	OLD PADBURY RD	South East	20/10/2007	20	1	1	0	1	0	0	0	0	0	0	2	1	**3**	**3**	WILD_RADISH BLACKBERRY TREE_WEEDS FIRE_RISK
2170143	5	1.2	1.9	0.7	OLD PADBURY RD	South East	20/10/2007	20	1	1	1	1	0	0	0	0	0	0	2	1	**4**	**3**	WILD_RADISH BLACKBERRY FIRE_RISK
2170143	6	1.9	2.35	0.45	OLD PADBURY RD	South East	20/10/2007	20	1	1	1	1	0	0	0	0	0	0	0	1	**2**	**3**	WILD_RADISH BLACKBERRY TREE_WEEDS FIRE_RISK
2170144	1	0	1.5	1.5	HAY RD	East	20/10/2007	20	1	1	0	1	0	0	0	0	0	0	1	2	**2**	**4**	WILD_RADISH TREE_WEEDS FIRE_RISK
2170144	2	1.5	2.4	0.9	HAY RD	East	20/10/2007	20	1	1	1	1	0	0	0	0	0	0	1	2	**3**	**4**	WILD_RADISH TREE_WEEDS FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170144	3	2.4	3	0.6	HAY RD	East	20/10/2007	20	1	1	1	0	0	0	0	0	0	0	1	2	**3**	**3**	WILD_RADISH FIRE_RISK
2170144	4	3	3.4	0.4	HAY RD	East	20/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WILD_RADISH FIRE_RISK
2170144	5	3.4	3.8	0.4	HAY RD	East	20/10/2007	20	1	1	1	1	0	0	0	1	0	0	2	0	**4**	**3**	FIRE_RISK
2170144	6	3.8	4	0.2	HAY RD	East	20/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WILD_RADISH FIRE_RISK
2170144	7	4	4.15	0.15	HAY RD	East	20/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WILD_RADISH BRIDAL_CREEPER FIRE_RISK
2170144	8	4.15	4.4	0.25	HAY RD	East	20/10/2007	20	1	2	0	1	0	1	0	2	0	0	2	0	**3**	**6**	WILD_RADISH FIRE_RISK
2170144	9	4.4	5.1	0.7	HAY RD	East	20/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WILD_RADISH FIRE_RISK
2170144	10	5.1	5.6	0.5	HAY RD	East	20/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WILD_RADISH FIRE_RISK
2170144	11	5.6	5.8	0.2	HAY RD	East	20/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WILD_RADISH FIRE_RISK
2170145	1	0	1	1	GLENARDEN RD	West	20/10/2007	20	2	2	1	1	2	2	2	2	2	2	0	0	**9**	**9**	FIRE_RISK
2170145	2	1	2	1	GLENARDEN RD	West	20/10/2007	20	1	1	2	1	0	0	1	1	2	2	2	2	**8**	**7**	WILD_RADISH FIRE_RISK
2170145	3	2	3	1	GLENARDEN RD	West	20/10/2007	20	0	1	0	0	0	0	0	0	0	0	2	2	**2**	**3**	WILD_RADISH BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170145	4	3	4.98	1.98	GLENARDEN RD	West	20/10/2007	20	0	1	0	0	0	0	0	0	1	2	2	1	**3**	**4**	TREE_WEEDS FIRE_RISK
2170146	1	0	0.6	0.6	SPRING GULLY RD	East	14/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WILD_RADISH FIRE_RISK
2170146	2	0.6	0.9	0.3	SPRING GULLY RD	East	14/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WILD_RADISH FIRE_RISK
2170146	3	0.9	1.1	0.2	SPRING GULLY RD	East	14/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS WILD_RADISH FIRE_RISK
2170146	4	1.1	1.43	0.33	SPRING GULLY RD	East	14/10/2007	20	2	2	2	2	1	1	2	2	2	2	0	0	**9**	**9**	FIRE_RISK
2170148	1	0	1.8	1.8	BATHGATE RD	West	16/10/2007	20	1	1	1	1	0	0	1	1	0	0	0	0	**3**	**3**	FIRE_RISK
2170148	2	1.8	2.23	0.43	BATHGATE RD	West	16/10/2007	20	2	2	0	0	0	0	0	0	0	0	0	0	**2**	**2**	WATSONIA WILD_RADISH BLACKBERRY FIRE_RISK
2170149	1	0	1.01	1.01	MAILMAN RD	South	16/10/2007	0	1	1	1	1	1	1	1	1	1	0	1	1	**6**	**5**	WATSONIA BLACKBERRY FIRE_RISK
2170149	2	1.01	1.21	0.2	MAILMAN RD	South	16/10/2007	0	1	0	1	1	1	1	1	2	1	2	1	0	**6**	**6**	FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170149	3	1.21	1.61	0.4	MAILMAN RD	South	16/10/2007	0	1	1	1	0	1	0	1	1	1	0	1	2	**6**	**4**	FIRE_RISK
2170149	4	1.61	1.91	0.3	MAILMAN RD	South	16/10/2007	20	1	2	1	1	2	1	2	1	1	0	1	1	**8**	**6**	FIRE_RISK
2170149	5	1.91	2.21	0.3	MAILMAN RD	South	16/10/2007	20	1	0	1	2	2	0	2	0	1	0	1	1	**8**	**3**	FIRE_RISK
2170149	6	2.21	2.81	0.6	MAILMAN RD	South	16/10/2007	20	0	0	0	2	0	0	0	0	0	0	1	1	**1**	**3**	FIRE_RISK
2170149	7	2.81	3.01	0.2	MAILMAN RD	South	16/10/2007	20	1	1	0	1	0	0	0	1	0	1	1	1	**2**	**5**	FIRE_RISK
2170149	8	3.01	3.41	0.4	MAILMAN RD	South	16/10/2007	unknown	1	1	0	1	0	0	0	2	0	2	0	1	**1**	**7**	FIRE_RISK
2170149	9	3.41	3.91	0.5	MAILMAN RD	South	16/10/2007	unknown	2	1	2	1	2	1	2	2	1	2	0	1	**9**	**8**	FIRE_RISK
2170149	10	3.91	7.51	3.6	MAILMAN RD	South	16/10/2007	unknown	2	2	2	2	2	2	2	1	1	2	0	0	**9**	**9**	FIRE_RISK
2170149	11	7.51	8.21	0.7	MAILMAN RD	South	16/10/2007	unknown	2	0	2	0	2	0	2	0	2	0	0	1	**10**	**1**	FIRE_RISK
2170150	1	0	0.3	0.3	MARDAWARRA RD	East	11/11/2007	20	2	2	0	0	0	0	1	1	0	0	2	2	**5**	**5**	FIRE_RISK
2170150	2	0.3	0.6	0.3	MARDAWARRA RD	East	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
2170150	3	0.6	0.8	0.2	MARDAWARRA RD	East	11/11/2007	20	2	2	1	1	1	1	1	1	1	2	2	0	**8**	**7**	FIRE_RISK
2170150	4	0.8	1.64	0.84	MARDAWARRA RD	East	11/11/2007	20	2	0	0	0	1	0	1	0	1	0	2	2	**7**	**2**	FIRE_RISK
2170150	5	1.64	2.59	0.95	MARDAWARRA RD	East	11/11/2007	20	1	1	0	0	0	0	1	0	0	0	2	2	**4**	**3**	FIRE_RISK
2170150	6	2.59	3.19	0.6	MARDAWARRA RD	East	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS WILD_RADISH FIRE_RISK
2170152	1	0	0.64	0.64	MITCHELL ST	East	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	2	2	**3**	**3**	FIRE_RISK
2170153	1	0	0.45	0.45	HAWTER RD	West	11/11/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	WATSONIA TREE_WEEDS FIRE_RISK
2170153	2	0.45	2	1.55	HAWTER RD	South	11/11/2007	20	1	1	0	0	0	0	0	0	0	0	1	2	**2**	**3**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170153	3	2	2.45	0.45	HAWTER RD	South	11/11/2007	20	0	0	0	0	0	0	2	2	0	0	1	1	**3**	**3**	
2170154	1	0	0.9	0.9	CUNDINUP-KIRUP RD	South	1/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS WILD_RADISH WATSONIA TREE_WEEDS FIRE_RISK
2170154	2	0.9	1	0.1	CUNDINUP-KIRUP RD	South	1/10/2007	20	2	0	2	0	2	0	2	0	2	0	0	2	**10**	**2**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK
2170154	3	1	12.8	11.8	CUNDINUP-KIRUP RD	South	1/10/2007	20	2	2	2	1	2	2	2	2	2	2	2	2	**10**	**9**	TREE_WEEDS FIRE_RISK
2170154	4	12.8	14.1	1.3	CUNDINUP-KIRUP RD	South	1/10/2007	20	2	1	2	1	2	0	2	1	2	0	0	2	**10**	**5**	WATSONIA FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170154	5	14.1	15.46	1.36	CUNDINUP-KIRUP RD	South	1/10/2007	20	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	WATSONIA
2170158	1	0	1.12	1.12	RUSSELL RD	East	11/11/2007	unknown	1	2	1	2	1	2	1	2	1	2	1	0	**6**	**10**	FIRE_RISK
2170159	1	0	1.7	1.7	MAIDMENT RD	South	11/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170159	2	1.7	3	1.3	MAIDMENT RD	South	11/11/2007	20	2	0	1	0	1	0	2	2	2	0	1	1	**9**	**3**	FIRE_RISK
2170159	3	3	3.4	0.4	MAIDMENT RD	South	11/11/2007	20	0	0	0	0	0	0	0	2	0	0	1	1	**1**	**3**	TREE_WEEDS FIRE_RISK
2170159	4	3.4	5.08	1.68	MAIDMENT RD	South	11/11/2007	20	0	1	0	0	0	0	0	1	0	1	1	1	**1**	**4**	TREE_WEEDS FIRE_RISK
2170162	1	0	5.17	5.17	EWARTS RD	West	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	WILD_RADISH BLACKBERRY TREE_WEEDS
2170162	2	5.17	5.67	0.5	EWARTS RD	West	11/11/2007	unknown	2	2	1	1	1	1	1	1	1	1	2	2	**8**	**8**	FIRE_RISK
2170163	1	0	0.53	0.53	CEMETERY RD	East	11/11/2007	unknown	2	2	2	2	2	2	2	2	1	1	0	0	**9**	**9**	FIRE_RISK
2170164	1	0	0.1	0.1	WALTER ST	North	11/11/2007	20	2	2	1	1	1	1	0	0	1	1	0	0	**5**	**5**	FIRE_RISK
2170164	2	0.1	0.4	0.3	WALTER ST	North	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	0	2	**0**	**2**	TREE_WEEDS FIRE_RISK
2170164	3	0.4	1	0.6	WALTER ST	North	11/11/2007	20	1	0	1	0	1	0	0	0	0	0	1	0	**4**	**0**	WATSONIA AFRICAN_LOVEGRASS WILD_RADISH BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170164	4	1	1.29	0.29	WALTER ST	North	11/11/2007	20	1	1	1	0	1	0	0	0	0	0	1	1	**4**	**2**	WATSONIA WILDRADISH BRIDAL_CREEPER TREE_WEEDS FIRE_RISK
2170166	1	0	1.46	1.46	LUKIS RD	East	13/11/2007	unknown	1	2	0	1	0	1	2	2	0	0	0	0	**3**	**6**	AFRICAN_LOVEGRASS FIRE_RISK
2170168	1	0	0.26	0.26	BROOK RD	West	11/11/2007	unknown	1	2	0	1	0	1	0	1	0	2	1	1	**2**	**8**	WATSONIA BLACKBERRY TREE_WEEDS FIRE_RISK
2170174	1	0	0.59	0.59	STEERE RD	North	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170181	1	0	0.3	0.3	MEAGHER RD	South	11/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170181	2	0.3	1.41	1.11	MEAGHER RD	South	11/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	1	0	**11**	**10**	TREE_WEEDS FIRE_RISK
2170183	1	0	0.7	0.7	JONES RD	South	11/11/2007	unknown	2	0	2	0	2	0	2	2	2	0	0	1	**10**	**3**	FIRE_RISK
2170183	2	0.7	2.7	2	JONES RD	South	11/11/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170184	1	0	1.3	1.3	DELAPORTE RD	South	13/11/2007	unknown	2	2	2	2	2	2	2	2	1	1	0	0	**9**	**9**	FIRE_RISK
2170184	2	1.3	1.61	0.31	DELAPORTE RD	South	13/11/2007	unknown	2	1	2	1	2	2	2	2	1	0	0	1	**9**	**7**	FIRE_RISK
2170186	1	0	0.5	0.5	CIRRILLO RD	West	11/11/2007	20	2	2	1	1	1	1	1	2	1	2	1	1	**7**	**9**	WATSONIA FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170186	2	0.5	0.9	0.4	CIRRILLO RD	West	11/11/2007	unknown	2	2	2	1	2	1	2	2	2	2	0	1	**10**	**9**	WATSONIA BLACKBERRY FIRE_RISK
2170186	3	0.9	1.24	0.34	CIRRILLO RD	West	11/11/2007	unknown	2	2	2	2	2	2	2	1	2	2	0	0	**10**	**9**	WATSONIA BLACKBERRY FIRE_RISK
2170190	1	0	0.21	0.21	BOULDER ST	South	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170192	1	0	1.35	1.35	PALMER ST	East	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170193	1	0	0.6	0.6	MILO RD	South	11/11/2007	20	2	2	1	1	2	2	1	1	1	1	1	1	**8**	**8**	WATSONIA BRIDAL_CREEPER TREE_WEEDS
2170193	2	0.6	2	1.4	MILO RD	South	11/11/2007	20	2	2	1	1	2	2	2	2	1	1	0	1	**8**	**9**	TREE_WEEDS
2170193	3	2	2.73	0.73	MILO RD	South	11/11/2007	20	1	1	1	1	1	1	0	1	0	0	1	1	**4**	**5**	
2170195	1	0	0.45	0.45	SMITH ST	South	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170196	1	0	0.5	0.5	BOND ST	East	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170197	1	0	0.26	0.26	VICTORIA PDE	North	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170198	1	0	0.23	0.23	PADMAN ST	South	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170199	1	0	0.3	0.3	LITTLE RD	South	11/11/2007	20	1	1	1	1	1	1	1	1	0	0	1	1	**5**	**5**	WATSONIA FIRE_RISK
2170199	2	0.3	0.5	0.2	LITTLE RD	South	11/11/2007	20	1	0	0	0	1	0	0	0	1	0	1	1	**4**	**1**	WATSONIA FIRE_RISK
2170199	3	0.5	1	0.5	LITTLE RD	South	11/11/2007	20	2	1	1	1	1	1	1	1	2	2	1	1	**8**	**7**	WATSONIA FIRE_RISK
2170199	4	1	1.2	0.2	LITTLE RD	South	11/11/2007	20	2	2	2	2	2	2	2	2	2	2	1	1	**11**	**11**	FIRE_RISK
2170199	5	1.2	2.38	1.18	LITTLE RD	South	11/11/2007	20	2	2	1	1	1	1	1	1	2	2	1	1	**8**	**8**	WATSONIA FIRE_RISK
2170200	1	0	0.6	0.6	MIOLOTTI RD	East	3/10/2007	20	0	0	0	0	1	1	1	1	1	0	1	0	**4**	**2**	WATSONIA AFRICAN_LOVEGRASS TREE_WEEDS FIRE_RISK
2170200	2	0.6	0.92	0.32	MIOLOTTI RD	East	3/10/2007	20	2	2	1	1	1	1	1	1	2	2	0	0	**7**	**7**	FIRE_RISK
2170200	3	0.92	1.94	1.02	MIOLOTTI RD	East	3/10/2007	20	2	2	1	1	1	1	1	1	1	1	1	1	**7**	**7**	WATSONIA AFRICAN_LOVEGRASS TREE_WEEDS FIRE_RISK
2170204	1	0	0.21	0.21	TORRISI PL	East	3/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170208	1	0	0.73	0.73	MEAD ST	East	3/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170209	1	0	0.5	0.5	MILLER RD	North East	3/10/2007	20	2	2	0	0	1	1	2	2	2	1	1	1	**8**	**7**	FIRE_RISK
2170209	2	0.5	0.87	0.37	MILLER RD	North East	3/10/2007	20	2	2	1	1	1	1	2	2	2	1	1	1	**9**	**8**	FIRE_RISK
2170210	1	0	0.53	0.53	EDWARD RD	East	1/10/2007	20	0	1	1	0	0	0	1	0	0	0	0	2	**2**	**3**	BRIDAL_CREEPER
2170211	1	0	0.39	0.39	HARDY PL	West	1/10/2007	unknown	2	2	1	1	1	1	1	1	1	1	2	2	**8**	**8**	TREE_WEEDS FIRE_RISK
2170215	1	0	0.34	0.34	GOLF CLUB RD	South	1/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK

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								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170218	1	0	1	1	MUNGALUP RD (F)	North	1/10/2007	20	2	2	2	2	2	2	2	2	2	2	2	2	**10**	**10**	FIRE_RISK
2170218	2	1	2.4	1.4	MUNGALUP RD (F)	North	1/10/2007	20	0	0	0	0	0	0	2	2	0	0	2	2	**3**	**3**	BLACKBERRY
2170218	3	2.4	2.7	0.3	MUNGALUP RD (F)	North	1/10/2007	20	0	2	0	2	0	2	2	2	0	2	1	0	**3**	**10**	TREE_WEEDS FIRE_RISK
2170218	4	2.7	3.73	1.03	MUNGALUP RD (F)	North	1/10/2007	20	2	2	2	2	2	2	2	2	2	2	2	2	**10**	**10**	TREE_WEEDS FIRE_RISK
2170219	1	0	8.78	8.78	BEST RD (F)	South	1/10/2007	20	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	TREE_WEEDS FIRE_RISK
2170220	1	0	2.1	2.1	GAVINS RD	North West	2/10/2007	UNKNOWN	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	WATSONIA TREE_WEEDS
2170220	2	2.1	2.8	0.7	GAVINS RD	North West	2/10/2007	UNKNOWN	2	2	2	2	2	2	2	2	2	2	0	2	**10**	**12**	
2170220	3	2.8	3.5	0.7	GAVINS RD	North West	2/10/2007	UNKNOWN	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170220	4	3.5	3.7	0.2	GAVINS RD	North West	2/10/2007	UNKNOWN	2	2	2	0	2	0	2	2	2	2	0	2	**10**	**8**	
2170220	5	3.7	6.25	2.55	GAVINS RD	North West	2/10/2007		2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170220	6	7.4	11.4	4	GAVINS RD	North West	2/10/2007	UNKNOWN	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170221	1	0	0.2	0.2	KNIGHTS RD	North West	2/10/2007	unknown	2	2	1	1	1	2	1	2	2	2	1	0	**8**	**9**	AFRICAN_LOVEGRASS TREE_WEEDS
2170221	2	0.2	0.4	0.2	KNIGHTS RD	North West	2/10/2007	unknown	2	2	1	2	2	2	2	2	2	2	2	0	**11**	**10**	WATSONIA
2170221	3	0.4	1.9	1.5	KNIGHTS RD	North West	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	1	0	**11**	**10**	
2170221	4	1.9	2.1	0.2	KNIGHTS RD	North West	2/10/2007		2	2	2	2	2	2	2	2	2	2	0	1	**10**	**11**	
2170221	5	2.1	2.3	0.2	KNIGHTS RD	North West	2/10/2007		2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170221	6	2.3	3.06	0.76	KNIGHTS RD	North West	2/10/2007		2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170222	1	0	0.28	0.28	HICKMAN PL	North East	2/10/2007	unknown	2	2	1	1	1	1	2	2	2	2	1	1	**9**	**9**	FIRE_RISK
2170228	1	0	0.39	0.39	LEE RD	South	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	2	0	**12**	**10**	
2170229	1	0	0.35	0.35	MCGUTCHEON RD	East	2/10/2007	20	2	0	1	0	1	0	1	0	0	0	1	1	**6**	**1**	AFRICAN_LOVEGRASS FIRE_RISK
2170232	1	0	0.46	0.46	RAINBOW DOWNS	North	2/10/2007	20	1	1	1	1	0	0	1	1	1	0	1	1	**5**	**4**	FIRE_RISK
2170233	1	0	0.88	0.88	MARWICK RD	South	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS BLACKBERRY FIRE_RISK
2170236	1	0	0.22	0.22	OLDMEADOW RD	North	1/10/2007	20	1	1	0	0	0	0	0	0	0	0	2	2	**3**	**3**	AFRICAN_LOVEGRASS TREE_WEEDS

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								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170236	2	0.22	0.95	0.73	OLDMEADOW RD	North	1/10/2007	20	2	2	2	2	2	2	2	2	1	1	2	2	**9**	**11**	FIRE_RISK
2170237	1	0	0.3	0.3	CHARLTON RD	South	1/10/2007	20	1	2	1	1	0	1	1	1	0	1	2	0	**5**	**6**	AFRICAN_LOVEGRASS FIRE_RISK
2170237	2	0.3	0.6	0.3	CHARLTON RD	South	1/10/2007	0	2	2	1	1	1	1	1	1	0	0	2	1	**7**	**6**	FIRE_RISK
2170237	3	0.6	1.16	0.56	CHARLTON RD	South	1/10/2007	0	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
2170239	1	0	0.29	0.29	RUSSEL RD	North	1/10/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	TREE_WEEDS FIRE_RISK
2170240	1	0	0.45	0.45	JOHNSTON ST	South	1/10/2007	20	1	0	0	0	0	0	1	1	0	0	0	0	**2**	**1**	FIRE_RISK
2170241	1	0	0.34	0.34	FOWLER RD	East	1/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170242	1	0	0.2	0.2	LANGRIDGE RD	East	1/10/2007	20	1	0	1	0	1	0	2	0	0	0	0	1	**5**	**1**	FIRE_RISK
2170242	2	0.2	0.9	0.7	LANGRIDGE RD	East	1/10/2007	unknown	1	2	1	2	1	2	2	2	2	2	2	0	**9**	**10**	FIRE_RISK
2170247	1	0	0.78	0.78	THOMSON ST	South	1/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170251	1	0	0.2	0.2	TRAMLINE RD	North	1/10/2007	20	2	2	1	1	2	2	2	2	2	2	1	1	**10**	**10**	FIRE_RISK
2170251	2	0.2	0.67	0.47	TRAMLINE RD	North	1/10/2007	20	0	2	0	2	0	2	0	1	0	0	1	0	**1**	**7**	FIRE_RISK
2170252	1	0	3.06	3.06	VALENTINE RD	North	6/10/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170253	1	0	0.3	0.3	KIRKPATRICK RD	West	6/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170253	2	0.3	1.14	0.84	KIRKPATRICK RD	West	6/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
2170255	1	0	0.9	0.9	WARNER ST	East	6/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA TREE_WEEDS FIRE_RISK
2170255	2	0.9	1.31	0.41	WARNER ST	East	6/10/2007	20	1	1	0	0	0	0	1	1	0	0	2	2	**4**	**4**	FIRE_RISK
2170256	1	0	0.92	0.92	BAILEY HEIGHTS	East	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	
2170263	1	0	0.3	0.3	BILLINGHURST RD	West	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	WILD_RADISH FIRE_RISK
2170263	2	0.3	0.7	0.4	BILLINGHURST RD	West	2/10/2007	20	0	0	0	2	0	2	1	2	0	0	0	0	**1**	**6**	WILD_RADISH FIRE_RISK
2170263	3	0.7	1.03	0.33	BILLINGHURST RD	West	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	
2170264	1	0	0.42	0.42	BRAZIER RD	West	2/10/2007	20	2	2	1	1	1	1	1	1	1	0	2	2	**8**	**7**	WATSONIA AFRICAN_LOVEGRASS WILD_RADISH FIRE_RISK
2170265	1	0	1.09	1.09	HAMILTON ST	East	2/10/2007	20	2	2	1	1	1	1	1	1	2	2	2	1	**9**	**8**	WATSONIA AFRICAN_LOVEGRASS WILD_RADISH TREE_WEEDS FIRE_RISK
2170269	1	0	0.84	0.84	TALLOWWOOD DRIVE	South	2/10/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170271	1	0	0.6	0.6	RAILWAY RESERVE RD	North	2/10/2007	20	0	1	0	0	0	0	0	0	0	0	1	0	**1**	**1**	WATSONIA AFRICAN_LOVEGRASS FIRE_RISK

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								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170274	1	0	3.08	3.08	HUNDLEY RD	South	2/10/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170289	1	0	0.4	0.4	CASTLE ST	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	0	**2**	**0**	AFRICAN_LOVEGRASS FIRE_RISK
2170289	2	0.4	1	0.6	CASTLE ST	North	13/11/2007	0	2	0	1	0	1	0	2	0	2	0	0	0	**8**	**0**	WATSONIA TREE_WEEDS FIRE_RISK
2170289	3	1	1.3	0.3	CASTLE ST	North	13/11/2007	0	2	2	1	2	1	2	2	2	2	2	0	0	**8**	**10**	WATSONIA TREE_WEEDS FIRE_RISK
2170289	4	1.3	1.47	0.17	CASTLE ST	North	13/11/2007	0	2	0	1	0	1	0	2	2	2	0	0	0	**8**	**2**	WATSONIA FIRE_RISK
2170289	5	1.47	1.57	0.1	CASTLE ST	North	13/11/2007	0	1	0	0	0	0	0	0	0	0	0	0	0	**1**	**0**	WATSONIA FIRE_RISK
2170292	1	0	0.61	0.61	MENARD ACCESS	North	13/11/2007	unknown	2	2	2	2	2	2	2	2	0	0	0	2	**8**	**10**	WATSONIA FIRE_RISK
2170294	1	0	0.44	0.44	VALLELONGA RD	East	13/11/2007	unknown	2	2	2	1	2	2	2	2	0	0	0	1	**8**	**8**	
2170295	1	0	0.61	0.61	PAPALIAS RD	East	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	TREE_WEEDS FIRE_RISK
2170296	1	0	0.2	0.2	STEERE ST EAST	South	13/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170301	1	0	0.87	0.87	EDEN VALLEY ACCESS RD	South	13/11/2007	unknown	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	
2170304	1	0	0.34	0.34	ROSEDEAN LAND	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS FIRE_RISK
2170312	1	0	1.52	1.52	MERRIFIELD VIEW	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170313	1	0	0.37	0.37	WATTLE COURT	North	13/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	FIRE_RISK
2170315	1	0	1.75	1.75	NIOKA DR	North	13/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170319	1	0	2.5	2.5	HOWLETT RAMBLE	North East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	
2170320	1	0	0.35	0.35	KATRINA HEIGHTS	West	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
2170321	1	0	0.15	0.15	BALINGA DR	West	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	
2170321	2	0.15	0.3	0.15	BALINGA DR	West	11/11/2007	0	2	2	2	2	2	2	2	2	2	2	0	0	**10**	**10**	FIRE_RISK
2170321	3	0.3	0.85	0.55	BALINGA DR	West	11/11/2007	0	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS FIRE_RISK
2170324	1	0	0.3	0.3	DOWRICK RD	North	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
2170326	1	0	1	1	TURNER ACCESS RD	East	11/11/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	TREE_WEEDS FIRE_RISK
2170327	1	0	0.3	0.3	MAUGER RD	West	11/11/2007	20	0	0	0	0	0	0	1	1	0	0	0	0	**1**	**1**	
2170330	1	0	0.6	0.6	FROST RD	South	22/09/2007	20	2	0	2	0	2	0	2	0	2	0	0	1	**10**	**1**	AFRICAN_LOVEGRASS BRIDAL_CREEPER FIRE_RISK
2170330	2	0.6	0.83	0.23	FROST RD	South	22/09/2007	0	2	1	2	1	2	1	2	1	2	2	0	1	**10**	**7**	AFRICAN_LOVEGRASS BRIDAL_CREEPER FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
2170331	1	0	0.3	0.3	MONTGOMERY RD	West	22/09/2007	0	2	1	2	0	2	0	2	0	2	1	0	2	**10**	**4**	WATSONIA FIRE_RISK
2170340	1	0	0.7	0.7	MYRTLE RIDGE	West	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	
2170341	1	0	1.1	1.1	HETHERINGTON RD	East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS
2170341	2	1.1	1.4	0.3	HETHERINGTON RD	East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	AFRICAN_LOVEGRASS
2170341	3	1.4	1.9	0.5	HETHERINGTON RD	East	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN_LOVEGRASS
H009	1	176.49	177.55	1.06	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	2	2	2	2	2	1	2	2	2	1	1	**10**	**11**	FIRE_RISK
H009	2	177.55	178.8	1.25	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	1	2	0	2	0	1	0	1	2	1	0	**9**	**3**	LOVE_GRASS FIRE_RISK
H009	3	178.8	182.7	3.9	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	2	0	1	0	0	0	1	0	0	2	2	**2**	**6**	WATSONIA FIRE_RISK
H009	4	182.7	183.6	0.9	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	FIRE_RISK
H009	5	183.6	184.5	0.9	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	0	0	0	0	0	0	0	0	0	2	1	**2**	**1**	WATSONIA LOVE_GRASS FIRE_RISK
H009	6	184.5	186.7	2.2	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	FIRE_RISK
H009	7	186.7	187.3	0.6	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	2	1	1	1	1	1	1	0	0	0	1	**5**	**6**	WATSONIA FIRE_RISK
H009	8	187.3	188.12	0.82	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	2	1	1	1	1	0	0	0	0	1	1	**3**	**5**	FIRE_RISK
H009	9	188.12	188.7	0.58	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	2	1	2	2	2	1	1	2	2	0	0	**8**	**9**	FIRE_RISK
H009	10	188.7	189.1	0.4	SOUTH WEST HIGHWAY	South	2/10/2007	40	2	1	1	0	2	1	1	1	1	0	0	2	**7**	**5**	FIRE_RISK
H009	11	189.1	190.7	1.6	SOUTH WEST HIGHWAY	South	2/10/2007	40	0	1	1	0	0	1	0	1	0	0	2	2	**3**	**5**	FIRE_RISK
H009	12	190.7	192.5	1.8	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	2	0	2	0	2	1	2	0	2	1	0	**2**	**10**	FIRE_RISK
H009	13	192.5	193	0.5	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	0	0	0	0	0	1	2	0	0	1	1	**2**	**3**	FIRE_RISK
H009	14	193	193.6	0.6	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	2	1	2	2	2	1	2	1	2	1	0	**8**	**10**	FIRE_RISK
H009	15	193.6	194.9	1.3	SOUTH WEST HIGHWAY	South	2/10/2007	40	1	1	0	1	1	1	1	1	1	1	2	2	**6**	**7**	WATSONIA FIRE_RISK
H009	16	194.9	196.1	1.2	SOUTH WEST HIGHWAY	South	2/10/2007	40	2	2	1	2	1	2	1	1	2	2	1	0	**8**	**9**	WATSONIA FIRE_RISK
H009	17	196.1	196.4	0.3	SOUTH WEST HIGHWAY	South	2/10/2007	40	2	2	2	2	2	2	1	1	1	1	0	0	**8**	**8**	WATSONIA FIRE_RISK
H009	18	196.4	197.58	1.18	SOUTH WEST HIGHWAY	South	2/10/2007	40	2	2	1	1	2	2	1	1	1	1	2	2	**9**	**9**	WATSONIA FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
H009	19	197.58	198.68	1.1	SOUTH WEST HIGHWAY	South	2/10/2007	40	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA FIRE_RISK
H009	20	198.68	199.68	1	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	1	1	1	1	0	0	1	1	1	1	2	2	**6**	**6**	WATSONIA FIRE_RISK
H009	21	199.68	200.18	0.5	SOUTH WEST HIGHWAY	South	2/10/2007	40	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA FIRE_RISK
H009	22	200.18	200.68	0.5	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	0	2	0	2	0	2	0	2	0	0	2	**10**	**2**	WATSONIA FIRE_RISK
H009	23	200.68	202.28	1.6	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	2	1	1	1	1	2	2	2	2	0	0	**8**	**8**	WATSONIA FIRE_RISK
H009	24	202.28	202.68	0.4	SOUTH WEST HIGHWAY	South	2/10/2007	40	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA LOVE_GRASS FIRE_RISK
H009	25	202.68	204.27	1.59	SOUTH WEST HIGHWAY	South	2/10/2007	20	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	WATSONIA LOVE_GRASS FIRE_RISK
H009	26	204.27	204.97	0.7	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WATSONIA PATTERSONS_CURSE FIRE_RISK
H009	27	204.97	206.39	1.42	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	2	1	1	2	2	2	2	2	2	0	1	**9**	**10**	WATSONIA FIRE_RISK
H009	28	206.39	208.17	1.78	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	1	1	1	1	1	2	1	1	1	0	0	**7**	**5**	WATSONIA FIRE_RISK
H009	29	208.17	209.27	1.1	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	1	0	1	0	1	0	1	0	1	1	0	**1**	**5**	FIRE_RISK
H009	30	209.27	210.07	0.8	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	0	0	0	0	0	0	0	0	0	2	1	**2**	**1**	WATSONIA LOVE_GRASS FIRE_RISK
H009	31	210.07	211.12	1.05	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	1	1	0	0	0	0	1	1	0	0	1	0	**3**	**2**	WATSONIA FIRE_RISK
H009	32	211.12	211.82	0.7	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	1	1	0	0	0	0	0	0	0	0	1	0	**2**	**1**	FIRE_RISK
H009	33	211.82	212.22	0.4	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	1	2	0	2	0	2	0	2	0	0	0	**10**	**1**	FIRE_RISK
H009	34	212.22	212.42	0.2	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	1	2	0	2	0	2	0	2	0	0	1	**10**	**2**	FIRE_RISK
H009	35	212.42	213.51	1.09	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	2	2	1	1	1	1	1	1	2	2	0	0	**7**	**7**	WATSONIA FIRE_RISK
H009	36	213.51	215.82	2.31	SOUTH WEST HIGHWAY	South	2/10/2007	20	1	1	0	0	1	1	1	1	0	0	1	1	**4**	**4**	WATSONIA FIRE_RISK
H009	37	215.82	216.26	0.44	SOUTH WEST HIGHWAY	South	2/10/2007	Unknown	0	0	0	0	0	0	1	1	1	0	1	1	**3**	**2**	WILD_RADISH FIRE_RISK
H009	38	216.26	217.36	1.1	SOUTH WEST HIGHWAY	South	2/10/2007	40	1	1	1	1	1	1	1	1	0	0	1	1	**5**	**5**	WATSONIA BLACKBERRY FIRE_RISK
H009	39	217.36	217.86	0.5	SOUTH WEST HIGHWAY	South	2/10/2007	40	1	1	0	1	0	0	1	1	0	0	1	1	**3**	**4**	BRIDAL_CREEPER FIRE_RISK

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
H009	40	217.86	219.66	1.8	SOUTH WEST HIGHWAY	South	2/10/2007	40	1	0	0	0	0	0	1	1	0	0	1	1	**3**	**2**	WATSONIA FIRE_RISK
M013	1	0	0.65	0.65	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	WILD_RADISH WATSONIA
M013	2	0.65	2.27	1.62	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	2	0	1	0	2	0	1	1	2	2	0	0	**8**	**3**	
M013	3	2.27	2.6	0.33	DONNYBROOK - KOJONUP RD	East	2/10/2007	Unknown	2	2	2	2	2	2	1	1	2	1	0	0	**9**	**8**	AFRICAN _LOVE_GRASS
M013	4	2.6	3.4	0.8	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	0	0	0	0	0	0	0	0	0	2	2	**2**	**2**	AFRICAN _LOVE_GRASS WILD_RADISH
M013	5	3.4	4.3	0.9	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	2	2	2	1	2	1	1	1	0	0	2	1	**9**	**6**	
M013	6	4.3	6.28	1.98	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	0	0	0	0	0	0	0	0	0	1	1	**1**	**1**	WATSONIA
M013	7	6.28	8.5	2.22	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	2	2	1	1	1	2	1	1	0	0	1	1	**6**	**7**	AFRICAN_LOVE_GRASS WATSONIA
M013	8	8.5	10.5	2	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	2	1	2	1	1	0	0	1	1	**4**	**8**	BLACKBERRY
M013	9	10.5	12.4	1.9	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	2	0	1	0	2	0	1	0	0	2	1	**2**	**7**	AFRICAN_LOVE_GRASS
M013	10	12.4	14.11	1.71	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	0	2	1	1	0	0	2	1	**4**	**7**	AFRICAN_LOVE_GRASS
M013	11	14.11	15.4	1.29	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	0	2	1	1	0	0	1	1	**3**	**7**	AFRICAN_LOVE_GRASS
M013	12	15.4	16	0.6	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	2	2	1	1	2	2	1	1	0	0	2	1	**8**	**7**	AFRICAN_LOVE_GRASS WATSONIA
M013	13	16	17.68	1.68	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	0	2	1	1	0	0	2	1	**4**	**7**	WATSONIA
M013	14	17.68	19	1.32	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	2	0	1	0	2	0	1	0	0	0	1	**0**	**7**	WATSONIA
M013	15	19	20.9	1.9	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	1	0	1	0	1	0	0	0	0	2	2	**3**	**5**	AFRICAN_LOVE_GRASS WATSONIA
M013	16	20.9	22.6	1.7	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	1	1	1	1	0	1	1	1	**4**	**7**	WILD_RADISH AFRICAN_LOVE_GRASS_TREE_WEEDS
M013	17	22.6	23.5	0.9	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	1	0	0	0	1	1	0	0	1	1	1	**3**	**4**	
M013	18	23.5	24.4	0.9	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	2	0	1	0	1	0	1	0	1	1	1	**1**	**7**	
M013	19	24.4	26	1.6	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	1	1	1	1	0	2	1	1	**4**	**8**	AFRICAN_LOVE_GRASS WATSONIA
M013	20	26	26.7	0.7	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	2	2	1	1	2	1	2	1	0	2	1	1	**8**	**8**	AFRICAN_LOVE_GRASS WATSONIA
M013	21	26.7	28.1	1.4	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	0	1	0	1	0	2	1	1	**2**	**8**	AFRICAN_LOVE_GRASS

Road#	Sect#	OD Start (km)	OD Finish (km)	Sect length	Road Name	Direction	Date	Width	Native Vegetation		Extent of Vegetation		# Native Plant Species		Weeds		Value as Biol. Corridor		Adjoining Landuse		Conservation Value Score (0-12)		Overlay Data
								(m)	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	**Left**	**Right**	(Listed if Present)
M013	22	28.1	28.7	0.6	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	0	0	0	0	0	0	0	0	0	1	2	**1**	**2**	AFRICAN_LOVE_GRASS
M013	23	28.7	29.6	0.9	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	2	0	1	0	0	0	1	0	0	1	1	**1**	**5**	AFRICAN_LOVE_GRASS
M013	24	29.6	31.5	1.9	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	2	0	1	0	1	0	0	0	1	1	1	**1**	**6**	AFRICAN_LOVE_GRASS WATSONIA
M013	25	31.5	34	2.5	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	1	1	1	0	0	1	1	1	**4**	**6**	AFRICAN_LOVE_GRASS WATSONIA
M013	26	34	35.3	1.3	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	1	1	2	1	1	0	1	1	1	**4**	**8**	WATSONIA
M013	27	35.3	36	0.7	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	0	2	1	2	1	1	1	1	1	1	**5**	**9**	AFRICAN_LOVE_GRASS WILD_RADISH
M013	28	36	37.5	1.5	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	1	0	0	0	0	0	0	0	0	1	2	**1**	**3**	
M013	29	37.5	38.1	0.6	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	1	0	0	0	0	1	0	0	0	1	2	**2**	**3**	
M013	30	38.1	38.4	0.3	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	0	2	0	2	0	2	0	2	0	1	1	0	**1**	**9**	
M013	31	38.4	39.2	0.8	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	1	2	1	2	1	2	2	2	0	1	1	0	**6**	**9**	
M013	32	39.2	39.91	0.71	DONNYBROOK - KOJONUP RD	East	2/10/2007	40	2	2	2	2	2	2	2	2	2	1	0	0	**10**	**9**	
M042	1	21.49	22.1	0.61	GOODWOOD RD	East	9/11/2007	unknown	2	2	1	2	1	2	2	2	0	2	1	0	**7**	**10**	FIRE_RISK
M042	2	22.1	24.22	2.12	GOODWOOD RD	East	9/11/2007	0	2	2	1	2	1	2	1	2	0	1	2	0	**7**	**9**	FIRE_RISK
M042	3	24.22	24.74	0.52	GOODWOOD RD	East	9/11/2007	0	1	1	0	0	1	1	1	1	0	0	2	2	**5**	**5**	FIRE_RISK
M042	4	24.74	25.06	0.32	GOODWOOD RD	East	9/11/2007	0	2	2	1	1	1	1	2	2	2	2	2	2	**10**	**10**	FIRE_RISK
M042	5	25.06	25.68	0.62	GOODWOOD RD	East	9/11/2007	0	1	0	0	0	0	0	0	0	0	0	2	2	**3**	**2**	FIRE_RISK
M042	6	25.68	26.9	1.22	GOODWOOD RD	East	9/11/2007	0	2	2	1	1	1	1	2	2	2	2	1	1	**9**	**9**	FIRE_RISK

Key to table interpretation:
OD Start/Finish: is the odometer reading for the section start and finish points.
Direction: is the direction travelled by the surveyors when assessing the roadside.
Width: is the width of the road reserve.

The following attributes are ranked from 0 (lowest level) to 2 (highest level) as per the descriptions below.
Native Vegetation: score based on the number of native vegetation layers present (ie) tree, shrub and/or ground cover layers.
Extent of Vegetation: score is based on the proportion of native vegetation in the total roadside vegetation.
#Native Plant Species: score is based on the diversity of plants species in the roadside vegetation.
Value as Biological Corridor: score is based on the number of roadside vegetation attributes present that are important as fauna habitat.
Adjoining Landuse: score is based on the extent of native vegetation in the surrounding landscape (higher scores indicate lower levels of native vegetation in the surrounding landscape).
Weeds: score is based on level of weed infestation (higher scores indicate lower levels of weed infestation).

Appendix

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APPENDIX 3

Road names and lengths: Shire of Donnybrook-Balingup

(Source: Main Roads WA 2008)

Road Number	Road Name	Road length (km)
2170290	ADRIAN'S RD - NEW	0.17
2170160	AIRSTRIP RD	3.08
2170011	ALLNUTT ST	1.07
2170134	AMMON RD	6.44
2170136	AMMONS TRACK	1
2170129	ANDERSON RD	2.82
2170297	ARBORETUM RD	0.12
2170040	ARGYLE RD	1.53
2170035	ATHERTON RD	2.39
2170048	ATTWOOD RD	3.3
2170231	B MARSHALL RD (NO NAME)	0.17
2170256	BAILEY HTS	0.92
2170284	BALIEU ST	0.12
2170321	BALINGA DRIVE	0.85
2170282	BALINGUP RACE COURSE RD	0.23
2170308	BALINGUP-NANNUP RD	21.6
2170075	BANGADANG RD	2.78
2170148	BATHGATE RD	2.23
2170033	BAXTER ST	0.19
2170017	BEELERUP RD	5.95
2170031	BENDALL RD	1.35
2170099	BENTLEY RD	1.2
2170002	BENTLEY ST	2.56
2170219	BEST RD (F)	8.78
2170263	BILLINGHURST RD	1.03
2170307	BIRDWOOD PARK DRIVE	0.35
2170169	BIRDWOOD PARK RD	0.32
2170116	BLIGH ST	0.59
2170196	BOND ST	0.5
2170190	BOULDER ST	0.21
2170305	BOUNDARY RD	0.67
2170049	BOWMAN RD	2.25
2170264	BRAZIER RD	0.42
2170010	BRIDGE ST	0.96
2170178	BROCKMAN RD	0.25
2170168	BROOK ST	0.26
2170018	BROOKHAMPTON RD	18.22
2170069	BYRON RD	1.74
2170070	BYRON SPUR RD	0.58
2170113	CAIN RD	0.72
2170066	CAMELUP RD	5.16
2170300	CAMILLERI STRET	0.09
2170332	CAMP GULLY RD	3.63
2170268	CAMPBELL ST	0.19
2170043	CAREY ST	0.14
2170217	CAREY ST	0.1
2170280	CASSIA RD - NEW	4.2
2170205	CASTLE PL	0.28
2170289	CASTLE ST - NEW (KIRUP)	1.57
2170022	CEMETERY RD	0.79

Road Number	Road Name	Road length (km)
2170163	CEMETERY RD	0.53
2170260	CENTRAL AVE	0.23
2170079	CHAPMAN RD	1.61
2170014	CHARLEY CREEK RD	10.2
2170237	CHARLTON RD	1.16
2170230	CHERRYDALE WAY	0.55
2170030	CHESTNUT DRIVE	3.05
2170186	CIRILLO RD	1.24
2170121	CLAYMORE RD	6
2170277	CLIFF'S RD - NEW	0.05
2170003	COLLINS ST	1
2170078	COMPAGNONE RD	0.35
2170021	CORA ST	0.34
2170203	CRACKNELL PL	0.15
2170071	CROSS RD	0.44
2170342	CROWLEY PL	0.15
2170154	CUNDINUP-KIRUP RD	15.46
2170044	DALE ST	0.19
2170249	DARBASHIRE RD	0.35
2170213	DAWSON PL	0.07
2170039	DAWSON RD	1.55
2170165	DE LISLE ST	0.59
2170177	DEARLE ST	0.42
2170184	DELAPORTE RD	1.61
2170059	DHU RD	0.82
2170060	DHU SPUR RD	0.95
2170270	DONNYBROOK MAIN ACCESS RD	0.13
2170324	DOWRICK RD	0.63
2170101	DUBOIS RD	1.29
2170301	EDEN VALLEY ACCESS	0.87
2170210	EDWARD RD	0.53
2170317	EEDLE DALE RD	0.29
2170100	EGAN ACCESS RD	0.45
2170107	EGAN ST	0.48
2170257	ELIOTT RI	0.4
2170050	ELLIOTT ST	0.41
2170004	EMERALD ST	1
2170162	EWARTS RD	5.67
2170254	F SAMSA RD (NO NAME)	0.37
2170034	FARLEY RD	4.96
2170273	FARLEYS SPUR	0.21
2170016	FERGUSON RD	4.8
2170080	FIELDS RD	1.98
2170302	FIONA RD - NEW	2.37
2170081	FISHER RD	0.24
2170032	FLEET ST	0.89
2170052	FORREST RD	3.14
2170173	FORREST ST	0.36
2170283	FOWLER RD - NEW	0.29
2170241	FOWLER ST	0.34
2170083	FRAMMARTINO RD	1.74
2170097	FRONTINO RD	0.67
2170330	FROST RD	0.83
2170185	GARDENER RD	3.52
2170058	GARDINER RD	0.45
2170073	GARDINER RD	0.76

Road Number	Road Name	Road length (km)
2170085	GARDINER RD	0.65
2170220	GAVINS RD (F)	11.4
2170086	GEMMELL RD	2.1
2170278	GERALDINES RD	0.47
2170145	GLENARDEN RD	4.98
2170215	GOLF CLUB RD	0.34
2170053	GOODWOOD RD	2.2
2170322	GRANDIS GV	0.06
2170132	GREENBUSHES RD	11
2170141	GRIMWADE RD	31.92
2170138	GRIMWADE WILGA RD	16.24
2170061	GRIST RD	1.89
2170335	GRUMS RD	0.1
2170151	GUBLERS RD	1.6
2170076	GUIDICI RD	0.36
2170064	HACKETT RD	1.06
2170265	HAMILTON ST	1.09
2170211	HARDY PL	0.39
2170153	HAWTER RD	2.45
2170262	HAWTER ST	0.35
2170144	HAY RD	5.8
2170084	HEARLE RD	3.08
2170243	HEARMAN & SHARP (NO NAME)	0.89
2170222	HICKMAN PL	0.28
2170072	HOLM RD	0.91
2170319	HOWLETT RAMBLE	2.5
2170274	HUNDLEY RD	3.08
2170114	HUNTER ST	0.23
2170020	HURST RD	3.99
2170008	IRISHTOWN RD	4.14
2170041	JARRAHWOOD RD	3.57
2170130	JAYES RD	8.29
2170172	JAYES RD	0.3
2170291	JEFFREY'S RD - NEW	0.07
2170286	JERRIES LANE - NEW	1
2170240	JOHNSTON ST	0.45
2170095	JONES RD	0.79
2170183	JONES RD	2.7
2170266	K MILLER RD (NO NAME)	0.3
2170320	KATRINA HEIGHTS	0.35
2170110	KELLY ST	1.9
2170276	KELPIE RD - NEW	0.15
2170202	KING RD	0.68
2170027	KING SPRING RD	8.71
2170253	KIRKPATRICK RD	1.14
2170127	KIRUP GRIMWADE RD	13.62
2170279	KNAPTON RD - NEW	0.68
2170221	KNIGHTS RD	1.9
2170238	L. AMMON RD	0.44
2170098	LEACH RD	0.8
2170309	LECHENAULTIA CIRCLE (LEFT)	0.29
2170314	LECHENAULTIA CIRCLE (RIGHT)	0.09
2170228	LEE RD	0.39
2170082	LESTER FARLEY RD	0.29
2170188	LEWANA RD (F)	1.7
2170199	LITTLE RD	2.38

Road Number	Road Name	Road length (km)
2170125	LOGIUDICE RD	0.87
2170029	LOWDEN GRIMWADE RD	19.72
2170166	LUKIS RD	1.46
2170207	LUKIS ST	0.28
2170096	LYONS RD	1.31
2170023	MACQUARIE ST	1.81
2170157	MADER RD	4.18
2170159	MAIDMENT RD	5.08
2170149	MAILMAN RD	8.21
2170046	MANDALAY RD	5.17
2170150	MARDAWARRA RD	3.19
2170310	MARGINATA DRIVE	0.28
2170006	MARMION ST	0.84
2170055	MARSHALL RD	4.28
2170306	MARTELLA RD	0.13
2170233	MARWICK RD	0.88
2170259	MASLIN ST	0.34
2170327	MAUGER RD	0.3
2170229	MCGUTCHEON RD	0.35
2170208	MEAD ST	0.73
2170181	MEAGHER RD	1.41
2170292	MENARD ACCESS - NEW	0.61
2170200	MEOTTI RD	1.94
2170312	MERRIFIELD VIEW	1.52
2170206	MIDDLETON ST	0.11
2170209	MILLER RD	0.87
2170193	MILO RD	2.73
2170057	MITCHELL RD	3.37
2170201	MITCHELL SPUR	1.25
2170152	MITCHELL ST	0.64
2170331	MONTGOMERY RD	0.98
2170176	MOORE ST	0.26
2170063	MORGAN RD	1.8
2170102	MORRISSEY RD	3.5
2170156	MULLALYUP RD	4.1
2170218	MUNGALUP RD (F)	3.73
2170235	NASH PLACE	0.77
2170047	NEEDES HILL RD	1.15
2170124	NEWLANDS RD	3.14
2170094	NEWMAN RD	0.32
2170119	NIEUWENHUYZE RD	1.69
2170315	NIOKA DRIVE	1.75
2170311	NYUTSIA CLOSE	0.1
2170234	OFF CAMELUP RD (NO NAME)	1.71
2170246	OFF MORGAN RD (NO NAME)	0.55
2170250	OFF UPPER CAPEL RD (NO NAME)	0.2
2170244	OFF VERNON RD (NO NAME)	0.25
2170248	OFF WHITES RD (NO NAME)	1.2
2170180	OFFERS RD	1.61
2170036	OLD BROOKHAMPTON RD	5
2170336	OLD NOGGERUP RD	0.1
2170143	OLD PADBURY RD	2.35
2170236	OLDMEADOW RD	0.95
2170226	OXFORD ST	0.18
2170198	PADMAN ST	0.23
2170192	PALMER ST	1.35

Road Number	Road Name	Road length (km)
2170295	PAPALIAS RD	0.61
2170090	PASQUINI RD	0.84
2170105	PATANE RD	1.94
2170042	PEARLS RD	1.43
2170288	POSSUM RD - NEW	0.43
2170054	PRESTON PARK RD	0.37
2170224	PRICE RD	3.07
2170131	PROWSE RD	2.06
2170051	PUGSLEY RD	1.5
2170155	RADFORD RD	2
2170182	RADFORDS RD	0.97
2170187	RADIATA RD (F)	10.5
2170271	RAILWAY RESERVE RD	0.6
2170261	RAILWAY ST	0.37
2170232	RAINBOW DOWNS	0.46
2170009	RAMSAY TCE	0.49
2170316	RANGEVIEW HEIGHTS	0.29
2170179	RANSON RD	1.09
2170122	RAVENSCLIFFE RD	16.14
2170109	RECREATIONAL DRIVE	0.1
2170298	REGENT ST	0.1
2170001	RESERVE ST	0.38
2170062	RIVER RD	1.2
2170171	ROBERTS ST	0.76
2170281	ROB'S RD - NEW	0.38
2170304	ROSEDEAN LANE	0.34
2170323	ROSEGUM COURT	0.07
2170223	RUSSELL CT	0.15
2170239	RUSSELL RD	0.29
2170245	RUSSELL TRIGWELL RD (NO NAME)	0.24
2170158	RUSSELLS RD	1.12
2170117	RYALLS RD	10.74
2170093	SADDLETON RD	0.22
2170303	SALMON GUM RETREAT	0.03
2170338	SAM 2	0.1
2170019	SANDHILLS RD	6.2
2170325	SEARS CLOSE	0.31
2170037	SHAMROCK ST	0.08
2170038	SHARP RD	2.24
2170212	SHARP ST	0.12
2170108	SHORT ST	0.58
2170191	SHORTELL RD	0.1
2170088	SILIPO RD	0.35
2170195	SMITH ST	0.45
2170142	SOUTHAMPTON RD	20.22
2170175	SPENCER RD	0.1
2170146	SPRING GULLY RD	1.43
2170189	SPRUCE RD (F)	1.21
2170012	STATION ST	0.18
2170115	STATION ST	0.16
2170216	STATION ST	0.31
2170174	STEERE RD	0.59
2170015	STEERE ST	1.06
2170296	STEERE ST EAST	0.2
2170293	STRANG RD - NEW	0.91
2170318	STREMPEL WAY	0.13

Road Number	Road Name	Road length (km)
2170269	TALLOWWOOD DRIVE	0.84
2170068	TASSONE RD	1.46
2170170	TEEDE ST	0.12
2170118	THOMAS RD	3.89
2170005	THOMSON BROOK RD	10.23
2170104	THOMSON RD	2.16
2170247	THOMSON ST	0.78
2170194	TIMMS ST	0.27
2170087	TORRIDON RD	2.37
2170204	TORRISI PL	0.21
2170065	TOWERS RD	2.18
2170337	TOWERS RD	0.1
2170251	TRAMLINE RD	0.67
2170045	TREVENA RD	6.37
2170056	TRIGWELL RD	0.97
2170025	TRIGWELL ST	0.76
2170112	TRIGWELL ST EAST	0.69
2170091	TUCKER RD	0.44
2170067	TUIA RD	0.89
2170147	TUIA RD	5.5
2170326	TURNERS ACCESS RD	1
2170013	UNION ST	0.48
2170028	UNION ST SOUTH	0.32
2170225	UNKNOWN-OFF PROWSE SHORT CUT	1.02
2170007	UPPER CAPEL RD	27.03
2170252	VALENTINE RD	3.06
2170294	VALLELONGA RD - NEW	0.44
2170089	VERNON RD	5.25
2170197	VICTORIA PDE	0.26
2170214	VICTORY LA	0.11
2170103	WADE RD	3.19
2170139	WALKER RD	6.5
2170242	WALKER RD	1.35
2170164	WALTER RD	1.29
2170135	WALTERS TRACK	3.16
2170255	WARNER ST	1.31
2170161	WATERS RD	0.24
2170313	WATTLE COURT	0.37
2170133	WESTLINGTON RD	0.93
2170123	WHITE RD	6.05
2170258	WIDDUP RD	0.48
2170026	WILDMERE RD	3.53
2170137	WILGA RD	10.86
2170092	WILLIAM RD	0.48
2170120	WILLIAMS RD	0.77
2170128	WISHART RD	1.6
2170167	WOOD RD	0.13
2170287	WRINGE RD - NEW	1.27
2170074	YABBERUP RD	1.89
2170106	YELVERTON RD	0.48
2170285	YELVERTON ST KIRUP	0.08
2170024	YELVERTON ST SOUTH	0.34

APPENDIX 4

Flora species in the Shire of Donnybrook- Balingup (Source: W.A Herbarium)

Note: not a comprehensive list and may not be the most up to date information available.

* = Weed species
P = Priority species
R = Rare species

Acacia alata var. *alata*
Acacia applanata
Acacia browniana var. *browniana*
Acacia browniana var. *obscura*
**Acacia dealbata*
**Acacia dealbata* subsp. *dealbata*
Acacia dentifera
Acacia divergens
Acacia extensa
Acacia flagelliformis **P4**
Acacia huegelii
Acacia insolita subsp. *insolita*
Acacia lateriticola
Acacia mearnsii
**Acacia melanoxylon*
Acacia mooreana
Acacia myrtifolia
Acacia nervosa
Acacia obovata
Acacia preissiana
Acacia pulchella
Acacia pulchella var. *glaberrima*
Acacia pulchella var. *pulchella*
Acacia saligna subsp. *pruinescens*
Acacia saligna subsp. *stolonifera*
Acacia semitrullata **P3**
Acacia stenoptera
Acacia teretifolia
Acacia urophylla
Acacia varia var. *varia*
**Acaena echinata*
**Acaena echinate* var. *echinata*
Acaena novae-zelandiae
Acetosella vulgaris
Actinotus glomeratus
Adenanthos meisneri
Adenanthos obovatus
Adenanthos sp. Whicher Range (G.J. Keighery 9736)
Adiantum aethiopicum
Agrostocrinum hirsutum
**Aira cupaniana*
**Allium triquetrum*
Allocasuarina fraseriana
Allocasuarina humilis
Allocasuarina thuyoides
Alternanthera denticulata
Alternanthera nodiflora
Amperea simulans
Amphipogon amphipogonoides
Amphipogon debilis
Amphipogon laguroides subsp. *laguroides*
Amphipogon turbinatus
Anagallis arvensis
Anagallis arvensis var. *arvensis*
Anagallis arvensis var. *caerulea*
Anarthria gracilis
Anarthria prolifera
Anarthria scabra
Andersonia caerulea
Andersonia involucrata
Andersonia lehmanniana
Anigozanthos bicolor
Anigozanthos bicolour subsp. *decrescens*
Anigozanthos flavidus
Anigozanthos humilis subsp. *humilis*
Anigozanthos manglesii subsp. *manglesii*
Anthemis cotula **Y**
Aotus cordifolia **P3**
Aphelia cyperoides
Arctotheca calendula
**Asparagus asparagoides*
Asplenium aethiopicum **P4**
Astartea sp. Juniperina (G.J. Keighery 9558)

Asteridea pulverulenta

Astroloma ciliatum
Astroloma drummondii
Astroloma pallidum
Austrodanthonia pilosa
Austrostipa compressa
Austrostipa flavescens

Babiana angustifolia
Baeckea camphorosmae
Baeometra uniflora
Banksia grandis
Banksia seminuda
Banksia sphaerocarpa var. *sphaerocarpa*
Bartsia trixago
Baumea preissii subsp. *laxa*
Baumea rubiginosa
Billardiera floribunda
Billardiera fraseri
Billardiera fusiformis
Billardiera variifolia
Bolboschoenus caldwellii
**Borago officinalis*
Boronia crenulate subsp. *pubescens*
Boronia defoliata
Boronia dichotoma

Boronia fastigiata

Boronia humifusa **P1**
Boronia megastigma
Bossiaea aquifolium subsp. *aquifolium*
Bossiaea eriocarpa
Bossiaea linophylla
Bossiaea ornata
Brachyscome iberidifolia
**Brassica napus*
**Brassica tournefortii*
**Briza maxima*
**Briza minor*
**Bromus diandrus*
**Bromus hordeaceus*
**Bromus madritensis*
Buellia stellulata
Burchardia congesta
Burchardia multiflora

Caesia micrantha
Caladenia attingens subsp. *attingens*

Caladenia ferruginea

Caladenia flava
Caladenia flava subsp. f*lava*
Caladenia infundibularis
Caladenia lobata

Caladenia longiclavata
Caladenia macrostylis
Caladenia marginata
Caladenia nana subsp. *nana*
Caladenia nana subsp. *unita*
Caladenia reptans subsp. *reptans*
Caladenia uliginosa subsp. *candicans*
Caladenia uliginosa subsp. *uliginosa*
Calicium abietinum
Calicium glaucellum
Calothamnus pallidifolius
Calothamnus sanguineus
Calytrix flavescens
Calytrix leschenaultii
Calytrix variabilis
Carthamus lanatus
Cartonema philydroides
Cassytha glabella
Cassytha racemosa
Caustis sp. Boyanup (G.S. McCutcheon 1706) **P1**

Centaurium erythraea

Centipeda cunninghamii
Centrolepis aristata
Centrolepis pilosa
Chamaescilla corymbosa
Chamaescilla corymbose var. corymbosa
Cheiranthera parviflora
Chenopodium ambrosioides
Chordifex laxus
Choretrum lateriflorum
Choretrum pritzelii
Chorizandra enodis
Chorizema cordatum
Chorizema glycinifolium
Chorizema retrorsum
Chorizema rhombeum
Chrysothrix candelaris
Cicendia filiformis
Cladia aggregata
Cladia schizopora
Cladonia capitellata
Cladonia cervicornis subsp. *verticillata*
Cladonia krempelhuberi
Cladonia ochrochlora
Cladonia ramulosa
Cladonia rigida
Cladonia scabriuscula
Cladonia sulcata
Cladonia tessellata
Clematis pubescens
Comesperma calymega
Comesperma ciliatum
Comesperma virgatum
Conospermum capitatum
Conospermum capitatum subsp. *glabratum*
Conospermum flexuosum subsp. *laevigatum*
Conostephium pendulum
Conostylis aculeata
Conostylis aculeate subsp. *aculeata*
Conostylis serrulata
Conostylis setigera
Conostylis setigera subsp. *setigera*
**Conyza parva*
Conyza sumatrensis
Cortaderia selloana
Corybas abditus
Corybas recurvus
Corymbia calophylla
Corymbia haematoxylon
Cotula australis
Crepis foetida subsp. *foetida*

Cryptostylis ovata

Cuscuta epithymum
Cyanicula sericea
Cyathochaeta avenacea
Cyathochaeta equitans
Cynara cardunculus subsp. *flavescens*
**Cyperus tenellus*
Cyrtostylis huegelii
Cyrtostylis robusta
Cyrtostylis tenuissima
Cytogonidium leptocarpoides

Dampiera alata
Dampiera hederacea
Dampiera linearis
Darwinia citriodora
Dasypogon bromeliifolius
Dasypogon hookeri
Datura stramonium
Daucus glochidiatus
Daviesia cordata
Daviesia costata
Daviesia decurrens
Daviesia divaricata
Daviesia elongata **Y**

Daviesia horrida

Daviesia incrassate subsp. *incrassata*
Daviesia inflata
Daviesia physodes
Daviesia rhombifolia
Desmocladus asper
Desmocladus fasciculatus

Desmocladus flexuosus

Deyeuxia quadriseta
Dianella revoluta
Dichelachne crinita
Dillwynia uncinata
Diplolaenadrummondii
Dipogon lignosus
Disa bracteata
Diuris corymbosa
Diuris emarginata
Dodonaea ceratocarpa
Dodonaea viscose subsp. *angustissima*
Drakaea livida
Drosera bulbosa
Drosera erythrorhiza
Drosera erythrorhiza subsp. *erythrorhiza*
Drosera gigantea subsp. *gigantea*
Drosera glanduligera
Drosera leucoblasta
Drosera marchantii
Drosera marchantii subsp. *marchantii*
Drosera menziesii
Drosera microphylla
Drosera paleacea
Drosera pallida
Drosera rosulata
Drosera stolonifera
Dryandra lindleyana
Dryandra lindleyana subsp. *sylvestris*
Dryandra lindleyana var. *lindleyana*
Dryandra lindleyana var. *mellicula*

Echinochloa crusgalli
Echinopogon ovatus
Echinopogon ovatus var. *ovatus*

Ehrharta erecta

Elythranthera brunonis
Elythranthera emarginata
Epilobium billardiereanum subsp. *cinereum*
Eragrostis brownii
Eremocarpus setiger
Eriochilus dilatatus subsp. *magnus*
Eriochilus dilatatus subsp. *multiflorus*
Eucalyptus aspersa
Eucalyptus decipiens

Eucalyptus decipiens subsp. *decipiens*
Eucalyptus marginata
Eucalyptus marginata subsp. *marginata*
Eucalyptus patens
Eucalyptus rudis
Euchiton collinus

Ficinia nodosa
Flavoparmelia ferax
Flavoparmelia haysomii
Flavoparmelia soredians
Freesia albax leichtlinii
**Fumaria bastardii*

Gahnia decomposita
Galium divaricatum
Gastrodia lacista
Gastrolobium bilobum
Gastrolobium ebracteolatum
Gastrolobium praemorsum
Gastrolobium retusum
Gastrolobium spinosum
Genista monspessulana
Geranium retrorsum
Geranium solanderi
Gladiolus tristis
Gladiolus undulatus
Glischrocaryon aureum
Glischrocaryon aureum var. *angustifolium*
Glyceria maxima
**Gomphocarpus fruticosus*
Gompholobium capitatum
Gompholobium confertum
Gompholobium cyaninum
Gompholobium knightianum
Gompholobium marginatum
Gompholobium ovatum
Gompholobium polymorphum
Gompholobium preissii
Gompholobium tomentosum
Gonocarpus benthamii
Gonocarpus paniculatus
Goodenia arthrotricha **P2**

Goodenia eatoniana

Goodenia pulchella subsp. Wheatbelt (L.W. Sage & F. Hort 795)
Goodenia pusilla
Gratiola peruviana
Grevillea bipinnatifida subsp. *bipinnatifida*

Grevillea centristigma

Grevillea diversifolia subsp. *diversifolia*
Grevillea manglesioides
Grevillea pilulifera
Grevillea pulchella subsp. *ascendens*

Grevillea quercifolia

Grevillea ripicola **P4**
Grevillea trifida

Haemodorum discolor
Hakea amplexicaulis
Hakea ceratophylla
Hakea cyclocarpa
Hakea lissocarpha
Hakea prostrata
Hakea ruscifolia
Hakea stenocarpa
Hakea varia
Hardenbergia comptoniana
Helichrysum luteoalbum
Hemarthria uncinata var. *uncinata*
Hemiandra pungens
Hemigenia humilis
Hemigenia incana
Hemigenia pritzelii
Hemigenia rigida **P1**
Heterodea muelleri
Hibbertia amplexicaulis
Hibbertia commutata
Hibbertia cuneiformis
Hibbertia diamesogenos
Hibbertia ferruginea
Hibbertia hemignosta
Hibbertia hypericoides
Hibbertia pulchra var. *pulchra*
Hibbertia racemosa
Hibbertia silvestris

Hibbertia vaginata

**Hibiscus trionum* var. *trionum*
**Holcus lanatus*
Homalosciadium homalocarpum
Hovea chorizemifolia
Hovea elliptica
Hovea trisperma
Hyalosperma cotula
Hyalosperma simplex subsp. *simplex*
Hybanthus calycinus
Hybanthus debilissimus
Hybanthus floribundus subsp. *floribundus*
Hydrocotyle callicarpa
Hypocalymma angustifolium
Hypocalymma cordifolium subsp.*cordifolium*

Hypocalymma robustum

Hypochaeris glabra
Hypogymnia subphysodes
Hypogymnia subphysodes var. *subphysodes*
Hypolaena exsulca
Hypolaena fastigiata
Hypoxis glabella var. *leptantha*

Hypoxis occidentalis

Hypoxis occidentalis var. *quadriloba*

**Isolepis cernua* var. *setiformis*

Isolepis cyperoides

Isolepis fluitans var. *fluitans*
Isolepis hookeriana
**Isolepis marginata*
Isopogon buxifolius

Isopogon sphaerocephalus

Isotropis cuneifolia
**Ixia maculata*
**Ixia polystachya*

Jacksonia furcellata
Johnsonia acaulis
Johnsonia lupulina
Juncus amabilis
Juncus bufonius
Juncus caespiticius
Juncus capitatus
Juncus holoschoenus
Juncus pallidus
Juncus subsecundus

Kennedia carinata
Kennedia coccinea
Kennedia microphylla
Kennedia prostrata
Kennedia stirlingii
**Kickxia spuria*
Kunzea recurva

Labichea punctata
Lactuca serriola
Lagenophora huegelii

Lasiopetalum floribundum
Lathyrus tingitanus
**Lavandula stoechas*
Laxmannia sessiliflora
Laxmannia sessiliflora subsp. *australis*
Laxmannia squarrosa
Lechenaultia biloba
Lechenaultia expansa
Lepidobolus chaetocephalus
Lepidosperma costale
Lepidosperma effusum
Lepidosperma leptostachyum
Lepidosperma sp. Margaret River (B.J. Lepschi 1841)

Lepidosperma squamatum

Lepidosperma tenue
Lepidosperma tetraquetrum
Leporella fimbriata
Leptocarpus elegans
Leptocarpus tenax
Leptoceras menziesii
Leptomeria cunninghamii
Leptomeria squarrulosa
Leptospermum erubescens
Lepyrodia glauca
Lepyrodia muirii
Leucopogon australis
Leucopogon capitellatus
Leucopogon carinatus
Leucopogon conostephioides
Leucopogon corifolius
Leucopogon elatior
Leucopogon glabellus
Leucopogon mollis
Leucopogon oxycedrus
Leucopogon pendulus
Leucopogon propinquus
Leucopogon pulchellus
Leucopogon reflexus
Leucopogon sp. Margaret River (J. Scott 207)

Leucopogon sprengelioides

Leucopogon striatus
Leucopogon verticillatus
Levenhookia preissii
Levenhookia pusilla
Lindsaea linearis
**Linum trigynum*
Lobelia alata
Lobelia gibbosa
Logania campanulata
Logania serpyllifolia
Logania serpyllifolia subsp. *angustifolia*
Logania serpyllifolia subsp. *serpyllifolia*
Lomandra caespitosa
Lomandra drummondii
Lomandra hermaphrodita
Lomandra integra
Lomandra nigricans
Lomandra pauciflora
Lomandra preissii
Lomandra sericea
Lomandra sonderi
**Lonicera japonica*
Lotus subbiflorus
Loxocarya cinerea
Loxocarya magna **P3**

*Lupinus angustifolius

Luzula meridionalis
Lyginia barbata
Lyginia imberbis
Lysinema ciliatum

Macrozamia riedlei
Marianthus tenuis
Meeboldina coangustata
Meeboldina decipiens subsp. *decipiens*
Meeboldina roycei
Melaleuca incana subsp. *incana*
Melaleuca lateritia
Melaleuca parviceps
Melaleuca preissiana
Melaleuca rhaphiophylla
Melaleuca thymoides
Melaleuca viminea
Melaleuca viminea subsp. *viminea*

Mesomelaena graciliceps

Mesomelaena tetragona
Microlaena stipoides
Millotia tenuifolia
Mirbelia dilatata
Monotaxis occidentalis
Myriophyllum crispatum

Neurachne alopecuroidea
Nuytsia floribunda

Olax benthamiana
Olearia paucidentata
Opercularia apiciflora
Opercularia hispidula
Orobancheminor
Orthrosanthus laxus var. *laxus*
Orthrosanthus multiflorus

Ottelia ovalifolia

Oxalis exilis
Oxalis flava
Oxalis glabra
Pannoparmelia wilsonii
Paraporpidia glauca
Paraserianthes lophantha
Paraserianthes lophantha subsp. *lophantha*
Parentucellia latifolia
Parentucellia viscosa
Parmelina conlabrosa

*Paspalum distichum

Paspalum vaginatum
Patersonia babianoides
Patersonia juncea
Patersonia occidentalis var. *occidentalis*
Patersonia pygmaea
Patersonia umbrosa
Patersonia umbrosa var. *xanthina*
Pelargonium littorale subsp. *littorale*
**Pennisetum villosum*
Pentapeltispeltigera
Pentapeltissilvatica
Pericalymma ellipticum var. *ellipticum*
Pericalymma spongiocaule
Persicaria decipiens
Persicaria prostrata
Persoonia graminea
Persoonia longifolia
Persoonia saccata
Petrophile linearis
Petrophile striata
Petrorhagia dubia
Philotheca spicata
Philydrellapygmaea subsp. pygmaea
Phlebocarya ciliata
Phyllanthus calycinus
Pilostyles hamiltonii
Pimelea angustifolia
Pimelea ciliata subsp. *ciliata*
Pimelea imbricata var. *piligera*
Pimelea lehmanniana subsp. *nervosa*

Pimelea preissii

Pimelea rosea subsp. *rosea*
Pimelea suaveolens subsp. *suaveolens*

Pimelea sylvestris

Piptatherum miliaceum
Pithocarpapulchella var. *melanostigma*
Platysace filiformis
Platysace tenuissima
Platytheca galioides
Podocarpus drouynianus
Podolepis gracilis
Podolepis lessonii
Poranthera huegelii
Poranthera microphylla
Potamogeton drummondii
Praecoxanthus aphyllus
Pteridium esculentum
Pterostylis barbata
Pterostylis pyramidalis
Pterostylis recurva
Pterostylis sp. Crinkled leaf (G.J. Keighery 13426)
Pterostylis vittata
Ptilotus manglesii
Ptilotus polystachyus
Ptilotus sericostachyus subsp. *sericostachyus*
Pultenaea ochreata
Pultenaea reticulata
Pultenaea verruculosa
Pyrorchis nigricans
Pyrrhospora laeta
Pyrus communis **Y**

Quinetia urvillei

Ramboldia stuartii
Ranunculus amphitrichus
Ranunculus colonorum
**Raphanus raphanistrum*
Rhodanthe citrina
Richardia brasiliensis
**Rosa chinensis* x *multiflora*
**Rosa rubiginosa*
Rubus anglocandicans
**Rubus ulmifolius* var. *ulmifolius*

*Sagina apetala

Scaevola calliptera
Scaevola crassifolia
Schoenus curvifolius
Schoenus discifer
Schoenus nanus
Schoenus variicellae
Selaginellagracillima
**Senecio diaschides*
Senecio gilbertii **P1**
Senecio glomeratus subsp. *glomeratus*
Senecio hispidulus
Senecio multicaulis subsp. *multicaulis*
**Setaria verticillata*
**Sigesbeckia orientalis*
**Silene gallica* var. *quinquevulnera*
Siloxerus multiflorus
Silybum marianum
Sisymbrium orientale
Sonchus oleraceus
Sowerbaea laxiflora
**Sparaxis bulbifera*
**Sparaxis pillansii*
Spergula arvensis
Sphaerolobium drummondii
Sphaerolobium macranthum
Sphaerolobium medium
Sphaerolobium nudiflorum
Sphaerolobium scabriusculum
Sphenotoma capitatum
Stackhousia monogyna
Stirlingia latifolia
Stirlingia simplex
Stylidium acuminatum
Stylidium adnatum
Stylidium affine
Stylidium amoenum
Stylidium calcaratum
Stylidium ciliatum
Stylidium crassifolium
Stylidium guttatum
Stylidium junceum
Stylidium petiolare
Stylidium scandens
Stylidium schoenoides
Stylidium spathulatum
Stylidium uniflorum
Stylidiumutricularioides
Styphelia tenuiflora
Synaphea floribunda
Synaphea gracillima
Synaphea hians **P3**

Synaphea petiolaris

Synaphea petiolaris subsp. triloba

Synaphea sp. Donnybrook (B.J. Lepschi & T.R Lally BJL 3111)
Synaphea sp. Pinjarra (R.Davis 6578) **R**

Taxandria linearifolia
Taxandria parviceps

Tetraria capillaris

Tetraria octandra
Tetrarrhena laevis
Tetratheca affinis
Tetratheca hirsuta
Tetratheca parvifolia **P3**
Tetratheca setigera
Tetratheca virgata
Thelymitra crinita
Thelymitra macrophylla

Thomasia glutinosa

Thomasia grandiflora
Thomasia macrocalyx
Thomasia pauciflora
Thomasia purpurea
Thryptomene saxicola
Thysanothecium hookeri
Thysanothecium scutellatum
Thysanotus dichotomus
Thysanotus gageoides **P3**
Thysanotus manglesianus
Thysanotus multiflorus
Thysanotus sparteus
Thysanotus tenellus

*Tolpis barbata

Tolpis virgata
Trachymene pilosa
Tremandra diffusa
Tremandra stelligera
Trichocline spathulata
Tricoryne elatior
Trifolium hybridum var. *hybridum*
Trifolium subterraneum
Triglochin huegelii
Triglochin linearis
Tripterococcus brunonis
Tritonia crocata
Tritonia lineata
Trymalium floribundum subsp. *trifidum*

*Ulex europaeus

Usnea inermis
Usnea subalpina
Utricularia benthamii
Utricularia violacea

Velleia trinervis
Vellereophyton dealbatum
Verbascumvirgatum
Verbena bonariensis var. *bonariensis*
Veronica calycina
Verticordia densiflora var. *densiflora*

Villarsia latifolia

Villarsia parnassiifolia
Vinca major
Wahlenbergia littoricola
Wahlenbergia multicaulis
Wahlenbergia stricta
**Watsonia borbonica*
Watsonia meriana var. *bulbillifera*
Watsonia meriana var. *meriana*
**Watsonia versfeldii* var. *alba*
Wurmbea dioica
Wurmbea dioica subsp. *alba*

Xanthorrhoea acanthostachya
Xanthorrhoea gracilis
Xanthorrhoea preissii
Xanthosia atkinsoniana
Xanthosia candida
Xanthosia ciliata
Xanthosia huegelii
Xylomelumoccidentale

**Zantedeschia aethiopica*

Appendix

5

APPENDIX 5

Fauna species in the Shire of Donnybrook-Balingup (Source: W.A Museum, 2008)

Information provided by Western Australian Museum, Fauna Base, latitude/longitude coordinates:
-28.636, 115.148 and –29.032, 114.613

Note: not a comprehensive list.

* represents an introduced species.

BIRD SPECIES		
Acanthizidae	*Acanthiza apicalis*	Inland Thornbill
	Acanthiza apicalis leeuwinensis	
	Acanthiza chrysorrhoa	Yellow-rumped Thornbill
Accipitridae	*Accipiter fasciatus fasciatus*	Brown Goshawk
	Aquila audax	Wedge-tailed Eagle
	Haliastur sphenurus	Whistling Kite
Aegothelidae	*Aegotheles cristatus*	Australian Owlet Nightjar
	Aegotheles cristatus cristatus	Australian Owlet Nightjar
Ardeidae	*Ardea alba modesta*	
Climacteridae	*Climacteris rufa*	Rufous Treecreeper
Columbidae	*Phaps chalcoptera*	Common Bronzewing
Cracticidae	*Cracticus torquatus*	Grey Butcherbird
Cuculidae	*Cacomantis flabelliformis*	Fan-tailed Cuckoo
	Cacomantis flabelliformis flabelliformis	
	Chrysococcyx lucidus plagosus	
	Cuculus pallidus	Pallid Cuckoo
Dicaeidae	*Dicaeum hirundinaceum*	Mistletoebird
Falconidae	*Falco berigora berigora*	Brown Falcon
	Falco longipennis longipennis	Little Falcon
Halcyonidae	*Dacelo novaeguineae*	Laughing Kookaburra
Laridae	*Sterna leucoptera*	White-winged Black Tern
Maluridae	*Malurus elegans*	Red-winged Fairy-wren
	Stipiturus malachurus westernensis	
Meliphagidae	*Acanthorhynchus superciliosus*	Western Spinebill
	Anthochaera carunculata	Red Wattlebird
	Melithreptus chloropsis	White-naped Honeyeater
	Phylidonyris novaehollandiae longirostris	
Meropidae	*Merops ornatus*	Rainbow Bee-eater
Neosittidae	*Daphoenositta chrysoptera pileata*	
Pardalotidae	*Pardalotus punctatus xanthopyge*	Yellow-rumped Pardalote

	Pardalotus striatus	Striated Pardalote
Passeridae	*Stagonopleura oculata*	Red-eared Firetail
Petroicidae	*Eopsaltria australis griseogularis*	Western Yellow Robin
	Eopsaltria georgiana	White-breasted Robin
	Petroica cucullata	Hooded Robin
	Petroica multicolor campbelli	
Podargidae	*Podargus strigoides*	Tawny Frogmouth
	Podargus strigoides brachypterus	
Podicipedidae	*Tachybaptus novaehollandiae*	Australian Grebe
Procellariidae	*Pachyptila desolata*	Antarctic Prion
Psittacidae	*Calyptorhynchus banksii*	Red-tailed Black-Cockatoo
	Calyptorhynchus banksii naso	Forest Red-tailed Black Cockatoo
	Calyptorhynchus baudinii	Baudin`s Cockatoo
	Calyptorhynchus latirostris	Carnaby`s Cockatoo
	Calyptorhynchus sp.	
	Neophema elegans	Elegant Parrot
	Platycercus icterotis	Western Rosella
	Platycercus icterotis icterotis	
	Platycercus spurius	Red-capped Parrot
	Platycercus zonarius	Ring-necked Parrot
	Platycercus zonarius semitorquatus	Twenty-eight Parrot
	Polytelis anthopeplus anthopeplus	Regent Parrot
Rallidae	*Porzana tabuensis*	Spotless Crake
Sturnidae	*Sturnus vulgaris*	European Starling
Turnicidae	*Turnix varia varia*	Painted Bustard-Quail
Tytonidae	*Tyto novaehollandiae novaehollandiae*	Masked Owl

MAMMAL SPECIES		
Bovidae	*Bos Taurus**	Cow
Burramyidae	*Cercartetus concinnus*	Western Pygmy-possum
Cervidae	*Dama dama*	Fallow Deer
Dasyuridae	*Dasyurus geoffroii*	Chuditch
	Phascogale calura	Red-tailed Phascogale
	Phascogale tapoatafa	Brush-tailed Phascogale
	Phascogale tapoatafa tapoatafa	Brush-tailed Phascogale
	Sminthopsis gilberti	Gilbert`s Dunnart
	Sminthopsis griseoventer griseoventer	Grey-bellied Dunnart
Leporidae	*Oryctolagus cuniculus**	Rabbit
Macropodidae	*Macropus fuliginosus*	Western Grey Kangaroo
	Macropus irma	Western Brush Wallaby
	Setonix brachyurus	Quokka
Muridae	*Hydromys chrysogaster*	Water rat
	Mus musculus	House mouse

	Rattus fuscipes	Bush rat
	Rattus rattus	Black rat
Myrmecobiidae	*Myrmecobius fasciatus*	Numbat
Peramelidae	*Isoodon obesulus fusciventer*	
Phalangeridae	*Trichosurus vulpecula vulpecula*	Common Brushtail Possum
Pseudocheiridae	*Pseudocheirus occidentalis*	Western Ringtail Possum
Vespertilionidae	*Chalinolobus gouldii*	Gould`s wattled bat
	Chalinolobus morio	Chocolate Wattled Bat
	Nyctophilus geoffroyi	Lesser long-eared bat
	Nyctophilus timoriensis timoriensis	
	Vespadelus regulus	

REPTILE SPECIES

Elapidae	*Notechis scutatus*	Tiger snake
	Parasuta nigriceps	Black-backed snake
	Pseudonaja affinis affinis	Dugite
	Simoselaps bertholdi	Jan`s banded snake
Gekkonidae	*Christinus marmoratus*	Marbled Gecko
	Diplodactylus granariensis granariensis	Wheatbelt Stone Gecko
Pygopodidae	*Aprasia pulchella*	Granite Worm Lizard
	Aprasia repens	Sandplain Worm Lizard
Scincidae	*Cryptoblepharus plagiocephalus*	Wall Skink
	Ctenotus delli	
	Ctenotus labillardieri	Red-legged
	Egernia napoleonis	Southwestern Crevice Skink
	Hemiergis initialis initialis	Five-toed Earless Skink
	Hemiergis peronii peronii	Four-toed Earless Skink
	Hemiergis peronii tridactyla	Three-toed Earless Skink
	Hemiergis quadrilineata	Two-toed Earless Skink
	Lerista distinguenda	
	Menetia greyii	Common Dwarf Skink
	Morethia lineoocellata	
	Morethia obscura	Woodland Flecked Skink
	Tiliqua rugosa rugosa	Southwestern Bobtail
Typhlopidae	*Ramphotyphlops australis*	
Varanidae	*Varanus rosenbergi*	Southern Heath Monitor

FISH SPECIES

Galaxiidae	*Galaxias occidentalis*
	Galaxiella munda
	Galaxiella nigrostriata
Lepidogalaxiidae	*Lepidogalaxias salamandroides*
Nannopercidae	*Edelia vittata*
Percichthyidae	*Bostockia porosa*

Percidae	*Perca fluviatilis*	Redfin Perch

AMPHIBIA SPECIES

Hylidae	*Litoria adelaidensis*	Slender Tree Frog
	Litoria moorei	Motorbike Frog
Myobatrachidae	*Crinia georgiana*	Quacking Frog
	Crinia glauerti	Glauert`s Froglet
	Crinia pseudinsignifera	Bleating Froglet
	Geocrinia leai	Lea`s Frog
	Heleioporus eyrei	Moaning Frog
	Heleioporus inornatus	Whooping Frog

Appendix

6

ROADSIDE CONSERVATION COMMITTEE

GUIDELINES FOR MANAGING THE HARVESTING OF NATIVE FLOWERS, SEED AND TIMBER FROM ROADSIDES

Introduction

The diversity of values associated with roadside vegetation is well documented and acknowledged. In landscapes that have been extensively cleared, roadside vegetation provides essential wildlife corridors and habitat for local flora and fauna, including a number of threatened species. Hence it is highly desirable that this asset is managed in such a way as to ensure its conservation and sustainability.

The control and management of roadside vegetation is the responsibility of the road manager. Local government authorities, as road managers, are often approached for 'permission' to take various flora products from the roadside. These requests are mainly for wildflowers, native seed and firewood. Other products which may be sought include material for making didgeridoos, other types of craft wood, and stakes or poles for various purposes.

The implementation of these simple guidelines by road managers for the removal of flora and timber material from the roadsides will ensure that the vegetated roadside reserve is maintained for its biodiversity values, and the benefit of the community and road users.

In some instances the Roadside Conservation Committee (RCC) is supportive of the sustainable harvesting of flora, such as salvage (removal of dead material that is not significant wildlife habitat or is material to be destroyed by road works), or the selective collection of seed for revegetation. However, each case should be viewed on its merits and any decision to facilitate harvesting from roadsides should be referred to the Department of Conservation and Land Management (CALM) and/or the RCC for advice. Licences allowing the taking of roadside flora may be issued by CALM when supported by the road managing authority.

Legislation.

All Western Australian native flora is protected under the *Wildlife Conservation Act 1950*. Native flora includes all parts of a native plant, including its flowers, seed, and timber. Protection of native flora under the Act means that a person can only take (cut or remove) native flora from Crown land under a licence.

Road and rail reserves are Crown land, and hence a licence is required to cut or remove any native flora from a roadside or rail line. There is, however, a legal provision by which the road manager or their agent (contractor) does not require a licence whilst undertaking legitimate road management activities, such as those approved under the

Environmental Protection (Clearing of Native vegetation) Regulations 2004. This provision does not extend to other persons who wish to take protected flora from roadsides.

There are two types of licences that apply to the taking of protected flora from Crown land: Commercial Purposes Licences, where the flora is being taken for any commercial purpose; and Scientific or Other Prescribed Purposes Licences, where the protected flora is being taken for specific non-commercial purposes.

In issuing a licence, CALM is required to be assured that the activity will not compromise the conservation of the flora. In determining this, CALM will seek advice from the road manager to determine the potential impact of the activity, and how the activity relates to the management objectives being applied to that land.

A licence application may be refused if the activity is either a conservation concern, or does not fit in with the management objectives of the road manager. Once issued with a licence, a licensee must comply with the conditions of the licence that are designed to ensure the activity does not adversely impact on the conservation of the flora or the natural environment in which it occurs.

Commercial Wildflower Harvesting.

Western Australia is referred to as the *'Wildflower State'*, and its wildflowers attract a significant number of tourists each year. Roadside vegetation provides the most accessible, and hence the most commonly viewed, array of wildflowers, and as such are an important feature of regional tourism, potentially providing a significant financial boost to local economies. Wildflower harvesting in many instances detracts from the biodiversity and tourism values of the roadside and should therefore be discouraged.

The RCC considers that the flora on roadsides is reserved and maintained for public benefit. It is therefore seen as a contradiction of purpose to allow wildflowers on roadsides to be harvested, particularly for private gain, and this activity should not be permitted. However, there are situations where some harvesting may be considered, such as in very wide road reserves where the activity can be screened from road users and has a smaller impact on biodiversity. It is often the case that flora is harvested from roadsides because of the convenience of access, and harvesters should be directed to find alternative locations. Road managers have been discouraged from supporting or allowing such harvesting to occur, but if harvesting is to be approved, then the points provided at the end of these guidelines should be considered.

Seed Collection.

Throughout much of the south west, revegetation of the native flora is being undertaken to redress the problems that historic clearing has created. Increasingly, this revegetation is aimed at using local native flora so as to recreate the native vegetation to support biodiversity objectives. The paradox is that in many areas the native vegetation has been cleared to such an extent that adequate sources of native seed cannot be found for undertaking this work. Roadside vegetation may be one of few sources of such seed.

Seed production is an important component of remnant vegetation. Some species, called re-seeder species, regrow only from seed when plants are either killed by an event, such as fire, storm damage, or die as part of their natural cycle. The maintenance of adequate seed of these species is necessary as a precaution to ensure the continuity of the flora biodiversity.

Native seed is also an important food source for native fauna living in roadside vegetation, from ants to birds and mammals. The maintenance of this fauna is important for the continuing survival of the vegetation, especially where the fauna is required to pollinate the flora.

When seed is needed for *bona fide* revegetation projects within the local community, and no other source of local seed is available, then the managing authority may consider giving permission for collection of seed from roadsides. Such collection must be under the appropriate licence issued by CALM and the harvesting should be done in a way that does not endanger the long-term survival of the roadside vegetation.

Where seed collection is to be authorised on roadsides, the road manager should consider the points listed at the end of these guidelines. Specific consideration should be given to the methods that are approved for harvesting the seed, the quantity of seed that may be taken, and the species from which the seed is to be sourced.

Timber Harvesting from Roadsides.

Timber is harvested for a range of reasons, including saw logs, firewood and craft wood. Due to the ease of access, timber harvesters may wish to source timber from roadside vegetation for these purposes.

Roadside managers are encouraged to retain timber on roadsides as an important component of the natural habitat, which fulfils ecological, aesthetic and land management functions. Fallen logs and branches within the roadside create important habitat for many species of insects, reptiles, mammals and birds, thus enhancing the roadside biodiversity. Insects and reptiles that live in fallen timber are also important elements of the food chain, and are very important to the functioning of natural systems, and the survival of many other native animals.

The RCC recommends that harvesting of timber from roadsides should not be permitted except in defined road safety, fence line or service clearance zones, or where a tree has fallen, or appears likely to fall into clearance zones.

Where timber removal is to be allowed, consideration should be given to the points raised at the end of these guidelines, especially in relation to safety issues related to timber cutting. Permission to remove timber should be specific to certain sections of roadsides where the removal is necessary for other planned road management purposes.

Guidelines For Harvesting On Roadsides.

- In all cases the permission of the managing authority, i.e. Main Roads WA, Local Government or CALM, must be sought before native flora is removed from a roadside.

- Flora removal should be from only designated roads, which have wider vegetated road verges i.e. vegetation width > 3metres.
- The number of operators authorised to remove flora from a roadside should be strictly limited to that which can be sustained and managed. The determination of this is at the judgement of the managing authority, but consideration should be taken of the type of flora being harvested and an evaluation of monitoring of the impact of the harvest activity. Advice may be sought from CALM or the RCC.
- Approval for flora harvesting should be for a set period, with a review of the impact and operation before renewal.
- Approval should also stipulate approved methods of harvesting, the species which may be harvested, and the quantity of material to be taken. Advice on harvest conditions may be obtained from CALM.
- Any flora removed should not affect the viability of the residual seed bank. It is recommended that no more than 20% of the flowers or seed on a plant should be taken, unless it is in an area that is scheduled to be cleared as part of road management.
- Methods of harvesting flora should not jeopardise the survival of the plant/tree, unless it is in an area that is scheduled to be cleared as part of road management.
- The removal of whole plants should be restricted to areas that are scheduled to be cleared as part of road management. Note, some species of flora such as zamia palms and grass trees cannot be removed for commercial purposes without a special endorsement on the Commercial Purposes Licence issued by CALM.
- No flora of special conservation concern (Declared Rare Flora or Priority Flora) should be removed without special authorisation through CALM.
- No commercial harvesting of any plant product should be allowed for any reason between the markers that delineate a Environmentally Sensitive Areas defined in the *Environmental Protection (Clearing of Native vegetation) Regulations 2004*.
- Flora harvesting should be prohibited from designated Flora Roads.
- Care should be taken that access to Dieback infected areas is limited to the drier months of the year, and vehicular access disallowed.
- Safety should always be of prime concern and every effort should be made to ensure that personal safety is a key consideration in any harvesting operation.
- Flora harvesters should not operate from the roadside in areas where the vegetation is close to the road, where vehicles cannot be safely parked off the road, or where there is poor driver visibility.

Appendix

7

Guidelines for the Nomination and Management of Flora Roads

Introduction

The Flora Roads program began as an initiative of the Roadside Conservation Committee (RCC), as a means of encouraging road managers to protect and conserve roadside vegetation of high conservation value. Flora Roads highlight areas of high conservation flora as a tourist asset to local communities. These are easily identified to passing travellers as areas worthy of an inspection to view the local flora.

The Roadside Conservation Committee has defined Flora Roads as "those roads which have conservation value owing to the vegetation growing within the reserve".

Principle Conservation Values of Flora Roads:

- The roadside must contain a significant population of native vegetation. Introduced trees and grasses are not important for conservation.
- The native vegetation must be in as near to its natural condition as possible. In undisturbed vegetation, several layers of plants occur – trees, shrubs and herbs are present in woodlands, for example. If one or more of the expected layers are missing, the conservation value is reduced.
- The roadside may be the only remaining example of original vegetation within a cleared area. It thus:

- assists in vegetation mapping and distribution studies;
- provides a benchmark for study of soil change during agricultural development;
- provides a source of local seed for revegetation projects;
- acts as a wildlife habitat for the protection of fauna;
- harbours rare or endangered plants in the roadside;
- may provide nest sites and refuges for native animals; and
- may act as a biological corridor.

Identification and Nomination of Flora Roads

The RCC has been coordinating a volunteer roadside survey program since 1989, which provides a list of high conservation value roads within many Shires in the agricultural areas of this state. These roadsides can be investigated further to see if they warrant declaration as a Flora Road. Nevertheless, roadsides that have not been surveyed may still be nominated.

Any person may suggest to the managing authority or to the RCC that a road, or a section of road fits the criteria of a Flora Road. However, only the

managing authority in whom care, control and management of the road is vested can officially declare it a Flora Road.

A road may be nominated as a Flora Road by submitting a written request to the RCC. The RCC requires the following information:
- endorsement from the managing authority;
- name of the road, Local Government Authority, and the road manager (MRWA, Local Government or CALM);
- distance of the proposed Flora Road; and
- width of the road reserve.

The following information would also be useful:
- photograph(s) of the road;
- a list of the dominant plant species; and
- threats such as weeds, disturbances, etc.

This information is stored in the RCC Flora Roads Register, a database that is maintained by the RCC Technical Officer (Mapping).

Establishment of a Flora Road

Given that only the managing authority can officially declare a road, or section of road as a Flora Road, it is important to have the support of the road manager.

The RCC will provide two Flora Road signs to the managing authority. The signs are in the tourist sign colours of white letters and symbols on a leaf brown background. It is the responsibility of the managing authority to erect the signs, and to provide signposts, auxiliary signs and carry out maintenance. One sign may be placed at each approach to the area.

Management Implications

A standard sign was developed by Main Roads WA in the late 1980's; a policy for the erection of Flora Road signage was developed shortly afterwards.

Part 16 of the RCC *Roadside Manual* details the establishment and management of Flora Roads. The RCC's *Guidelines for Managing Special Environment Areas in Transport Corridors* and the *Roadside Handbook* also provides information on Flora Road establishment.

The aim of all management should be to minimise any disturbance to the roadside flora, consistent with the provision of a safe and efficient roadway.

The managing authority will be expected to take into consideration the high conservation values present, and take special care when working within the Flora Road road reserve and the surrounding area. More specifically though;
- council may choose to adopt a policy on Roadside Conservation;

- environmental assessments (pre-construction checklists) should be completed prior to any upgrade work, to assist with planning for flora preservation;
- fire management should be undertaken in such a way so as to take into account the ecological needs of the flora; and
- where rehabilitation is contemplated, local native species should always be used.

Tourism Implications

Declared Flora Roads will, by their very nature, be attractive to tourists, and would
often be suitable as part of a tourist drive network. Consideration should be given to:

- promoting the road by means of a small brochure or booklet;
- eventually showing all Flora Roads on a map of the region or State;
- using specially designed signs to delineate the Flora Road section; and
- constructing roadside flora rest areas where people can get out and enjoy the flora. Walk trails could be made from these, and information brochures produced. The RCC has established links with the W.A.Tourism Commission for inclusion on wildflower tourist publications.

Flora Road Register

To ensure that knowledge of Flora Roads sites does not get lost, due perhaps to staff changes, the RCC has established a Flora Roads Register. Information pertaining to each Flora Road (i.e. road name, location, length, etc) will be stored in the Flora Roads database, and updated as necessary.

In order to plan roadworks so that these important areas of roadside vegetation are
not disturbed, road managers should also know of these areas. Therefore, it is suggested that the Managing Authority establishes a *Register of Roads Important for Conservation* also. This register should be consulted prior to any works being initiated in the area.