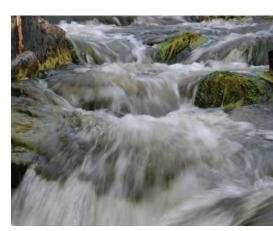


STRATEGIC PLAN

2017 - 2023

















Leigh Catchment Group Strategic Plan 2017 - 2023 'AT A GLANCE'



Climate change mitigation and adaptation

- Protection of our permanent water source the Yarrowee/ILeigh River.
- Corridors for fish and fauna refuge, buffers & sanctuary
- improved agricultural practices
- Managing your 'patch' in a changing climate

Community support, engagement and capacity building



- Effective & experienced network of Landcare and community groups
- Supported landholders with increased capacity
- informed and connected communities including schools



Cultural and historical heritage protection and management

- Increased awareness and appreciation of significant sites and culture
- Increased shared knowledge
- Increased protection and understanding of significant site

Pest plant and animal management



- Integrated pest plant and animal management
- Increased knowledge within the community
- Increased shared responsibility



Protection, enhancement and restoration of biodiversity

- Increased integrated NRM projects to address biodiversity issues
- Increased knowledge and appreciation of biodiversity assets
- Increased research and monitoring
- · Landscape scale planning



Salinity and soil health management

- Increased knowledge and information sharing of salinity and soil health issues
- Ongoing monitoring and management of significant salinity area
- · Improved soil health
- Controlled erosion sites

Agricultural Best Practice



- Increased knowledge and support for improved agricultural practices
- Sustainable agribusiness
- Healthy landholders



Waterway and wetland protection and enhancement

- Increased protection, enhancement and restoration of our waterways and wetlands
- · Increased monitoring of waterway health
- Integrated projects and planning across the catchment

Disaster Recovery



- Advocacy for our communities and the environment in disaster planning
- Supported communities post disaster
- Restoration of landscape assets post disaster



Governance, networks and staff

- Skilled and committed Board
- Strong links to groups, community and partners
- Well-resourced Landcare Hub
- Happy and supported staff

November 2017

Prepared by Andrea Mason

Finding North – Aspects of Sustainability, www.findingnorth.net.au



Strategy Working Group

Andrea Mason, Nick McKinley, Jane Bevelander and Leigh Catchment Group (LCG) Board

Plan Development

This Leigh Catchment Group Strategy establishes the long-term direction and identifies priority actions for the protection and enhancement of natural and community resources within the Leigh Catchment Group area. It:

- Incorporates strategies, priorities and direction from current local, regional, state and national plans and frameworks.
- Identifies and describes natural resource values within the LCG area (LCAP 2008 -2013).
- Identifies and describes threats to natural resources within the LCG area (LCAP 2008 -2013).
- Identifies a set of actions to protect and enhance NRM, agricultural and community values within the LCG area.
- Identifies processes and partners for implementation of actions.
- Identifies governance structures and network priorities.
- Describes a monitoring and evaluation process to enable assessment and reporting of NRM projects.
- Identifies community engagement and capacity building strategies to help deliver and achieve these outcomes.

The Leigh Catchment Group Strategic Plan 2017 - 2023 development includes the following process:

- Review of existing catchment information and data.
- Incorporating identified sub-catchment management areas (LCAP 2008 2013),
- Incorporating identified and described catchment assets/values and threats within the subcatchments (LCAP 2008 – 2013),
- Development of NRM actions required to address threats within the sub-catchments (LCAP 2008 2013),
- Preparation of Draft Leigh Catchment Group Strategic Plan 2017 2023 document,
- Review of Draft Strategic Plan by LCG network Landcare groups, members, landholders and other stakeholders.
- Review of stakeholder feedback and finalisation of Leigh Catchment Group Strategic Plan 2017 2023.

The base data used was prepared for the Leigh Catchment Action Plan 2008 – 2013. It was beyond the scope of the 2017 – 2023 Strategic Plan to update this information.

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1.1. Abbreviations

AVW Atlas of Victorian Wildlife database

ARI Arthur Rylah Institute

BEN Ballarat Environment Network

CAP Catchment Action Plan

CaLP Act Catchment and Land Protection Act 1994

CCMA Corangamite Catchment Management Authority

CFA Country Fire Authority

DEDJTR Department of Economic Development, Jobs, Transport and

Resources.

DEET Department of Education and Training

DELWP Department of Environment, Land, Water and Planning

EPBC Act Environment Protection and Biodiversity Conservation Act 1999

(Cwlth)

EVC Ecological Vegetation Class

FFG Act Flora and Fauna Guarantee Act 1988 (Vic)

FIS Flora Information System database

GIS Geographic Information System

ISC Index of Stream Condition

LCG Leigh Catchment Group

LGA Local Government Agencies

NRM Natural Resource Management

OAAV Office of Aboriginal Affairs Victoria

RSAB Regional Sustainability Alliance Ballarat

TFN Trust for Nature

TSN Threatened Species Network

VBTF Victorian Blackberry Taskforce

VGTF Victorian Gorse Taskforce

VROT Victorian Rare or Threatened species

YLCG Yarrowee Leigh Catchment Group Inc

2. Forward

The Leigh Catchment Group Strategic Plan 2017–2023 provides a vision for the integrated management of natural resources and agriculture in the Leigh Catchment Group landscape, the communities that live there and the Landcare and environmental groups that are working towards a better future. It builds on the achievements and lessons learnt from the previous 20 years and outlines the actions required to achieve our vision.

The foundation of the LCG is its grassroots connections to Landcare, environment groups, individual landholders and volunteers. Our strong relationships developed over time with local, State and Australian government agencies, businesses, schools and research institutions enable the development of sound and effective projects.

Our commitment to whole of catchment protection means working with all those who live in our unique landscape from urban Ballarat to the agricultural landscapes of our southern regions - no property too small.

IMAGINE: a landscape where the major environmental assets of the region are connected. A mosaic of indigenous biodiverse plantings centred on the LeighRiver system, a permanent water source, linking existing biodiversity plantings with remnant vegetation including reserves, national parks and private land to create a pathway for the movement of flora & fauna whilst building on a strong community base in what will be an increasingly challenging climate.

The key themes of action include: Climate change mitigation and adaptation; Community support, engagement and capacity building; Cultural heritage protection and management; Pest plant and animal management; Protection, enhancement and restoration of biodiversity; Salinity and soil health management; Agricultural best practice; and Waterway and wetland protection and enhancement. We will achieve this through good Governance and administration systems; Network group support and by maintaining and establishing strong Partnerships with other organisations.

Achieving our vision will also require new approaches to resourcing our actions. This strategy does not set targets for actions. The experience from our past has shown that we have to be ready to react to opportunities quickly as they come past and spend more effort on creating new opportunities through careful long-term project planning and partnership development. Liaising with our neighbouring networks, forming alliances and sharing resources will become the key to success. Staying connected to our communities will keep us grounded and provide us with the support we need to achieve our goals for our

Andrea Mason

future.

Chairperson, 2013 - 2017

Yarrowee Leigh Catchment Group Inc

3. Introduction

3.1. Background

The Leigh Catchment Group (LCG) formed in 1997 following recognition by the Landcare Groups of the catchment that a combined and coordinated approach to natural resource management result in improved works and lead to an increase in funding for larger scale projects. The following Landcare groups are currently part of the LCG network:

- Bamganie-Meredith Landcare Group.
- Garibaldi Landcare Group.
- Leigh Districts Landcare Group.
- Napoleons/Enfield Landcare Group.
- Ross Creek Landcare Group.

- Upper Williamson's Creek Landcare Group.
- Wattle Flat/Pootilla Landcare Group.
- Friends of Canadian Corridor.
- Friends of Yarrowee River.

Historically the Executive Committee consisted of an independent chairman, secretary, treasurer and two voting representatives from each Landcare Group and in 2009 this system was replaced by a Board consisting of ten elected Landcare Members. The LCG became an independently incorporated association on 1st October 2013 under the name of *Yarrowee Leigh Catchment Group Incorporated (YLCG)* and adopted its new Constitution in June 2016.

The first Leigh Catchment Plan was produced in August 1999 by the Leigh Catchment Group with assistance from Landcare groups within the catchment. That Plan incorporated the Yarrowee River and Leigh River Management Plans. This was replaced by the Leigh Catchment Action Plan 2008 - 2013.

In August 2017, this Strategic Plan was prepared by the Leigh Catchment Group to reflect and integrate current strategic direction - addressing existing and new issues and opportunities to protect the catchment's valuable assets and mitigate potential threats to these assets.

3.2. Vision

Working together to achieve sustainable ecosystems, agriculture and communities

3.3. Purpose

The purposes of the Leigh Catchment Group are governed by the Yarrowee Leigh Catchment Group Inc association and are:

- To work together to ensure the preservation of natural heritage, sustainable agriculture, and communities
- To ensure the ecologically sensitive restoration, development and maintenance of the Yarrowee/Leigh River, all tributaries, corridors and associated ecological communities within the Yarrowee Leigh Catchment group area
- To support our network of Landcare groups and community-based natural resource management groups and community.

3.4. The Leigh Catchment Group Area

The Leigh Catchment Group area covers an area of 1580 square kilometres (Figure 1-1), from north of Ballarat to Inverleighin the south, and consists of the Yarrowee/Leigh River catchment plus the Barwon River subcatchments of Warrambine Creek, Native Hut Creek, and Bruces Creek and the Lake Murdeduke subcatchment of Mia Mia Creek.

The Yarrowee/Leigh River catchment itself covers an area of 890 square kilometres including the Yarrowee River which becomes the Leigh River at its confluence with Williamson's Creek. The Leigh River flows into the Barwon River at Inverleigh. The Leigh Catchment contains a diverse range of topographic features from gently undulating hills, wide valleys and river flats, to steep escarpments and rocky gorges. The catchment supports areas of significant remnant native vegetation including forests, woodlands, grasslands and wetlands occurring on private and public land. The Leigh River supports intact corridors of riparian vegetation with important fauna habitat values. Agriculture is the predominant land use in the catchment. The urban and semi urban areas of Ballarat are also a significant component of the catchment.

Rivers and tributaries of the LCG area include:

Yarrowee River and catchments

- Canadian Creek sub-catchment including Pennyweight Gully, No. 3 Channel, Specimen Vale and Warrenheip Gully.
- Urban sub-catchment including Little Bendigo Creek, Redan Creek, Water Street Drain, Black Hill Creek, Gnarr Creek, Gladstone Creek and Warrenheip Creek.
- Mid Yarrowee sub-catchment including Buninyong Creek, Dog Trap Creek, Ross Creek and Winter Creek.
- Lower Yarrowee sub-catchment including Back Creek, Monmouth Gully and Williamsons Creek.

Leigh River (begins at the confluence of Williamsons Creek and the Yarrowee River) and catchments

- Cargerie Creek
- Woodbourne/Wilsons Creek

Warrambine Creek catchment

Native Hut Creek catchment

Bruces Creek catchment

Mia Mia Creek catchment

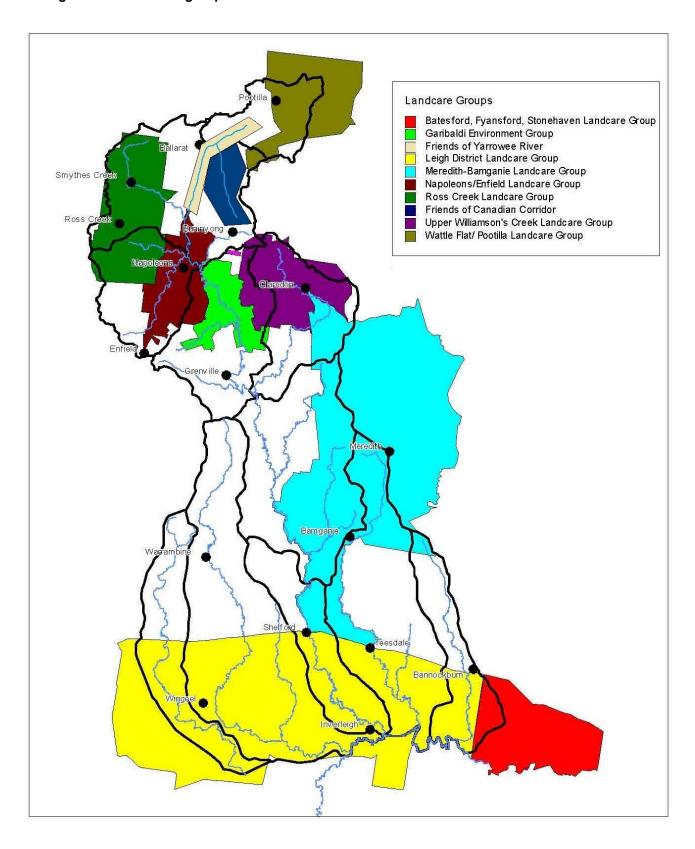
3.5. LCG Network Landcare Groups

There are currently nine Landcare/environment groups with areas of interest that occur within the LCG area. The groups, and the sub-catchments covered by their area of activity, are listed in Table 3-1. Landcare group boundaries are shown in Figure 3-1.

Table 3-1 Landcare/environment groups associated with the Leigh Catchment Group area

Landcare Group	Approx. area (ha) within LCG	Proportion of LCG area (%)	Sub-catchments covered by Landcare group
Bamganie-Meredith Landcare	20,340	13	Upper Leigh (50%)
Group			Native Hut (30%)
			Williamsons (10%)
			Lower Leigh (10%)
Friends of Canadian Corridor	2,500	2	Canadian
Friends of Yarrowee	1,500	1	Yarrowee
Garibaldi Landcare Group	4,000	3	Lower Yarrowee (95%)
			Williamsons (<5%)
Grenville Landcare Group	10,400	7	Lower Yarrowee (40%)
(Closed 2015)			Warrambine (30%)
			Upper Leigh (25%)
Leigh Districts Landcare Group	36,370	23	Warrambine (45%)
			Native Hut (20%)
			Lower Leigh (15%)
			Mia Mia (15%)
			Bruces (11%)
Napoleons-Enfield Landcare	5,730	4	Dog Trap/Ross (60%)
Group			Lower Yarrowee (20%)
			Canadian/Union Jack (15%)
			Winter (10%)
Ross Creek Landcare Group	9,370	6	Winter (65%)
			Dog Trap/Ross (35%)
Upper Williamson's Creek	7,700	5	Williamsons (80%)
Landcare Group			Lower Yarrowee (20%)
			Canadian/Union Jack (<5%)
Wattle Flat/Pootilla Landcare Group	3,370	2	Upper Yarrowee

Figure 3-1 Landcare group boundaries



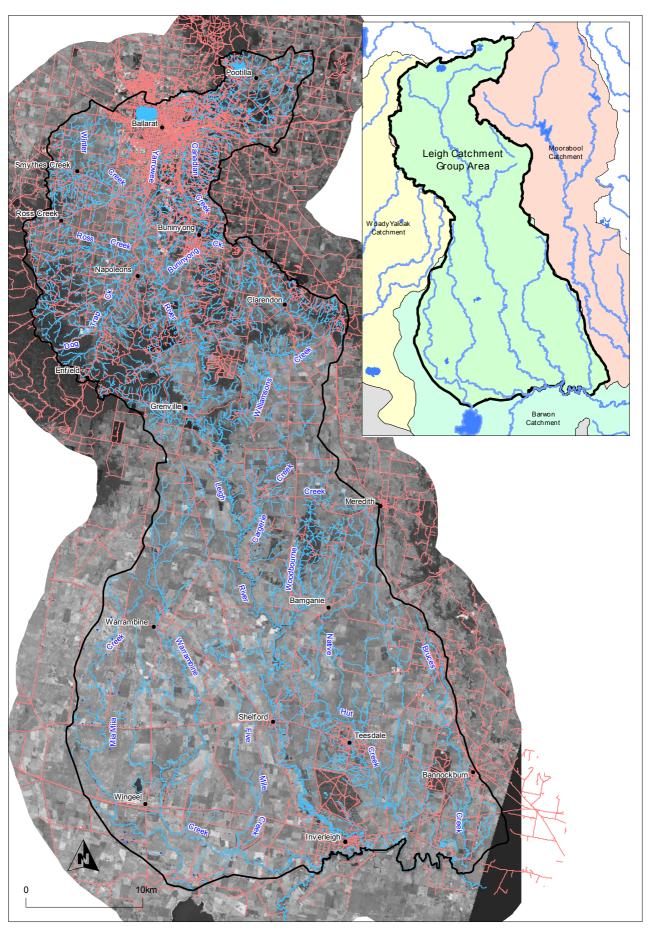
3.6. Natural Resource Management Stakeholders

Land, water and other natural resources within the LCG area are managed by a range of government agencies, non-government organisations, community groups, business and industry groups and private landholders. The key agencies, groups and individuals involved in natural resource management within the LCG area are:

- Ballarat and District Aboriginal Cooperative
- Ballarat Environment Network
- Barwon Water
- Central Highlands Water
- City of Ballarat
- Colac Otway and Surf Coast (small sections of the southern area of the Leigh Catchment Group area)
- Corangamite Catchment Management Authority
- Country Fire Authority
- Department of Planning and Community Development (including Aboriginal Affairs Victoria)
- Department of Environment, Land, Water and Planning
- Department of Economic Development, Jobs, Transport and Resources

- Golden Plains Shire
- Greening Australia
- Heritage Victoria
- Landcare and environmental groups (see below for list of groups within LCG area)
- Moorabool Shire Council
- Parks Victoria
- Private landholders and land managers
- Seeding Victoria
- Southern Rural Water
- VicRoads
- VicTrack
- Wadawarrung

Figure 3-2 Leigh Catchment Group area



4. LCG activities 1997 - 2017

Land owners/managers (individuals, landcare groups, community groups and committees) have received funding assistance to undertake projects and activities (between 1997-2017) within the LCG area. These projects have addressed a range of environmental issues including remnant vegetation protection and enhancement, revegetation of degraded landscapes, salinity control, erosion control, wetland and waterway protection and restoration, habitat corridors and pest plant control, fire recovery and community development.

Approximately \$3.55 million of funding has been managed by LCG for on-ground and related activities within the LCG area.

Alongside the development and coordination of on-ground works, the LCG Landcare officers have provided support to Landcare and other community groups within the LCG area and have coordinated and implemented numerous community based activities including training courses, workshops/seminars/field days, event displays, school programs, and media events. A wide range of information resources have been developed and promoted through brochures, newsletters, electronic mailing, the internet and the media.

4.1. Summary of LCG funding programs: 1997–2017

LCG program/project name	Funding program source	Description	Timeframe	Total budget
Ballarat to Barwon	NHT	3yr waterway protection program	1999-2001	\$493,100
CCMA	CCMA	Ballarat to Barwon support	2000-2001	\$10,000
InVEST	NHT	Indigenous Vegetation and Environmentally Sustainable Targets Project	2001-2002	\$145,000
2nd Generation Landcare	2nd Generation0102	Project Officer support	2001-2002	\$33,500
CCMA Targeted Waterways Program	CCMA	Bridal creeper and weed control, Leigh R	2001-2002	\$30,000
CCMA erosion	CCMA	Erosion mitigation – rock chute	2001-2002	\$40,000
Golden Plains Shire	Golden Plains Shire	Group support	2001	\$5,500
InVEST 2003	NHT	as for InVEST	2002-2003	\$88,650
CCMA	CCMA Initiative Fund	InVEST 2003 extra support	2002-2003	\$11,350
AFFA	NHT	Project Officer support	2002-2003	\$32,380
2nd Generation InVEST 03	2nd Generation0203	Landcare Office Support	2002-2003	\$18,190
Barunah 2003	2nd Generation0203	Waterway protection	2002-2003	\$30,000
CCMA	CCMA Initiative Fund	Rock chute extra support	2002-2003	\$8,693
AFFA	NHT	Project Officer support	2003-2004	\$80,302
CAPP 2004	NHT	Catchment Asset Protection Project	2003-2004	\$48,000
POA 2005	NAP & NHT	Protecting Our Assets	2004-2005	\$181,240
CCMA erosion	CCMA	Erosion mitigation – rock chute	2004-2005	\$43,000
Envirofund LWC 0405	NHT	Wildlife Corridors Project	2004-2005	\$17,309
2nd Generation Larundel Biolink	2nd Generation0405	Corridor and remnant protection	2004-2005	\$30,000
2nd Generation Landcare Support	2nd Generation0405	Group Support	2004-2005	\$300
Gorse Task Force	Gorse Task Force	Upper Leigh Catchment Revitalisation Project	2004-2005	\$12,000

LCG program/project name	Funding program source	Description	Timeframe	Total budget
ROLS 2006	NAP & NHT	Protecting Our Assets	2005-2006	\$165,600
Leigh River Escarpment Project 2006	NLP	Sustainable Grazing Management	2005-2006	\$34,400
2nd Generation Landcare Support	2nd Generation0506	Group Support	2005-2006	\$300
CCMA	Sue Hickey Memorial Grant 2005	Study Tour	2005-2006	\$5,000
CCMA Healthy Waterway Support Fund 05/06	CCMA	River health	2005-2006	\$43,000
SOC 2007	NAP & NHT	Protecting Our Assets II	2006-2007	\$128,800
2nd Generation Landcare Support	2nd Generation0607	Group Support	2006-2007	\$300
Envirofund Larundel	NHT	Revegetation	2006-2007	\$45,454
Golden Plains Shire	Golden Plains Shire	Group support	2007	\$5,000
2nd Generation Landcare	2nd Generation0607	Leigh Catchment Review	2006-2007	\$20,000
Landcare Grant	New Generation	Criss Cross project	2007-2008	\$167,900
2nd Generation Landcare	2nd Generation0708	Communications	2007-2008	\$20,000
Leigh Landcare Coordination	Regional Catchment Investment Plan	Landcare support	2008-2009	\$70,400
Coordinator Support	CCMA	Landcare support	2008-2009	\$6,000
Waterwatch	LCG	Citizen science	2008-2009	\$15,000
2nd Generation Landcare	2nd Generation0809	Building on Ten Years	2008-2009	\$18,000
Golden Plains Shire	Golden Plains Shire	Group support	2008	\$5,000
2nd Generation Landcare	2nd Generation0910	Revegetation	2009-2010	\$20,900
River Health 0910	CCMA	River health	2009-2010	\$98,000
Landcare support	CCMA	Landcare support	2009-2010	\$6,600
Serrated Tussock	CCMA	Awareness Program	2009-2010	\$16,500
Promotions grant	CCMA	Social media	2009-2010	\$1,133
Landcare Support Grant	2nd Generation0910	Group admin support	2009-2010	\$330
Golden Plains Shire	Golden Plains Shire	Group support	2009	\$5,000
River Health 10/11	CCMA	River health	2010-2011	\$116,858
2nd Generation Landcare	2nd Generation1011	Revegetation	2010-2011	\$22,900
Board Grant	CCMA	Landcare program	2010-2011	\$25,000
Landscape Zone Action Plans	CCMA	Planning	2010-2011	\$15,000
Gorse Target Area	Victorian Gorse Task Force	Gorse control	2010-2011	\$4,500
Golden Plains Shire	Golden Plains Shire	Group support	2010	\$5,000
Volunteer Recruitment Initiative	CCMA	Group support	2010-2011	\$5,583
River Health 11/12	CCMA	River health	2011-2012	\$13,962

LCG program/project name	Funding program source	Description	Timeframe	Total budget
Landcare coordinator support	Victorian Local Landcare Facilitators Initiative	Landcare coordinator	2011-2012	\$12,790
Corangamite Landcare 11/12	CCMA	Landcare coordinator	2011-2012	\$10,000
25 Years Landcare	Victorian Landcare	Expo	2011-2012	\$4,614
Golden Plains Shire	Golden Plains Shire	Group support	2011	\$5,000
Landcare coordinator support	VLLFI	Landcare coordinator	2012-2013	\$46,510
Foundation Grant	VLLFI	8 Landcare groups support	2012-2013	\$2,000
Communities for Nature Yr 1	DEPI	Back from the Brink	2012-2013	\$34,508
Corangamite Landcare Grant 12/13	CCMA	Pest control	2012-2013	\$12,515
Securing the Health of Barwon/ Leigh 12/13	CCMA	River health	2012-2013	\$29,602
Volunteer Recruitment Initiative	CCMA	Group support	2012-2013	\$1,500
Gorse Target Area Yr1	Victorian Gorse Task Force	Garibaldi/Napoleons	2012-2013	\$10,000
Golden Plains Shire	Golden Plains Shire	Revegetation	2012	\$5,000
Community Restoration of Yarrowee	CHW	Rabbit control	2012-2013	\$2,200
Communities for Nature	DEPI	Ross Creek Wetland	2012-2013	\$5,200
Landcare Coordinator support	VLLFI		2013-2014	\$46,510
Communities for Nature Yr 2	DEPI	Back from the Brink	2013-2014	\$36,748
Securing the Health of Barwon/ Leigh 13/14	CCMA	River health	2013-2014	\$25,711
Golden Plains Shire	Golden Plains Shire	Woody weed control support	2013	\$5,000
Breathing Life into the Yarrowee	City of Ballarat	Community engagement	2013-2014	\$32,000
Farmer engagement	Regional Landcare Facilitator CCMA	Southern catchment	2013-2014	\$3,200
Landcare Support Grant 14/15	CCMA	Group support	2014-2015	\$500
Landcare Coordinator support	VLLFI	Landcare coordinator	2014-2015	\$46,511
Communities for Nature Yr 3	DELWP	Back from the Brink	2014-2015	\$33,548
Breathing Life into the Yarrowee	City of Ballarat	Community engagement	2014-2015	\$32,000
Securing the Health of Barwon/ Leigh 14/15	CCMA	River health	2014-2015	\$30,754
Gorse Target Area Yr2	Victorian Gorse Task Force	Garibaldi/Napoleons	2014-2015	\$10,000
Farmer engagement	Regional Landcare Facilitator CCMA	Southern catchment	2014-2015	\$2,640

LCG program/project name	Funding program source	Description	Timeframe	Total budget
Corangamite Landcare Grant	CCMA	Franklins Bridge Reserve	2014-2015	\$11,074
Golden Plains Shire	Golden Plains Shire	Revegetation	2014	\$2,500
Land Health Program	National Landcare Program/CCMA	Soils workshops	2014-2015	\$4,880
Sue Hickey Memorial Grant	CCMA	Catchment Tours	2014-2015	\$1,000
Landcare Coordinator Support	Victorian Landcare Facilitator Program	Landcare Coordinator	2015-2016	\$46,511
Breathing Life into the Yarrowee	City of Ballarat	Community engagement	2015-2016	\$32,000
Gorse Target Area	Victorian Gorse Task Force	LalLal/Clarendon	2015-2016	\$24,340
Communities for Nature Yr 4	DELWP	Back from the Brink	2015-2016	\$21,299
Threatened Species Grant	DELWP	Bannockburn Bushland Reserve	2015-2016	\$19,310
Threatened Species Grant	DELWP	Growling Grass Frog	2015-2016	\$12,790
Corangamite Landcare Grant	CCMA	Franklin's Bridge	2015-2016	\$2,269
Securing the Health of Barwon/ Leigh 15/16	CCMA	River health	2015-2016	\$5,106
Corangamite Landcare Grant	CCMA	Group support	2015-2016	\$500
Scotsburn Phoenix Project Yr1	Dept of Treasury, CCMA	Bushfire Recovery Project	Bushfire Recovery Project 2015-2016	
Waterways Incentive	CCMA	River health	2016-2017	\$126,418
Scotsburn Phoenix Project Yr2	Dept of Treasury, CCMA	Bushfire Recovery Project	2016-2017	\$155,198
Land Health Program	National Landcare Program/CCMA	Soils/pastures workshops	2016-2017	\$2,720
Community Landcare Grant	CCMA	Revitalisation of Union Jack Creek	2016-2017	\$14,000
Sue Hickey Memorial Grant	CCMA	Governance training	2016-2017	\$4,900
Landcare Support Grant	CCMA	Group admin support	2016-2017	\$500
Community Impact Grant	City of Ballarat	Discover the Treasures of the Yarrowee	2016-2017	\$5,394
Engaging Communities	City of Ballarat	Connecting to Nearby Nature – Brown Hill	2016-2017	\$9,625
Threatened Species	DELWP	Growling Grass Frogs	2016-2017	\$22,900
Landcare Coordinator Support	Victorian Landcare Facilitator Program	Landcare coordinator 2016-2017		\$47,674
Community Grant	Golden Plains Shire	Website	2016-2017	\$1,475
Gorse Target Area	Victorian Gorse Task Force	Lal Lal/Clarendon	2015-2016	\$2,500

TOTAL \$3,555,159

5. Actions

The objectives and actions that aim to protect or enhance the identified assets, and reduce the impact of the identified threats within the LCG area, are grouped under the following outcome themes:

- Climate change mitigation and adaptation.
- Community support, engagement and capacity building.
- Cultural and historical heritage protection and management.
- Pest plant and animal management.
- Protection, enhancement and restoration of biodiversity.
- Salinity and soil health management.
- · Agricultural Best Practice.
- Waterway and wetland protection and enhancement.

This section presents priority actions for works and activities. The Objectives/Actions table lists a reference number, the type of objective/action, priorities or targets for the implementation of the action, methods or techniques that may be employed to implement the action and a list of key stakeholders or partners that may assist or support the delivery of the action.

5.1. Objectives/Actions for the Leigh Catchment Group Area

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/Partners			
1	Climate change mitigation and adaptation						
1.1	Investigate opportunities to establish carbon offset/trading programs for the LCG area.	Auditing programs Carbon sequestration programs	Information sessions, workshops and meetings Trial sites	Carbon offset/trading groups Landholders			
1.2	Support and promote carbon emission reduction programs.	Carbon emission reduction programs for agriculture Household emission reduction education programs	Arrange meetings between LCG officers/executive and program coordinators Provide opportunities for presentations and information sessions Publicise programs in LCG media material	DELWP CCMA Sustainability Victoria Landcare/community groups			
1.3	Investigate impacts of climate change on catchment assets, NRM management techniques and biodiversity.	Waterway and wetland change Adaptation of revegetation methods Weather events Reduced water availability Be mindful of impacts on sustainable agriculture	Develop and/or support projects investigating the impact of climate change on natural resources in the Corangamite region. Engage with climate change initiatives e.g. South West Climate Change Portal, Future Landscapes	Tertiary institutions and research groups DELWP CCMA LGAs			
1.4	Develop a carbon neutral policy for the Leigh Catchment Group.	LCG activities	Undertake carbon audit for LCG activities. Set emissions targets Identify actions for reducing emissions Reduce waste-recycle paper, use recycled paper for publishing	Sustainability Victoria			

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/Partners
2	Community s	upport, engagement a	nd capacity building	
2.1	Provide support to LCG Landcare groups and individuals	LCG member Landcare groups Related community environmental groups Develop alternative models for engagement of individuals	Project management NRM advice and information Funding opportunities Networking Site assessments Implementation of Landcare support strategy processes and recommendations Publicity Meetings	Landcare/community groups CCMA Individuals
2.2	Promote landholder involvement with Landcare groups.	Private landholders within the LCG area	Field days Event displays Promotional material Media releases	Landcare/community groupsCCMADELWPGreening Australia
2.4	Increase community awareness and knowledge of NRM issues, activities and methods.	General community	Develop Communications Plan Undertake education and information program targeted at small acreage landholders Conduct information sessions, field days, catchment tours and workshops. Undertake and promote surveys of remnant vegetation patches Develop/support community based fauna survey/field day events Produce newsletters and media releases Develop and maintain internet based resources. Provide information sources and reference material to landholders	 Landholders Landcare/community groups Greening Australia CCMA DELWP Schools and tertiary institutions
2.5	Engage with local schools based education programs or activities.	Primary and secondary schools within the LCG area	Develop and run practical activities for students. Promote and assist established citizen science programs such as Young Landcare, Waterwatch Undertake school/community research joint projects Maintenance and monitoring of project sites	Schools Landcare/community groups DEET ARI
2.6	Build local community capacity to enable groups/ networks to be self- sustaining	LCG member Landcare groups	Promote and coordinate training opportunities for Landcare groups e.g. Farm Chemicals course, plant ID, chainsaw Use Promote networking between Landcare groups and other networks e.g. Farm walks, bus tours, dinners, information sessions	LCG Landcare groups Training providers
2.7	Healthy communities	Individual health outcomes through connection to the land Nature Deficit Disorder	Promote health benefits from nature Develop and run practical activities	LCG Health agencies Community groups

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/Partners		
3	Cultural and historic heritage protection and management					
3.1	Increase community awareness and knowledge of cultural and historic features of the LCG area.	General community	 Conduct workshops and/or field days Provide information sources and reference material to landholders Abide by the appropriate legislation 	 LCG Landcare groups Landholders Wadawurrung Registered Aboriginal Party Wathaurong Aboriginal Cooperative Ballarat and District Aboriginal Cooperative OAAV Heritage Victoria Historical societies 		
3.2	Assist landholders and land managers to protect significant cultural and historic sites.	Private landholders Identified significant cultural and historic sites	Provide information and facilitate communication/ agreements between landholders and relevant groups and agencies	 LCG Landcare groups Landholders Wadawurrung Registered Aboriginal Party Wathaurong Aboriginal Cooperative Ballarat and District Aboriginal Cooperative OAAV 		
3.3	Increased awareness and knowledge of traditional land management techniques	Grassland and woodland fire burning	Liaison with key indigenous representatives Attendance at training and planned burns	Wadawurrung Registered Aboriginal Party Wathaurong Aboriginal Cooperative Ballarat and District Aboriginal Cooperative OAAV LGAs CFA		

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/Partners		
	,		Metilous	Stakerioluers/Partifers		
4	Pest plant and animal management					
4.1	Undertake targeted control of CaLP Act listed weeds for the Corangamite area.	 Areas supporting priority EVCs Waterways High conservation status roadsides Locally significant sites identified through Local Action Plans. Public and private land 	Coordinate with key agencies Chemical, physical and biological control treatments, as developed, of infestations. Link landholders to registered training programs e.g. ACUP Weed identification training Monitoring, mapping (drone)	 Landholders DELWP Gorse Task Force Serrated Tussock Task Force CCMA ARI 		
4.2	Work on joint projects with Good Neighbour Program, Task Force, local government and similar programs.	 Designated priority areas Priority weed infestations adjacent and within public land Private land 	Coordinate with relevant agencies and groups	 Landholders Landcare/community groups VGTF, VBTF, VSTF DELWP LGAs Parks Victoria 		
4.3	Support integrated weed control programs	Private and public land projectsHigh conservation roadsidesRemnant vegetation	Field days/ information sessions re varied control method options, best practice Undertake local weed audits Support local group initiatives Support programs that target WONS	 Landholders Landcare/community groups VGTF, VBTF, VSTF DELWP LGAs 		
4.4	Support targeted pest animal control	 Priority areas defined by the CCMA Rabbit Action Plan Sites supporting rare/or threatened flora and fauna Areas identified by NRM agency programs Sites supporting CCMA priority EVCs Locally significant sites identified through Local Action Plans. Roadsides with high conservation values Urban/Semi urban areas 	Accepted pest animal control treatments including habitat destruction where appropriate Develop strategies to assist rural-urban areas Ensure best management practices related to control around threatened species e.g. Brolgas Consultation with landholders, community groups and NRM agencies	 Landholders Landcare/community groups CCMA DELWP TSN 		

Ref.	Objective/Actio	n Priorities/location	Methods	Stakeholders/Partners
5		enhancement and res	toration of biodiversity, native	vegetation,
5.1	Manage remnant vegetation and fauna habitat on private land for conservation.	Priority sites defined by national, state and regional strategies Areas known to support threatened flora and/or fauna. Areas covered by Vegetation Protection Overlays, Environmental Significance Overlays, Salinity Management Overlays or Erosion Management Overlays. Urban and semi-urban areas subject to development. Native grasslands Locally significant sites identified through Local Action Plans.	 Fencing for site management Cease clearing and timber removal Support and encourage enforcement of native vegetation protection legislation Ecological burning Controlled grazing for biomass and weed control Pest plants and animals control Restore degraded or missing vegetation components, Understorey enhancement Ecological thinning Scattered tree protection Educational activities including new landholders Promotional activities - local newsletters, Leighway, e news, social media 	Landholders Landcare/community groups CCMA DELWP LGAs Greening Australia Seeding Victoria CFA Land for Wildlife
5.2	Support agencies and other groups to protect, enhance and restore remnant vegetation and fauna habitat on public land and crown land reserves	 Priority sites defined by national, state and regional strategies Roadsides with general high conservation value. Roadsides that connect, or potentially connect remnant patches of vegetation. Areas known to support threatened flora and or fauna Local significant sites identified through Local Action Plans 	 Identify and establish joint/collaborative revegetation and remnant protection projects Advise road managers of LCG NRM projects being undertaken adjacent or in close proximity to road reserves. Support and encourage enforcement of native vegetation protection legislation Foster new relationships and good communication with existing organisations Advise relevant land managers of LCG NRM projects being undertaken adjacent or in close proximity to areas of public land. Identify and establish joint/collaborative projects for sites that cover public and private land. 	VicRoads VicTrack Local Government Adjoining landholders CFA Parks Victoria DELWP Ballarat Environment Network Friends/Community Groups Community Management committees Schools
5.4	Revegetate areas on private land for biodiversity protection and enhancement.	 Areas directly adjacent to roadsides supporting remnant vegetation. Vegetation/habitat corridors or linking patches between remnant vegetation patches or past revegetation sites. Areas adjacent to sites known to support rare and/or threatened native fauna. Areas adjacent to permanent or semi-permanent water including major waterways and wetlands. Locally significant sites identified through Local Action Plans. 	Implement standard revegetation methods to establish a range of lifeforms/strata that match the relevant local EVCs Incorporate habitat features for a range of wildlife. Assist with species selection to ensure revegetation with suitable species adjacent to threatened EVCs. Publicise potential native weeds to the community	Landholders Landcare/community groups VicRoads Local Government CCMA DELWP Parks Victoria Greening Australia Seeding Victoria
5.5	Support fauna and flora survey/ assessments.	 Roadsides and rail reserves Remnant vegetation on private land Revegetation sites Areas with no or few existing plant or animal records. 	Collaborate with relevant organisations or groups to develop survey and research projects Promote information on Carbon initiatives and other carbon sequestration schemes Identification posters posted in local schools, shopping areas, Landcare groups Highlight significant flora & fauna Support new methodologies and technologies to undertake surveys/ assessments.	Research institutions Field Naturalist groups Bird observer groups DELWP Greening Australia Landcare/community groups Schools Tertiary institutions TFN Landholders

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/Partners	
6	Soils and agricultural land management				
6.1	Establish priority salinity management areas.	LCG area Priority salinity areas	Collate existing information on the LCG area and history including Waterwatch and Saltwatch records Provide management advice Support Waterwatch and Saltwatch activities	DELWP CCMA Landcare/community groups	
6.2	Identify sites still susceptible to erosion.	LCG area	Susceptibility mapping	CCMA DELWP Landcare/community groups	
6.4	Control existing gully, sheet and rill erosion using site specific treatment methods.	 CCMA Soil Health Strategy priority investment areas. Sites supporting remnant native vegetation. Locally significant sites identified through Local Action Plans. 	Engineering treatments such as rock fills and earthworks Biological treatment such as vegetation re establishment	LandholdersLandcare/community groupsCCMADELWP	
6.6	Coordinate and or support industry/agency programs, targeted soil health field days/ workshops.	 Target landholders in areas prone to soil health issues. Priority soil health issues in the Leigh landscape zone including waterlogging, soil structure decline, soil acidification and nutrient decline 	 Hold meetings with key delivery agencies. Provide information to landholders and land managers. Facilitate and/or promote workshops, information sessions and presentations. 	Landcare/community groups CCMA DELWP	

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/Partners
7	Agricultural E	Best Practice		
7.1	Support and/or promote farming or environmental best practice programs.	 Broad acre and small acreage landholders Whole farm planning 	Arrange meetings between LCG officers/ executive and program coordinators Provide opportunities for presentations and information sessions e.g. pasture management, grazing issues, agricultural carbon offsets Publicise programs in LCG media material Provide information sources and reference material to landholders Coordinate, promote and/or support farm planning training courses Coordinate, promote and/or support field days and workshops.	 DELWP DEDJTR CCMA Greening Australia Landcare/community groups Southern Farming Systems
7.2	Sustainable agribusiness	Systems updatesSuccession planning	Industry workshopsTraining eventsPeer to peer learning	 Landholders Landcare/community groups DELWP DEDJTR CCMA Southern Farming Systems Registered Training Organisations
7.3	Healthy Landholders	Landholder wellness Increased networks – farmers/women	Wellness on farm workshops Women on farms support	 Landholders Landcare/community groups CCMA Registered Training Organisations/Consultants Dept of Health

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/ Partners
8	Rivers, waterw	ay and wetland prote	ection and enhancement	
8.1	Riparian revegetation.	Nationally, regionally or locally important waterways. Extensions to intact riparian vegetation. Waterways connecting patches of remnant vegetation. Waterways or gullies susceptible to erosion. CCMA Waterway Strategy priority investment areas. Locally significant sites identified through Local Action Plans.	Standard revegetation methods to establish a range of lifeforms/strata that match the relevant local EVC(s). Incorporate habitat features for a range of wildlife including aquatic fauna. Promote and encourage involvement in NRM agency river restoration and improvement programs.	Landholders Landcare/community groups CCMA DELWP Greening Australia Local government Seeding Victoria Schools
8.2	Protect and enhance riparian zones.	High conservation significance/quality waterways or waterways supporting remnant vegetation and/or fauna habitat. Urban Yarrowee system Waterways or gullies susceptible to erosion. Locally significant sites identified through Local Action Plans.	Restore/enhance urban waterways/channels Fencing for site management Cease clearing and timber removal Controlled grazing/burning for biomass and weed control Control pest plants and animals, willows Restore degraded/missing vegetation components/Instream habitat enhancement. Off stream watering Encourage sustainable farm practices Erosion control/streambed stabilisation Promote and encourage involvement in NRM agency river restoration and improvement programs.	Landholders Landcare/community groups CCMA DELWP Greening Australia Local government Seeding Victoria Schools CFA
8.3	Monitor water quality data to demonstrate and identify priorities	All waterways where data is available	Review Waterwatch, Index of Stream Condition and Index of Wetland Condition data Liaise with CCMA staff	CCMA CHW Waterwatch
8.4	Protect, restore and/ or enhance wetlands and associated native vegetation and fauna habitat.	Internationally, Nationally or Regionally significant wetlands. Wetlands supporting rare and/or threatened flora or fauna Locally significant sites identified through Local Action Plans. Farm dams.	Remove artificial hydrological regimes that degrade wetland condition Fencing for site management Cease clearing and timber removal Controlled grazing for biomass and weed control Control pest plants and animals Restore degraded or missing vegetation components. Establish artificial fauna habitat Identify landholders of priority waterway sites and provide information and promote LCG programs. Wetland habitat improvement earthworks	Landholders Landcare/community groups CCMA DELWP Greening Australia Local government Seeding Victoria Schools CFA
8.5	Restore native vegetation adjacent to wetlands to augment and buffer biodiversity values.	Internationally, Nationally or Regionally significant wetlands. Wetlands supporting rare and/or threatened flora or fauna Locally significant sites identified through Local Action Plans. Farm dams.	Standard revegetation methods to establish a range of lifeforms/strata that match the relevant local EVC(s). Incorporate habitat features for a range of wildlife including aquatic fauna.	Landholders Landcare/community groups CCMA DELWP Greening Australia Local government Seeding Victoria Schools
8.6	Promote and encourage involvement in NRM agency river and wetland restoration and improvement programs.	Private land managers and landholders	Provide information to landholders and land managers. Facilitate and/or promote workshops, information sessions and presentations. Assist CCMA with implementation of the Corangamite Waterway Strategy 2014-2022	CCMA DELWP Greening Australia Schools

Ref.	Objective/Action	Priorities/location	Methods	Stakeholders/Partners
9	Disaster Recovery			
9.1	Advocate for protection and rehabilitation of assets within the LCG area post disaster	Emergency Management Victoria subcommittees – Natural Environment and Economic environment Local government led Community Recovery Committee	Seek representation on subcommittees – Natural environment and Economic environment Develop, seek funding and deliver onground projects in disaster affected area	DELWP DEDTJR Local government CCMA
9.2	Support communities immediately post disaster	Immediate social support Community resilience	Nominate LCG Board member and staff member for immediate response Coordinate local social events Seek representation on Community Recovery Committee	 Landholders Landcare/community groups Local government Community support services e.g. Red Cross
9.3	Support ongoing community and catchment healing	Community education/training Delivery of onground restoration and enhancement projects	Coordinate agency and expert attendance at social events Plan and coordinate education and workshop events post disaster	DELWP DEDTJR Local government CCMA Landholders Landcare/community groups

6. Implementation

6.1. Local Action Plans

The implementation of objectives/actions listed in Section 5 would be facilitated at the local level by local NRM action plans developed by Landcare or other community groups. These plans would incorporate the knowledge, interests and priorities of local landholders and land managers. The Strategic Plan provides background information and context for the development of the local action plans and highlights areas or issues for potential NRM projects that could be undertaken through a Landcare or other community group with assistance from the LCG.

A template is provided in Appendix 3 to assist community based groups to develop a local NRM action plan.

6.2. Leigh Catchment Group structure and administration

In April 2013, the Leigh Catchment Group became independently incorporated through Consumer Affairs Victoria under the name of Yarrowee Leigh Catchment Group Inc. (YLCG). This entity now governs all the business and Board matters in relation to our work, however we still promote ourselves as Leigh Catchment Group (LCG).

In September 2016, a new constitution was adopted for Yarrowee Leigh Catchment Group Inc.

The Board consists of up to ten and no less than five elected YLCG members. The Board is supported by Landcare Coordinator staff and Administrative Support staff as required. The Landcare Coordinators coordinate and manage projects and activities undertaken through LCG and provides support to the Landcare group members. The key organisational features and processes that will support the LCG in delivering successful initiatives are outlined in Section 6-3.

Board Membership

Any person who supports the purposes of the YLCG, and meets at least one of the following criteria, is eligible for membership:

- Any member of an associated Landcare group or community-based natural resource management group which makes up the YLCG.
- Landholders not being a member of a Landcare group who reside within the YLCG area
- Any person not being a landholder but who supports the purpose of the YLCG.

6.3. Actions for LCG governance, network and processes

Ref.	Action	Priorities/location	Methods	Stakeholders/Partners
1	Board Governance			
1.1	Conduct at least 5 Board meetings per year including the Annual General Meeting	Set Board and AGM meeting dates	Secretary to confirm dates at Board meetings Publicise AGM according to Constitution	Board members YLCG members Landcare groups
1.2	Conduct at least 2 General meetings per year	Groups, and individuals in LCG area Landcare Connect events	Publicise general meetings throughout LCG area Provide different meeting formats to engage broad audience across LCG area	Board members YLCG members Landcare groups Agencies Community
1.3	Board Succession Planning	Skills based Board Membership	Actively seek new members and Board recruits	Board members YLCG members
1.4	Comply with regulation	Federal and State statutory/ workplace regulations	Review/update operating procedures as required	Board members YLCG members

Ref.	Action	Priorities/location	Methods	Stakeholders/Partners
2	Network support, en	gagement and capacit	y building	
2.1	Provide support to LCG network Landcare and other community environment groups	LCG network Landcare groups Other community environment groups Opportunity for Landcare group presentations and information sharing Opportunity for raising Landcare issues for Board consideration	Provide Landcare Coordinator support for: Project development NRM advice and information Group support Funding opportunities Provide networking opportunities – Landcare Connect Implementation of Landcare support strategy processes and recommendations Support and publicise Landcare group activities via LCG communications	Board members YLCG members Landcare groups Community groups

Ref.	Action	Priorities/location	Methods	Stakeholders/Partners
3	Administration			
3.1	Maintain LCG community hub	LCG Office in accessible location for community	Ensure On costs funding is incorporated into grant and funding applications Maintain partnerships with Royal Park Committee of Management	Board members LCG staff Friends of Royal Park City of Ballarat
3.2	Maintain/Increase LCG Landcare Coordinators	Minimum 1 Full time Equivalent Landcare support staff member (preferably at least 2 part time roles) Project aligned Support to Board	Ensure sufficient funding through grant and funding applications Support advocacy groups for Landcare support staff e.g. Landcare Victoria Inc	Board members LCG staff DELWP CCMA LVI
3.3	Maintain/extend LCG administrative support	Support to Treasurer Support to Board	Ensure On costs funding is incorporated into grant and funding applications	Board members LCG staff

Ref.	Action	Priorities/location	Methods	Stakeholders/Partners
4	Staff support			
4.1	Maintain/expand HR subcommittee	HR Operating Procedures Staff review systems Board expertise	Update Operating procedures as required Ensure adequate staff review opportunities Undertake governance training as required Utilise external expertise as required	Board members LCG staff
4.2	Staff Professional Development	TrainingMentoringNetworking opportunities	Support/encourage training requests Provide induction materials for new staff Support conference attendance Support attendance at Landcare coordinator networks	Board members LCG staff CCMA LVI
4.3	IT/equipment support	Equipment and facilities External Professional support	Staff training Software upgrades as required Equipment upgrades as required Ensure on cost funding is sufficient	Board members LCG staff

Ref.	Action	Priorities/location	Methods	Stakeholders/Partners
5	Partnerships			
5.1	Maintain/extend network membership	NRM/landscape networks Sustainability networks Community networks Agency networks	Appoint Board members/staff as representatives Support network initiatives as appropriate	Board membersLCG staffAgencies
5.2	Develop project based partnerships	LCG network projectsLandscape scale projectsCMA/State based initiatives	Landscape and Local Action planning Utilise NRM Portal	Board members LCG staff Agencies Bunanyung Landscape Alliance

6.4. Support and Partnerships

A range of agencies and organisations may provide assistance with the delivery of actions listed in this plan. Partnerships with one or more of the groups listed below may be formed to deliver a range of outcomes across a variety of NRM, land use types, community and landholder projects.

Key agencies/organisations	Roles and responsibilities
Ballarat Environment Network	Biodiversity management, NRM knowledge and information, coordination of NRM projects
Barwon Water	Water management
Bunanyung Landscape Alliance	Landscape scale planning and project support
Central Highlands Water	Water management
Corangamite Catchment Management Authority	Funding, native vegetation management, waterway and wetland management, NRM information management, volunteer group support. Carbon trading opportunities
Corrections Victoria	Delivery of onground outcomes
Department of Environment, Land, Water and Planning	Development and implementation of sustainability and biodiversity policies, programs and priorities. Crown Land Reserves
Department of Economic Development, Jobs transport and Resources	Development and implementation of agricultural and weed policies, programs and priorities.
Friends of Royal Park	Landcare Hub facilities a Royal Park
Greening Australia	Development and implementation of sustainability and biodiversity programs. NRM knowledge and information, coordination of NRM projects. Community Education.
Indigenous organisations and communities	Cultural knowledge and surveys, management of culturally significant sites and values, land management
Landcare groups and other community based NRM groups	Implementation of NRM projects including on-ground works, community capacity building and networking, development of local action plans
Landcare Networks: Woady Yaloak Catchment Group Moorabool Landcare Network Geelong Landcare Network Upper Barwon Landcare Network	Implementation of NRM projects including on-ground works, community capacity building and networking. Shared resources Landscape alliances
Local businesses and industry	NRM related technological services and products. NRM management expertise and services. Financial support/sponsorship of NRM projects. 'Other' local businesses should be utilised where possible e.g. IT support, catering, signage maintenance etc.
Local Government: City of Ballarat Moorabool Shire Council Golden Plains Shire	Public land management (including relevant roadsides), strategic land use planning, sustainability planning and development, statutory planning, policy development, storm water management
Parks Victoria	Management of biodiversity and other natural resource values on Parks and reserves
Regional Sustainability Alliance Ballarat	Development of climate change and sustainability projects
Seeding Victoria	Coordination of indigenous seed supply. Community education programs.
Southern Farming Systems	Agricultural research and expertise
VicRoads	Management of biodiversity and other natural values on roadsides. Control of pest plants and animals
VicTrack	Management of biodiversity and other natural values on rail reserves. Control of pest plants and animals

7. Monitoring, Evaluation and Reporting

Monitoring, evaluation and reporting (MER) are important elements of this strategy and its implementation. An effective MER framework that is an integral part of the strategy will:

- be accountable to partners investing in LCG projects
- evaluate the effectiveness of actions undertaken so they can be adjusted if required
- ensure programs and investment achieve the LCG vision, goals and objectives.

An effective monitoring and assessment process requires the measurement of inputs (e.g. number of trees planted, length of fencing, number of workshops/field days) and outputs (e.g. changes in native vegetation extent and quality, changes in extent and severity of erosion, community participation levels and knowledge) need to be measured.

The LCG currently records and monitors inputs (including costs) in the Leigh Catchment Group Project Database (custom designed relational database) and a cloud based accounting package. LCG maintains historic and current spatial records of projects using a geographical information system. Data is uploaded periodically into CCMA Natural Resource Management Planning Portal.

Project reporting to investors will be in accordance with that required in each project Service Level Agreement. Other monitoring techniques will be used as required by the organisation or individual projects including facilitated workshops, regional initiatives such as the Clear Learning Environmental Action, and Most Significant Change stories.

The LCG Board produces an Annual Report including a financial statement.

The key processes required for monitoring and evaluating activities within the LCG are listed in Section 7-1.

7.1. NRM monitoring and evaluation framework

Task/process	Timeline	Responsibility
Enter NRM project information into LCG Project Database/accounting database.	At commencement of all projects and update as required during active period of project	LCG
Map LCG NRM projects (where applicable) to complement project information held in the LCG Project Database/accounting database	At completion of all projects (where project has a spatial component)	LCG
Transfer data to CCMA NRM Planning Portal	Annually minimum	LCG/CCMA
Submit Landcare facilitator reports to DELWP	Specified by DEWLP	LCG
Develop and implement Monitoring and Evaluation techniques for all projects	At commencement of all projects, update as required during active period of project and at end	LCG
Assess community participation in NRM within the Leigh Catchment and evaluate community perceptions of the Leigh Catchment Group.	As required	CCMA/LCG
Develop targeted experimental research projects to determine changes and effects in relation NRM works within the catchment	To be determined	LCG/CCMA/DELWP//tertiary institutions

8. Strategic Framework and Existing Information (As prepared in the Leigh Catchment Action Plan 2008 - 2013.

8.1. Background to this data and acknowledgements

The following information was prepared for the Leigh Catchment Action Plan 2008 – 2013.

It was beyond the scope of the 2017 – 2023 Strategic Plan to update this information. It will be used as background information for the purposes of this current planning.

At that time, the project team thanked Mark Dyall and Yani Grbich (Corangamite Catchment Management Authority), Peter Dahlhaus (Dahlhaus Environmental Geology Pty Ltd.) and Tim D'Ombrain (BEN Biodiversity Services) for assistance with catchment data, background information and expert advice.

8.2. Supporting strategies and plans

A range of state and regional natural resource management strategies, plans and policies provide a framework for the Leigh Catchment Action Plan. This framework is positioned within the broader context of National and International NRM policies and strategies. A list of the most relevant state, regional and local strategies and plans for the LCG area is provided in Section 8-3. These strategies, plans and reports contain relevant background information and provide direction and priorities for NRM activities within the Leigh Catchment.

8.3. State, regional and local NRM strategies and plans

TITLE	YEAR
STATE	
Land and Biodiversity White paper	Victorian Government (in prep.)
Our Environment Our Future: Sustainability Action Statement	(DSE 2005c)
Our Environment Our Future: Victoria's Environmental Sustainability Strategy	(DSE 2005d)
Our Water Our Future: Ballarat Regional Action Plan	(DSE 2005e)
Our Water Our Future: Securing Water Future Together (Government White Paper)	(DSE 2004c)
Victoria's Biodiversity Strategy: Directions in Management Our Living Wealth Sustaining Our Living Wealth	(DNRE 1997b)
Victoria's Greenhouse Strategy Action Plan Update	(DSE 2005f)
Victoria's Native Vegetation Management: A Framework for Action	(DNRE 2002a)
Victorian Pest Management – A Framework For Action	(DNRE 2002f)
Victorian Pest Management – Fox Management Strategy	(DNRE 2002b)
Victorian Pest Management – Public Land Pest Management Strategy	(DNRE 2002c)
Victorian Pest Management – Rabbit Management Strategy	(DNRE 2002d)
Victorian Pest Management – Weed Management Strategy	(DNRE 2002e)
Victorian Salinity Management Framework	(DNRE 2000)
REGIONAL	
Corangamite Landcare Support Strategy 2004-2009	(CCMA 2004b)
Corangamite Native Vegetation Plan: 2003-2008	(CCMA 2005)

TITLE	YEAR
Corangamite Rabbit Action Plan: 2001 - 2006	(CCMA 2000a)
Corangamite Regional Catchment Strategy: 2003 -2008	(CCMA 2003)
Corangamite Regional Nutrient Management Plan	(CCMA 2000b)
Corangamite Regional Wetland Strategy: 2006-2011	(CCMA 2006a)
Corangamite River Health Strategy	(CCMA 2006b)
Corangamite Salinity Action Plan 2005-2008	(Nicholson et al. 2006)
Corangamite Soil Health Strategy 2006-2012	(Clarkson 2007)
Corangamite Water Quality Plan	(in prep)
Corangamite Weed Action Plan: 2001- 2004	(CCMA 2000c)
LOCAL	
Ballarat Koala Plan of Management (Draft)	(Schlagloth et al. 2006)
Blueprint Ballarat	(City of Ballarat 2004)
Cities for Climate Protection – City of Ballarat Greenhouse Action Plan (draft)	(City of Ballarat 2003)
City of Ballarat Environmental Sustainability Strategy	(Milne & Kendal 2007)
City of Ballarat Open Space Strategy (Draft)	(City of Ballarat et al. 2007)
City of Ballarat Roadside Management Plan (Draft)	(City of Ballarat 2000)
Leigh Catchment Plan: Incorporating the Yarrowee River and Leigh River Management Plans	(Leigh Catchment Group 2000)
LINCS strategy	(LINCS Committee 1995)
Mount Buninyong Scenic Reserve Final Management Plan	(CEM 1997)
Urban and Upper Tributaries, Buninyong (now Union Jack) Creek and Canadian Creek Master Plans	2000
Yarrowee River Corridor Landscape Master Plans and Land Management Plan	(Thomson Hay & Associates 1995)

8.4. Catchment Information

In addition to information contained in the strategies and plans listed in Section 6.1, a range of other data sources were used to obtain information on the natural resources/values and threats within the LCG area. The following databases and datasets were accessed to extract data for the LCG area:

- CAMS (Catchment Activity Management System) (DSE).
- Corangamite Catchment Management Authority GIS datasets (CCMA).
- Leigh Catchment Group Project Database (LCG).
- Flora Information System (DSE).
- Atlas of Victorian Wildlife (DSE).
- Ecological Vegetation Class GIS dataset (DSE).
- VicMap GIS datasets including topographic, waterway and wetland, road, and Victorian Planning Scheme layers.
- Roadside mapping databases

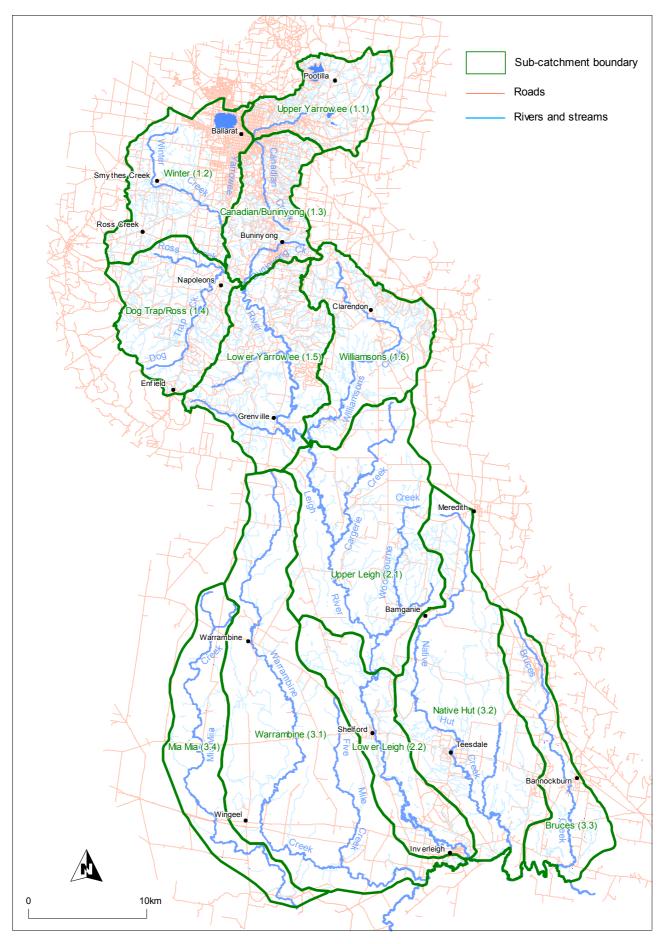
8.5. Sub-catchment Management Areas

The Leigh Catchment was divided into eight sub-catchments to enable the identification of assets, threats and actions at a scale that will allow targeted management of natural resources within the Leigh River catchment. The sub-catchment areas were developed with consideration of hydrological boundaries, land type and land use features. A further four sub-catchments of the Barwon River that are part of the Leigh Catchment Group area are also included. The sub-catchments are listed in Section 8-1 and shown in Figure 8-1.

8.6. Sub-catchments of the Leigh River

ID	Sub-catchment Name	River Catchment	River section	Area (hectares)
1.1	Upper Yarrowee	Yarrowee	Upper	6,406
1.2	Winter	Yarrowee	Mid	10,880
1.3	Canadian/Union Jack	Yarrowee	Mid	6,846
1.4	Dog Trap/Ross	Yarrowee	Mid	9,727
1.5	Lower Yarrowee	Yarrowee	Lower	13,194
1.6	Williamsons	Yarrowee	Lower	10,666
2.1	Upper Leigh	Leigh	Upper	20,851
2.2	Lower Leigh	Leigh	Lower	9,898
3.1	Warrambine	Barwon	Mid	29,598
3.2	Native Hut	Barwon	Mid	21,046
3.3	Bruces	Barwon	Mid	8,432
3.4	Mia Mia	Murdeduke	Upper	10,653

Figure 8-1 Sub-catchment management areas



9. Catchment Assets and Threats

9.1. Assets

Figure 9-1

A wide range of natural resource and environmental values occur within the LCG area. An overview of the key assets located within the LCG area is provided in Section 9.2. A description of land use and the key environmental assets is provided in Sections 9-3 to 9-7. A profile of natural resource assets for each of the 12 LCG sub-catchments is provided in Section 4.

Distribution of remnant native vegetation classified by Bioregional Conservation

The following environmental values/assets of the LCG area are shown in Figures 9-1 — 9-10.

- Status (see Appendix 4 for Bioregional Conservation Status definitions).

 Figure 9-2 Broad distribution of rare and/or threatened fauna. A list of threatened fauna for each sub-catchment is provided in Section 4.

 Figure 9-3 Distribution and quantity of Atlas of Victorian Wildlife records.

 Figure 9-4 Broad distribution of rare and/or threatened flora. A list of threatened flora for each sub-catchment is provided in Section 4.

 Figure 9-5 Distribution and quantity of Flora Information System records.
- Figure 9-6 Major waterways and wetlands.
- Figure 9-7 Waterway environmental condition (Index of Stream Condition assessment).
- Figure 9-8 Land used for agriculture (grazing, cropping, dairy), horticulture or forestry.
- Figure 9-9 Roadside conservation status (RCAC roadside assessment rating).
- Figure 9-10 Aboriginal cultural heritage place sites.

9.2. Summary of natural resource assets within the Leigh Catchment Group area

Asset	Description and significance	State and regional priorities	
communities and flora • 77 rare or thre species. • 19,000 hectare vegetation. • 23 native vege • 21 threatened • Approximately supporting me conservation seeds to see the	 77 rare or threatened native flora species. 19,000 hectares of remnant native vegetation. 23 native vegetation communities. 21 threatened vegetation communities. Approximately 250 mapped roadsides supporting medium to very high conservation significance native 	Victoria's Biodiversity Strategy (DNRE 1997a) lists general priorities for each bioregion across the state.	
		Corangamite Native Vegetation Plan (CCMA 2005) priorities include:	
		Priority Ecological Vegetation Class (EVC) for protection	
		Priority EVCs for revegetation.	
		Linear reserves	
		 Scattered trees 	
	vegetation (see Appendix 1 for list of roads).	Threatened flora	
	roads).	 Threatened fauna. 	
		 Flora listed under FFG Act and EPBC Act. 	
		DSE Biosites.	
		 DSE and Parks Victoria management plans identify significant conservation areas through zoning and identify priority management strategies for individual Parks or reserves. 	
		Areas covered by Local Government	

Asset	Description and significance	State and regional priorities
		planning scheme Vegetation Protection Overlays.
		 Significant roadsides identified in Roadside Management Plans and/or significant identified from roadside vegetation surveys.
Native fauna	 322 native fauna species. 56 rare and/or threatened native fauna species. 	 Victoria's Biodiversity Strategy (DNRE 1997a) lists general priorities for each bioregion across the state.
	.,	 Fauna listed under FFG Act and EPBC Act.
		 Victorian Rare and/or threatened fauna (DSE 2005a, 2007).
		DSE Biosites.
		 Koala habitat and management areas (Schlagloth et al. 2006)
Waterway and wetland systems	500 kilometres of major rivers and streams (Yarrowee/Leigh River 108 kilometres).	CCMA River Health Strategy (CCMA 2004a) priority waterway – Leigh River (Williamsons Creek confluence to Barwon River section)
	 140 wetlands. Nationally Significant wetlands - Lake Wendouree. Regionally significant (environmental) waterway - Leigh River (Reach B12) 	CCMA Wetland Strategy (CCMA 2006a) key wetlands - White Swan Reservoir, Lake Wendouree, Gong Gong Reservoir, Kirk Reservoir, Pincott Reservoir, Bingley Swamp.
	(CCMA 2004a).	Yarrowee/Leigh/Canadian/Buninyong (now Union Jack) Masterplans
Land	126,000 hectares of agricultural and horticultural land.	Corangamite Salinity Action Plan (Nicholson <i>et al.</i> 2006) priority areas
	4,800 hectares of semi-urban land use.	(none located within LCG area).
	6,000 hectares of urban land use.	Corangamite Soil Health Strategy (Clarkson 2007) investment priorities.
Cultural heritage	Aboriginal and non-aboriginal cultural heritage sites and objects.	Sites and areas listed with AAV, Heritage Victoria, National Trust and other local heritage databases/archives.

9.3. Leigh Catchment Features and Land Use Summary

Feature	Area (ha)	% of LCG area
LCG catchment area	158,197	Na
Public land	16,150	10
Private land	142,046	90
Land use:		
Agriculture/Horticulture	126,047	80
Conservation	5,738	4
Forestry	7,820	5
Mining	545	<1
Semi-urban	4,832	3
Urban	5,980	4

Area of native vegetation within the LCG area 9.4.

Asset	Area (ha)	% of LCG area
Total area of remnant native vegetation	19,030	13
Total area of remnant native vegetation on public land	8,730	6
Total area of remnant native vegetation on private land	10,300	7
Endangered EVCs	2,895	15*
Vulnerable EVCs	2,116	11*
Depleted EVCs	4,322	23*
Least Concern EVCs	9,650	51*

Data source: EVC_BCS100 GIS data layer (DSE 2002). See Appendix 4 for EVC Bioregional Conservation Status definitions.

Ecological Vegetation Classes mapped within the LCG area 9.5.

				Regional I	Priority EVC ²
EVC	EVC Name	BCS¹ Status	Area (ha) mapped	VVP	CVU
3	Damp Sands Herb-rich Woodland	V	100		
16	Lowland Forest	LC	150		
20	Heathy Dry Forest	LC	9,500		
22	Grassy Dry Forest	D	3,530		
23	Herb-rich Foothill Forest	D,V	720	P,R	
47	Valley Grassy Forest	V	1,010		
53	Swamp Scrub	E	30	P,R	
55	Plains Grassy Woodland	E	1,900	P,R	Р
56	Floodplain Riparian Woodland	Е	160	P,R	
68	Creekline Grassy Woodland	E	50	P,R	
83	Swampy Riparian Woodland	Е	60	P,R	R
125	Plains Grassy Wetland	X	2	P,R	Р
128	Grassy Forest	V,E	580		
132	Plains Grassland	Е	55	P,R	
164	Creekline Herb-rich Woodland	V,E	340	Р	
175	Grassy Woodland	E	195	P,R	P,R
198	Sedgy Riparian Woodland	D	115		
641	Riparian Woodland	Е	20	P,R	P,R
647	Plains Sedgy Wetland	E	70	P,R	P,R
691	Aquatic Herbland / Plains Sedgy Wetland Mosaic	E	10	P,R	
851	Stream-bank Shrubland	V,E	75		
895	Basalt Escarpment Shrubland	E	5		
897	Plains Grassland / Plains Grassy Woodland Mosaic	E	350	P,R	

^{*} Proportion of total area of native vegetation within the LCG area.

Data source: EVC_BCS100 GIS data layer (DSE 2002). See Appendix 4 for EVC Bioregional Conservation Status definitions

¹ Bioregional Conservation Status: X – Possibly extinct; E – Endangered; V – Vulnerable; LC – Least Concern

² Corangamite Native Vegetation Plan priorities:

VVP - Victorian Volcanic Plain bioregion

CVU – Central Victorian Uplands bioregion
P – Regional priority EVC for protection and enhancement

R – Regional priority EVC for revegetation

9.6. Rare and/or threatened fauna recorded within the LCG area

Species	VROT ¹	FFG ²	EPBC ³	Year of last record	Record count
Australasian Shoveler	V			2002	29
Australian Bustard	С	L		1955	7
Azure Kingfisher	n			2001	2
Baillon's Crake	V	L		2001	11
Barking Owl	е	L		1991	3
Black Falcon	V			2001	2
Black-chinned Honeyeater	n			2001	19
Black-eared Cuckoo	n			2001	8
Blue-billed Duck	е	L		2003	40
Brolga	V	L		2003	19
Brown Quail	n			1980	4
Brown Treecreeper	n			2003	16
Brush-tailed Phascogale	V	L		1993	6
Bush Stone-curlew	е	L		1914	1
Caspian Tern	n	L		1980	1
Chestnut-rumped Heathwren	V	L		1907	2
Common Bent-wing Bat	e	L	CD	1962	1
Common Dunnart	V	_	-	1964	1
Common SanDELWPper	V			1988	1
Diamond Dove	n	L		1999	1
Diamond Firetail		L		2000	29
	V	-		1954	1
Elegant Parrot	n			1996	7
Fat-tailed Dunnart	e	L		2002	6
Freckled Duck		<u> </u>		1986	1
Glossy Ibis	n V	L		2003	24
Great Egret	V	L		2003	5
Grey Goshawk		L		1979	1
Grey-crowned Babbler	e	L	V		10
Growling Grass Frog	e	L	V	2001	
Hardhead	V			2003	81
Hooded Robin	n	L		1989	4
Latham's Snipe	n			2001	13
Lewin's Rail	V	L		1994	4
Little Bittern	е	L		2000	9
Little Button-quail	n		_	1970	1
Macquarie Perch	е	L	Е	1970	8
Major Mitchell's Cockatoo	V	L		1958	1
Mountain Galaxias		L		1999	41
Musk Duck	V			2003	91
Nankeen Night Heron	n			2000	9
Painted Honeyeater	V	L		1998	12
Pectoral SanDELWPper	n			1998	2
Pied Cormorant	n			2001	10
Plains-wanderer	С	L	V	1955	3
Powerful Owl	V	L		1999	6
Red-tailed Black-Cockatoo	е	L	Е	1896	1
Regent Honeyeater	С	L	Е	1947	2
Royal Spoonbill	V			1980	2
Speckled Warbler	V	L		1979	3
Spot-tailed Quoll	е	L	Е	1964	1
Spotted Harrier	n			2001	2

Species	VROT ¹	FFG ²	EPBC ³	Year of last record	Record count
Spotted Quail-thrush	n			1976	3
Square-tailed Kite	V	L		2000	2
Striped Legless Lizard	е	L	V	1997	10
Swamp Skink	V	L		1999	5
Swift Parrot	е	L	Е	2001	7
Whiskered Tern	n			1980	5
Yarra Pigmy Perch	n	L	V	2000	296

Data source: Atlas of Victorian Wildlife (DSE 2004a)

¹ Victorian Rare or Threatened animal status ² Flora and Fauna Guarantee Act 1988 (Vic): (DSE 2007):

c = Critically Endangered

e = Endangered

v = Vulnerable

L = listed as threatened under schedule 1 of

³ Environment Biodiversity and Conservation Act 1999 (Cwlth):

C = listed as critically endangered

E = listed as endangered

V = listed as vulnerable

CD = listed as Conservation Dependent n = Near Threatened

Rare and/or threatened flora recorded within the LCG area 9.7.

Name	Common name	VROT ¹	FFG ²	EPBC ³	Year of last record	Record count
Amphibromus sinuatus	Wavy Swamp Wallaby- grass	V			1950	1
Asperula charophyton	Elongate Woodruff	k			1950	1
Austrostipa hemipogon	Half-bearded Spear-grass	r			1979	2
Bossiaea cordigera	Wiry Bossiaea	r			1998	2
Brachyscome cuneifolia	Wedge-leaf Daisy	k			1950	1
Caladenia pumila	Dwarf Spider-orchid	х	L	Х	1950	1
Caladenia sp. aff. fragrantissima (Inverleigh)	Inverleigh Spider-orchid	е			1950	1
Calandrinia volubilis	Twining Purslane	r			1950	1
Calochilus gracillimus	Slender Beard-orchid	k			1990	2
Cardamine gunnii s.s.	Tuberous Bitter-cress	Х			1950	2
Cardamine tenuifolia	Slender Bitter-cress	k			1950	1
Carex chlorantha	Green-top Sedge	k			1905	3
Chiloglottis trilabra	Tall Wasp-orchid	k			2001	1
Chiloglottis X pescottiana	Bronze Bird-orchid	r			1999	3
Chionogentias gunniana	Gunn's Forest-gentian	х			1950	1
Comesperma polygaloides	Small Milkwort	V	L		2002	24
Corunastylis ciliata	Fringed Midge-orchid	k			1950	1
Cullen parvum	Small Scurf-pea	е	L	Е	2001	38
Cullen tenax	Tough Scurf-pea	е	L		1995	3
Desmodium varians	Slender Tick-trefoil	k			1992	1
Dianella amoena	Matted Flax-lily	е		Е	1950	2
Dipodium pardalinum	Spotted Hyacinth-orchid	r			1950	1
Distichium capillaceum	Fine Fringe-moss	V			1898	3
Diuris punctata var. punctata	Purple Diuris	V	L		2002	5
Diuris sp. aff. chryseopsis (Basalt Plains)	Small Golden Moths	v	L	E	1990	2
Eucalyptus brookeriana	Brooker's Gum	r			2002	4
Eucalyptus leucoxylon subsp. connata	Melbourne Yellow-gum	V	Х		1998	15

Name	Common name	VROT ¹	FFG ²	EPBC ³	Year of last record	Record count
Eucalyptus willisii subsp. falciformis	Grampians Peppermint				1950	1
Eucalyptus yarraensis	Yarra Gum	r r	Х		2002	73
Euphrasia collina subsp.	Purple Eyebright		^			
speciosa Euphrasia scabra	Rough Eyebright	Х			no date	1
Glycine latrobeana	Clover Glycine	е	L		no date	1
Gratiola pumilo	Dwarf Brooklime	V	L	V	2001	23
Grevillea bedggoodiana	Enfield Grevillea	r		.,	1996	1
Grevillea chrysophaea	Golden Grevillea	V		V	1998	13
Grevillea steiglitziana	Brisbane Range Grevillea	r			1950	2
Hypoxis vaginata var.	Yellow Star	r			1950	2
brevistigmata Lachnagrostis adamsonii	Adamson's Blown-grass	k			2000	3
Lachnagrostis filiformis var. 2	<u> </u>	V	L	E	1998	6
	Wetland Blown-grass	k			1950	1
Lachnagrostis punicea	Purple Blown-grass	r			1950	4
Lachnagrostis punicea subsp. filifolia	Purple Blown-grass	r	L		1950	1
Lachnagrostis punicea subsp. punicea	Purple Blown-grass	r	_		1997	4
Lachnagrostis robusta	Salt Blown-grass	r			1998	8
Lemna trisulca	Ivy-leaf Duckweed	k			1993	2
Lepidium pseudohyssopifolium	Native Peppercress	k			1993	1
Lepidosperma canescens	Hoary Rapier-sedge	r			1982	2
Leptospermum turbinatum	Shiny Tea-tree	r			1950	1
Leucochrysum albicans subsp. albicans var. tricolor	White Sunray			E	2001	
Lotus australis	Austral Trefoil	е				8
Microseris sp. 1	Plains Yam-daisy	k			2001	5
Nicotiana suaveolens	Austral Tobacco	V			1950 2001	<u>1</u> 4
Olearia pannosa subsp.	Velvet Daisy-bush	r			2001	4
cardiophylla		٧	L		1950	1
Olearia tubuliflora	Rayless Daisy-bush	r			1971	4
Pimelea spinescens	Spiny Rice-flower	е	L		2000	14
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	V		С	2002	29
Pleurosorus subglandulosus	Glandular Blanket-fern	k			1978	2
Poa labillardierei var. (Volcanic Plains)	Basalt Tussock-grass	k			1992	2
Prasophyllum aff. validum B	Woodland Leek-orchid	е		V	1950	2
Prasophyllum fosteri	Shelford Leek-orchid	е	L		2003	20
Prasophyllum frenchii	Maroon Leek-orchid	е	L	E	1992	4
Prasophyllum pyriforme s.s.	Silurian Leek-orchid	е			1983	3
Prasophyllum suaveolens	Fragrant Leek-orchid	е	L	Е	2000	4
Prostanthera decussata	Dense Mint-bush	r			1950	1
Prostanthera nivea var. nivea	Snowy Mint-bush	r			2001	15
Pterostylis aciculiformis	Slender Ruddyhood	k			1970	1
Pterostylis smaragdyna	Emerald-lip Greenhood	r			1950	1
Ptilotus erubescens	Hairy Tails		L		2002	48
Pultenaea graveolens	Scented Bush-pea	٧	L		1950	2
Rhagodia parabolica	Fragrant Saltbush	r			2001	9
Rutidosis leptorhynchoides	Button Wrinklewort	е	L	Е	2001	10
Senecio cunninghamii var. cunninghamii	Branching Groundsel	r			2000	5
Senecio macrocarpus	Large-fruit Fireweed	e	L	V	2002	21
Swainsona behriana	Southern Swainson-pea	r			2000	5
Thelymitra gregaria	Basalt Sun-orchid	е	L		2002	2
Thelymitra hiemalis	Winter Sun-orchid	е	L		1950	1

Name	Common name	VROT ¹	FFG ²	EPBC ³	Year of last record	Record count
Thelymitra luteocilium	Fringed Sun-orchid	r			1982	2
Thelymitra mackibbinii	Brilliant Sun-orchid	е	N	V	1950	1
Thelymitra X macmillanii	Crimson Sun-orchid	V			2001	6
Tripogon Ioliiformis	Rye Beetle-grass	r			1993	2
Wurmbea uniflora	One-flower Early Nancy	r			1950	1

Data source: Flora Information System (DSE 2004b)

¹ Victorian Rare or Threatened plant status (DSE 2005a):

x =Presumed extinct in Victoria

e = Endangered

v = Vulnerable r = Rare in Victoria

k = Poorly Known in Victoria

 2 Flora and Fauna Guarantee Act 1988 (Vic): L = listed as threatened under schedule 1 of

the Act

N = nominated for listing as threatened

X = rejected for listing as threatened

³ Environment Biodiversity and Conservation Act 1999 (Cwlth):

X = Extinct

C = listed as critically endangered

E = listed as endangered

V = listed as vulnerable

Figure **9-1** Mapped remnant native vegetation classified by Bioregional Conservation Status

Data source: EVC_BCS100 GIS data layer (DSE 2002). See Appendix 4 for EVC Bioregional Conservation Status definitions

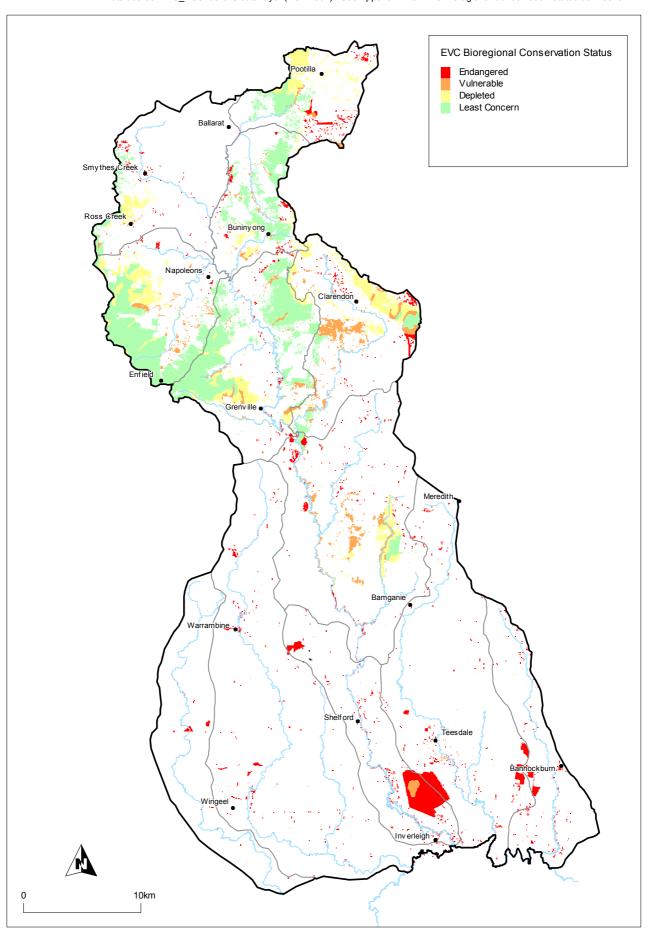


Figure 9-2 Distribution of Atlas Victorian Wildlife threatened fauna records

Data source: Atlas of Victorian Wildlife (DSE 2004a). Actual locations are not shown to protect local populations

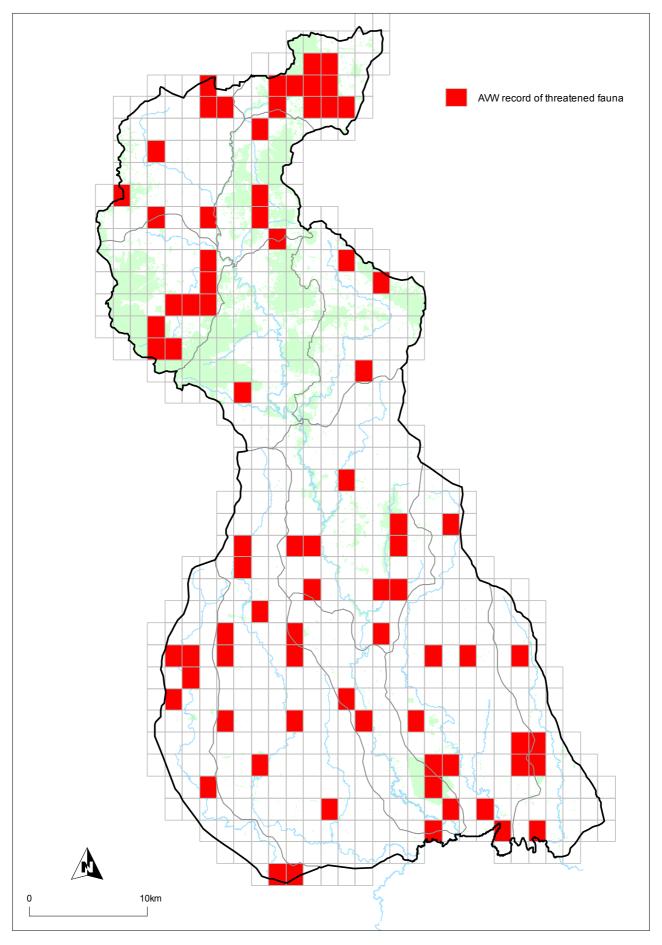


Figure 9-3 Distribution and quantity of Atlas of Victorian Wildlife records within the LCG area

Data source: Atlas of Victorian Wildlife (DSE 2004a)

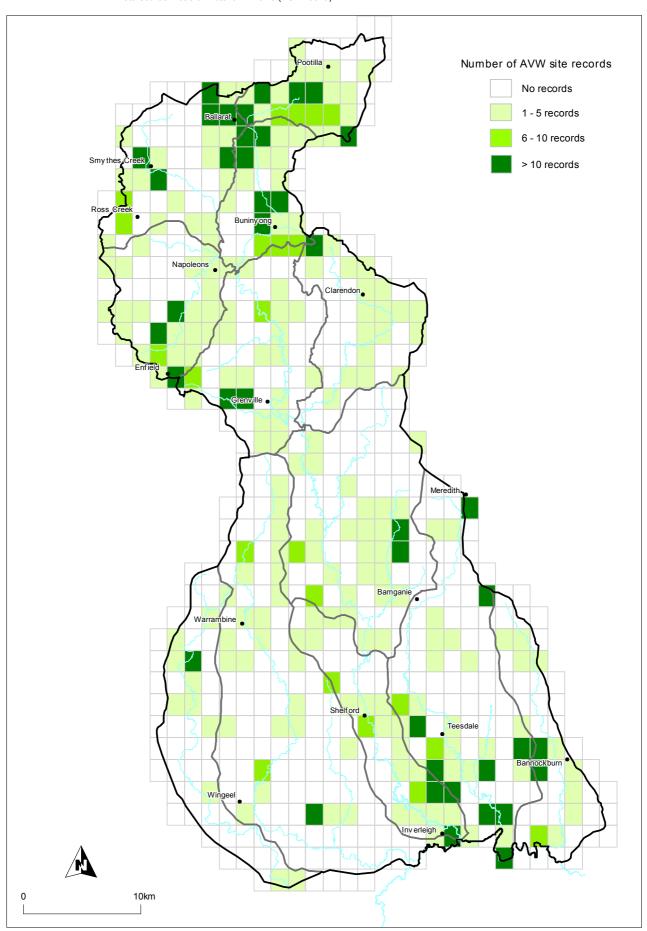


Figure 9-4 Distribution of Flora Information System rare and/or threatened flora records

Data source: Flora Information System (DSE 2004b). Actual locations are not shown to protect local populations

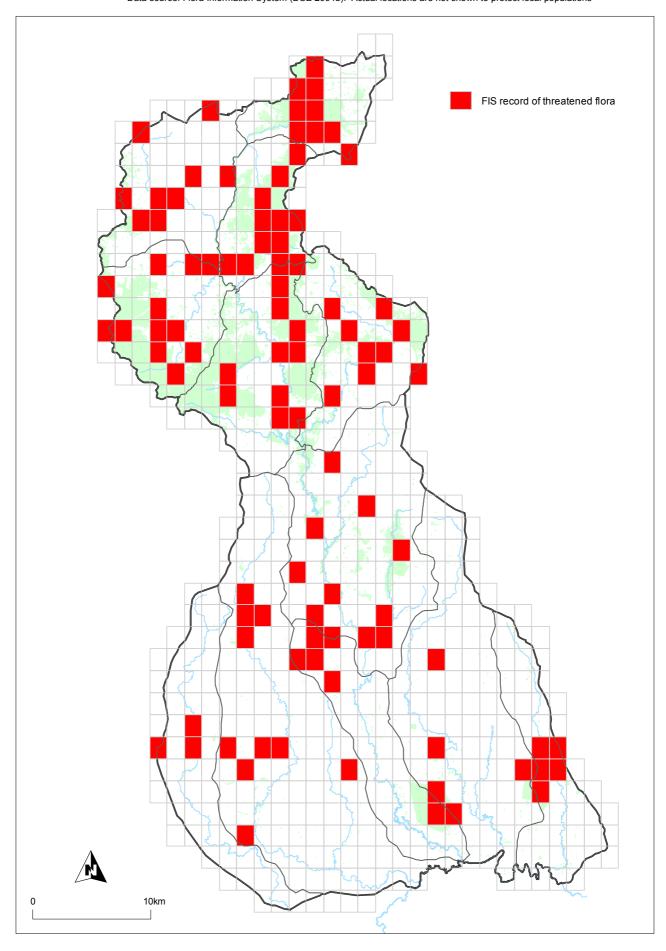


Figure 9-5 Distribution and quantity of Flora Information System records within the LCG area

Data source: Flora Information System (DSE 2004b)

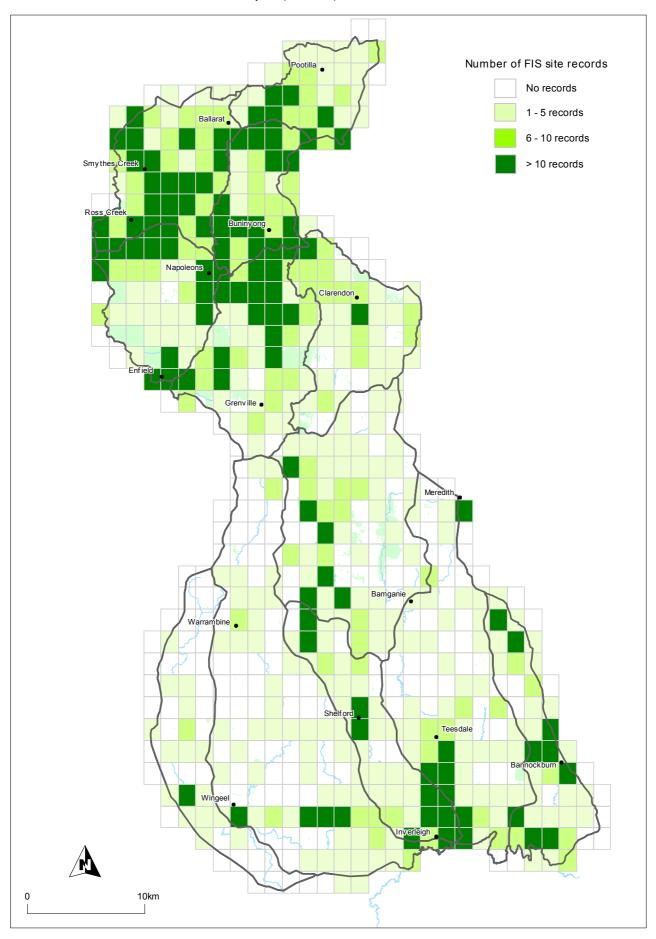


Figure 9-6 Wetland location and size

Data source: Wetland_1994 GIS data layer (DSE)

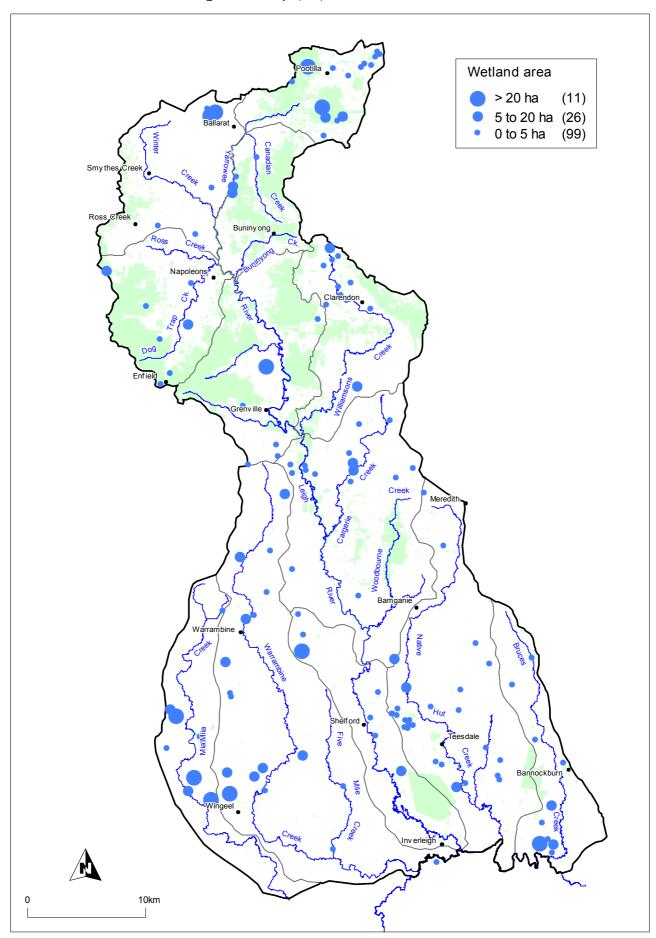


Figure 9-7 Index of Stream Condition assessment of rivers and streams in the LCG area

Data source: Reproduced from ISC2 report (DSE 2005b)

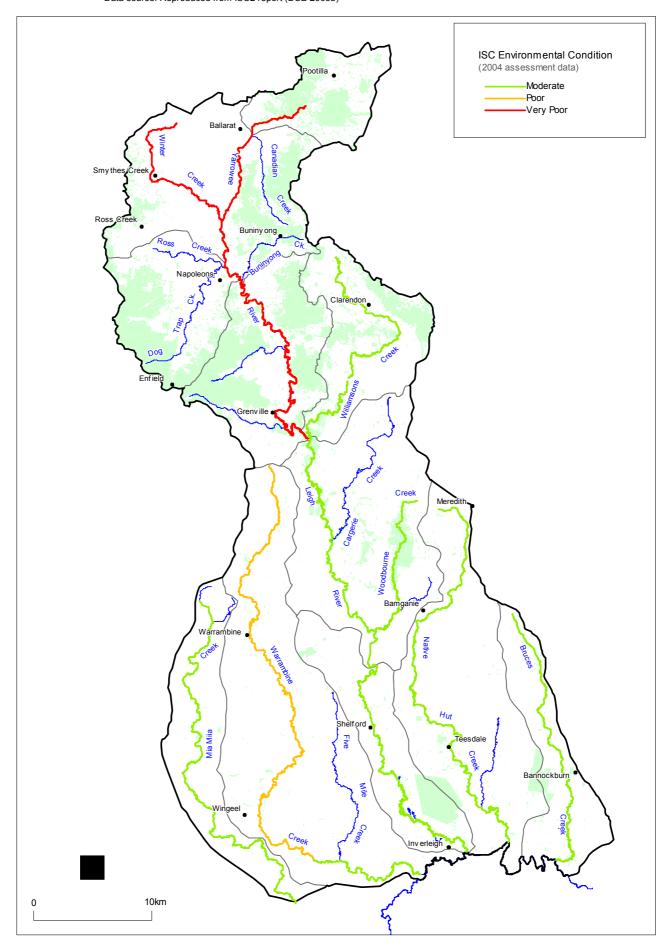


Figure 9-8 Land use within the LCG area

Data source: Corangamite Catchment Management Authority landuse dataset

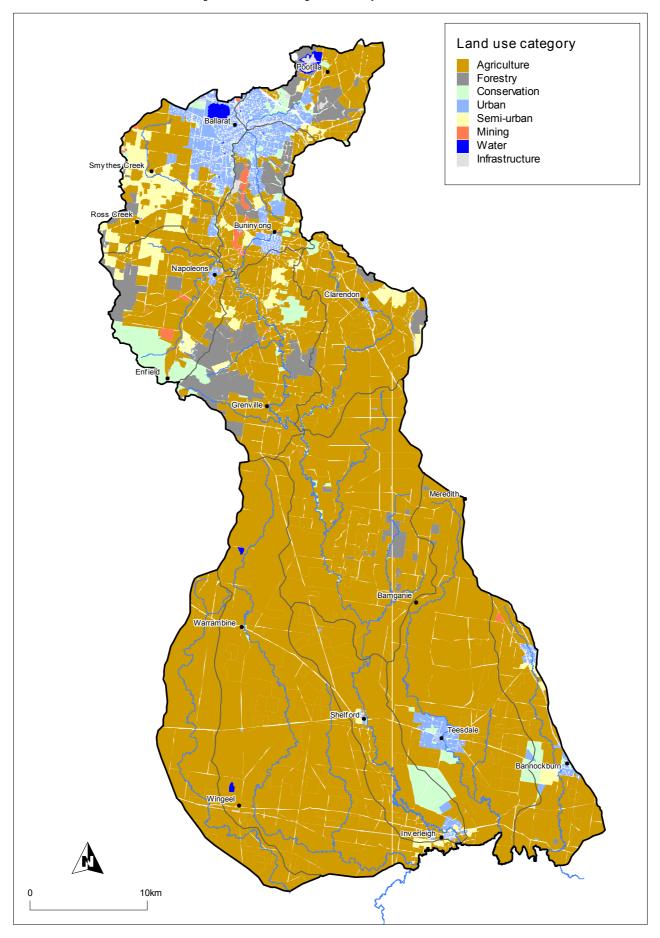


Figure 9-9 Roadside conservation status within the LCG area

Data source: RCAC assessment data from roadside surveys conducted for the City of Ballarat and Golden Plains Shire by BEN Biodiversity Services

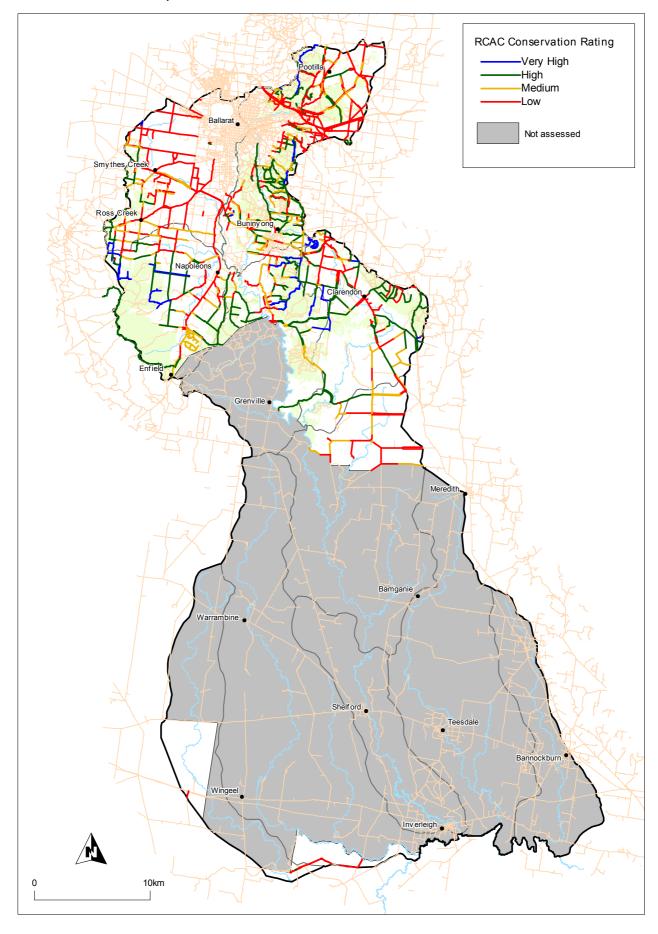
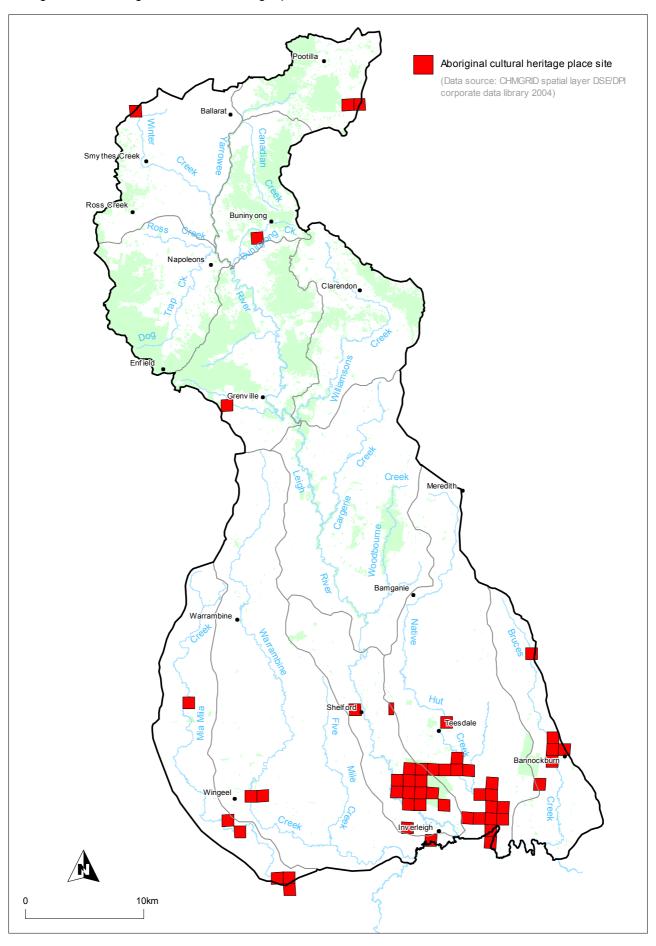


Figure 9-10 Aboriginal cultural heritage place site records within the LCG



9.8. Threats

Threatening processes that potentially affect the condition of natural resource assets of the LCG area were identified and are listed in Table 9-1. A profile of threatening processes within the LCG area is provided in Table 9-2.

The following threatening processes are shown in Figures 9-11 — 9-13.

- Figure 9-11 Mapped primary (natural) and secondary (induced) salinity sites.
- Figure 9-12 Mapped gully, sheet and rill erosion
- Figure 9-13 Declared noxious weeds (CaLP Act)

Table 9-1 Threatening processes within the Leigh Catchment Group area

Threat	Assets potentially affected by the threat	Relevant priorities identified in state/regional/local strategies and plans
Native vegetation loss and degradation: Threatening processes include: • Clearing	Flora, fauna, soil condition, water quality, cultural heritage	Victorias Biodiversity Strategy (DNRE 1997a): Reversal, across the entire landscape, of the long-term decline in the extent and quality of native vegetation
 Altered grazing regimes Altered fire regimes Altered hydrological regimes		State Government Native Vegetation Framework (DNRE 2002a). Aims to achieve 'Net Gain' in native vegetation quantity and quality. Defers regional priority setting to Native Vegetation Plans.
Land use change		Corangamite Native Vegetation Plan (CCMA 2005). Lists priority EVCs for protection and restoration.
		Areas covered by Local Government planning scheme Vegetation Protection Overlays.
Pest plants	Flora, fauna, agricultural land	Corangamite region weeds listed under CaLP Act (See Appendix 2 for list of declared noxious weeds for the Corangamite area) (DPI 2008).
		Corangamite Weed Action Plan (CCMA 2000c) describes priority weeds.
Pest animals	Flora, fauna, agricultural land	Corangamite Rabbit Action Plan (CCMA 2000a) defines priority areas for Rabbit management.
Soil health decline including: • Salinity	Agricultural land, flora, fauna, water quality, cultural heritage	Corangamite Salinity Action Plan (Nicholson et al. 2006) priority areas (no priority areas identified within the LCG area).
 Erosion Acidification Structure decline Waterlogging		Corangamite Soil Health Strategy (Clarkson 2007) investment priorities and including gully, tunnel, sheet and rill erosion in the Leigh landscape zone
Waterway and wetland health decline. Threatening processes include: • Salinisation • Sedimentation • Excessive nutrients • Altered flow regimes • Aquatic and riparian vegetation and habitat loss	Water quality, riparian and aquatic flora and fauna, cultural heritage	 CCMA River Health Strategy (CCMA 2004a) priority waterways - Lower Leigh River. Corangamite Regional Wetland Strategy (CCMA 2006a). No specific priority wetlands listed. Lists the development and implementation of a wetland prioritisation process for regional investment as a priority. Also identifies the need to develop wetland local action plans. Leigh River catchment classified as high implementation priority within an agricultural land program in the Corangamite Nutrient Management Strategy (CCMA 2000b). 2004 ISC assessment classified Barwon River basin condition as very poor (DSE 2005b)
Climate change - reduced water availability (reduced rainfall and increased evaporation) and temperature increases	Flora, fauna. water quantity and quality, agricultural land	No specific regional or state strategies/plans with NRM focus. Various climate change based issues incorporated in other NRM plans and strategies.
Urbanisation and land use change	Flora, fauna, water quality,	Blueprint Ballarat (City of Ballarat 2004) contains

Threat	Assets potentially affected by the threat	Relevant priorities identified in state/regional/local strategies and plans
	cultural heritage, agricultural land	strategic direction for residential and commercial development within the City of Ballarat.
		Local Government planning scheme zoning and planning overlays (ie. VPO, ESO, SLO EMO)
		Yarrowee/Canadian/Buninyong Creek Masterplans

Table **9-2** Threatening process profile for the LCG area

Threat type	Quantity	% of LCG area
Salinity ¹		
Number of mapped primary salinity sites	46	-
Number of mapped secondary salinity sites	220	-
Area of mapped primary salinity sites (ha)	150	0.1
Area of mapped secondary salinity sites (ha)	1,013	0.6
Erosion ²		
Length of mapped gully erosion (km)	125	na
Area of mapped sheet/rill erosion (ha)	885	0.6
Approximate area of native vegetation loss (ha) ³	138,000	88%
(may include some areas supporting highly depleted native vegetation)		
Pest plants (CaLP CCMA declared noxious weeds*) ⁴ .		
(See Appendix 2 for the list of declared noxious weeds for the Corangamite area).		
Number of Regionally Prohibited species	0	-
Number of Regionally Controlled species	24	-
Number of Restricted species	23	-
Total number of declared noxious weed species	47	-

Data source:

Table 9-3 Declared weed definitions (DPI 2008)

Regionally Prohibited Weeds Regionally Prohibited weeds are not widely distributed in a Region but are capable of spreading further. It is reasonable to expect that they can be eradicated from a Region and

they must be managed with that goal. Land owners must take all reasonable steps to

eradicate Regionally Prohibited weeds on their land.

Regionally Controlled Weeds These weeds are usually widespread and are considered important in a particular Region. To prevent their spread, continuing control measures are required. Land owners have the

responsibility to take all reasonable steps to prevent the growth and spread of Regionally

controlled weeds on their land.

Restricted Weeds Includes plants that pose an unacceptable risk of spreading in the State or to other parts of

Australia if they were to be sold or traded in Victoria, and are a serious threat to another State or Territory of Australia. Trade in these weeds and their propagules, either as plants, seeds or contaminants in other materials in prohibited

¹ Corangamite salinity GIS dataset (CCMA 2008) ² Corangamite erosion GIS dataset (CCMA 2008) ³ EVC_BCS100 GIS data layer (DSE 2002)

⁴ Flora Information System (DSE 2004b)

Figure 9-11 Mapped primary and secondary salinity in the LCG area

Data source: CCMA salinity mapping

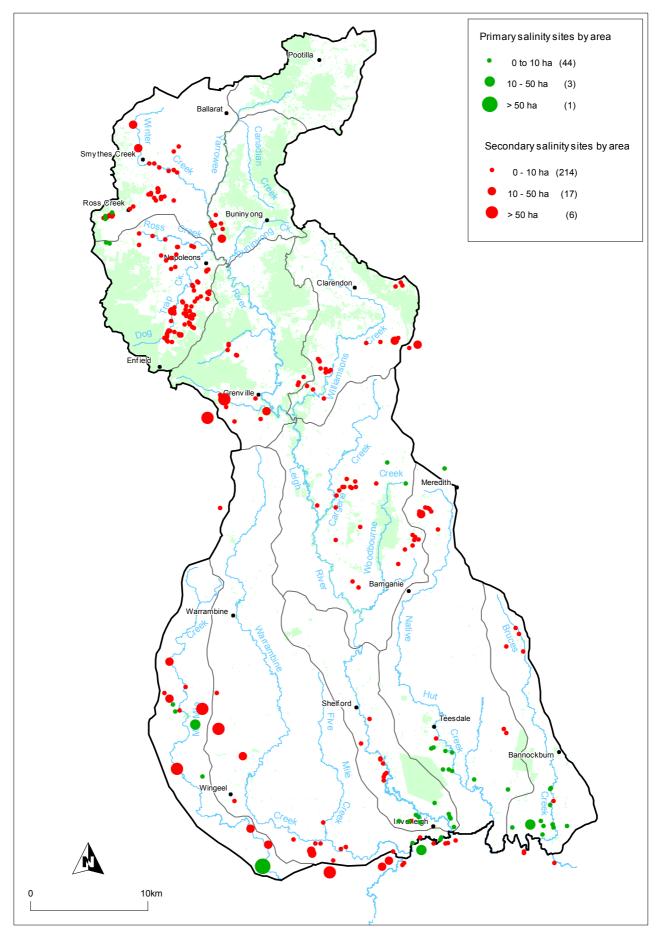


Figure 9-12 Mapped gully and sheet/rill erosion sites in the LCG area

Data source: CCMA erosion GIS layers

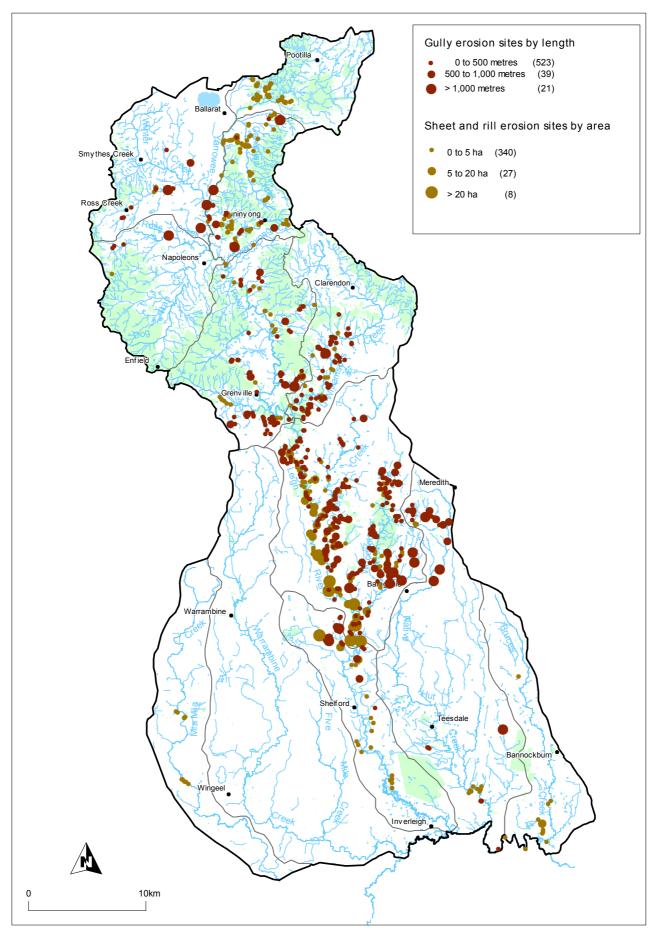
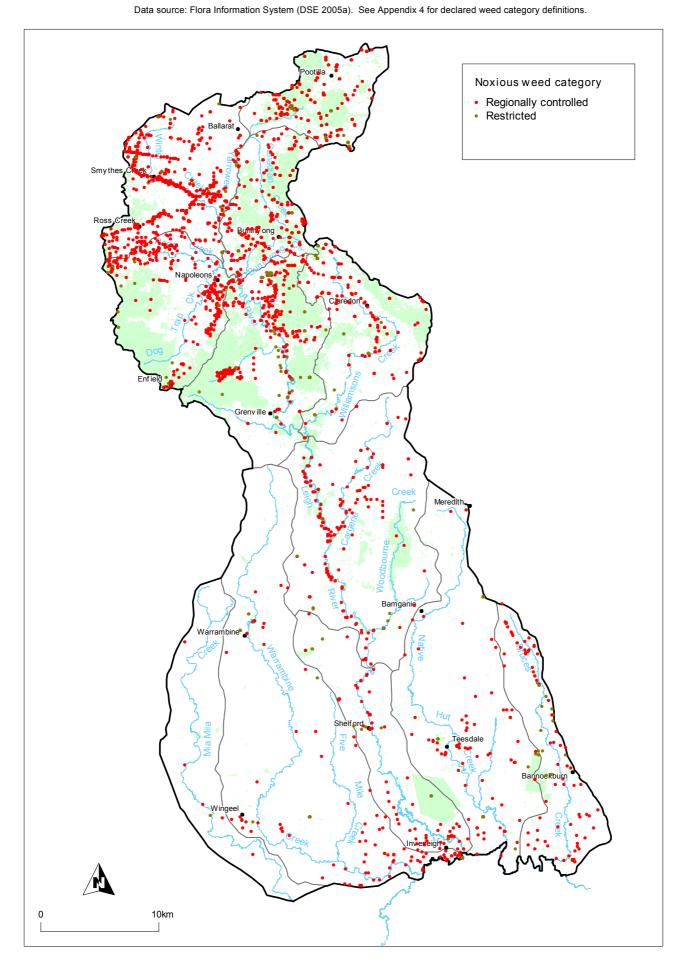


Figure 9-13 Location of mapped declared noxious weed records in the LCG area

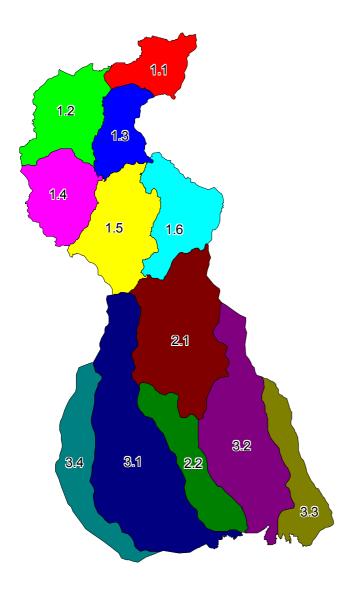


10. Catchment and Sub-catchment Profiles and Action s

The following section summarises catchment asset, threat and NRM activity information for each sub-catchment area. The information presented in the profiles has been extracted from existing databases and spatial datasets. The profiles are not an exhaustive list of features within the sub-catchments and may contain inaccuracies.

Sub-catchment profile data sources:

Native vegetation	Ecological Vegetation Class EVC_BCS100 GIS dataset layer (DSE2002)
Native Fauna	Atlas of Victorian Wildlife database (DSE 2004a)
Native Flora	Flora Information System (DSE 2004b)
Salinity	Corangamite salinity mapping GIS data layer (CCMA 2008)
Erosion	Corangamite erosion mapping GIS data layers (CCMA 2008)
Introduced flora	Flora Information System (DSE 2004b)
NRM projects	Leigh Catchment Group Project Database and the Catchment Activity Management System (CAMS) Database



Leigh Catchment Group area sub-catchments

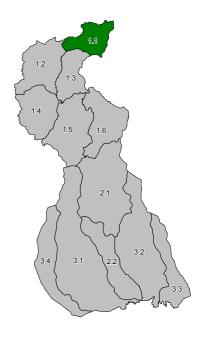
- 1.1 Upper Yarrowee
- 1.2 Winter
- 1.3 Canadian/Buninyong
- 1.4 Dog Trap/Ross
- 1.5 Lower Yarrowee
- 1.6 Williamsons
- 2.1 Upper Leigh
- 2.2 Lower Leigh
- 3.1 Warrambine
- 3.2 Native Hut
- 3.3 Bruces
- 3.4 Mia Mia

Sub-catchment 1.1 — Upper Yarrowee

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	6,406	4*
Public land	1,735	27
Private land	4,671	73
Land use:		
Agriculture/Horticulture	2,790	44
Conservation	378	6
Forestry	1,125	18
Mining	-	-
Semi-urban	132	2
Urban	847	13

^{*} Proportion of the LCG area



Environmental Asset Summary

Native vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	1,090	17
Total area of remnant native vegetation on private land	480	8
Total area of remnant native vegetation	1,570	25
Endangered EVCs	170	10*
Vulnerable EVCs	80	5*
Depleted EVCs	670	43*
Least Concern EVCs	660	42*

^{*}Proportion of total area of native vegetation within sub-catchment.

EVCs mapped within the sub-catchment

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
20	Heathy Dry Forest	LC	658	
22	Grassy Dry Forest	D	215	
23	Herb-rich Foothill Forest	D,V	501	Y
47	Valley Grassy Forest	V	34	
55	Plains Grassy Woodland	E	114	Y
83	Swampy Riparian Woodland	E	1	Y
175	Grassy Woodland	E	54	Y

^{*} See Appendix 4 for definitions

Fauna - Rare and/or Threatened

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Azure Kingfisher	n			2001	2
Baillon's Crake	V	L		2001	1
Black-eared Cuckoo	n			2001	5
Blue-billed Duck	е	L		1999	5
Great Egret	V	L		2001	5
Grey Goshawk	V			2001	2
Growling Grass Frog	е	L	V	2001	2
Hardhead	V			2001	10
Latham's Snipe	n			2001	2
Lewin's Rail	V	L		1992	1
Musk Duck	V			2000	4
Pied Cormorant	n			2001	2
Powerful Owl	V	L		1999	1
Square-tailed Kite	V	L		2000	2

^{*} See Appendix 4 for definitions

Flora – Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Bossiaea cordigera	Wiry Bossiaea	r			1998	1
Desmodium varians	Slender Tick-trefoil	k			1992	1
Eucalyptus brookeriana	Brooker's Gum	r			2002	4
Eucalyptus yarraensis	Yarra Gum	r	Х		2000	7

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	0
Sheet/Rill erosion – mapped area (ha) affected	4.5
Salinity – number of mapped secondary salinity affected areas	0
Salinity – area of mapped secondary salinity sites (ha)	0
Number of declared Regionally Controlled noxious weed species*	15
Number of declared Restricted noxious weed species*	11

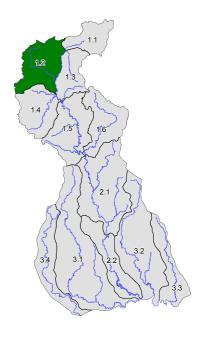
^{*} See Appendix 4 for definitions

Sub-catchment 1.2 — Winter

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	10,880	7*
Public land	1,041	10
Private land	9,840	90
Land use:		
Agriculture/Horticulture	4,800	44
Conservation	310	3
Forestry	350	3
Mining	45	0
Semi-urban	1970	20
Urban	2075	20

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	30	<1
Total area of remnant native vegetation on private land	690	6
Total area of remnant native vegetation	720	7
Endangered EVCs	73	10 [*]
Vulnerable EVCs	30	4*
Depleted EVCs	290	41 [*]
Least Concern EVCs	320	45 [*]

^{*} Proportion of total area of native vegetation

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
20	Heathy Dry Forest	LC	322	
22	Grassy Dry Forest	D	290	
47	Valley Grassy Forest	V	30	
55	Plains Grassy Woodland	Е	62	Y
83	Swampy Riparian Woodland	E	11	Y
164	Creekline Herb-rich Woodland	Е	1	Υ

^{*} See Appendix 4 for definitions

Fauna – Rare and/or Threatened

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Australasian Shoveler	٧			2002	20
Australian Bustard	С	L		1955	2
Baillon's Crake	٧	L		2001	10
Blue-billed Duck	е	L		2003	32
Brolga	٧	L		1996	1
Brown Treecreeper	n			2003	1
Brush-tailed Phascogale	٧	L		1990	1
Common Sandpiper	٧			1988	1
Freckled Duck	е	L		2002	3
Great Egret	٧	L		2003	7
Growling Grass Frog	е	L	V	2001	1
Hardhead	٧			2003	45
Latham's Snipe	n			2000	6
Lewin's Rail	٧	L		1994	3
Little Bittern	е	L		2000	9
Macquarie Perch	е	L	Е	1970	8
Musk Duck	٧			2003	72
Nankeen Night Heron	n			2000	4
Pied Cormorant	n			1999	4
Regent Honeyeater	С	L	Е	1947	2

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Amphibromus sinuatus	Wavy Swamp Wallaby- grass	v			1950	1
Asperula charophyton	Elongate Woodruff	k			1950	1
Calochilus gracillimus	Slender Beard-orchid	k			1950	1
Chionogentias gunniana	Gunn's Forest-gentian	х			1950	1
Dianella amoena	Matted Flax-lily	е		Е		1
Eucalyptus willisii subsp. falciformis	Grampians Peppermint	r			1950	1
Eucalyptus yarraensis	Yarra Gum	r	Х		1998	10
Euphrasia collina subsp. speciosa	Purple Eyebright	х				1
Euphrasia scabra	Rough Eyebright	е	L			1
Grevillea bedggoodiana	Enfield Grevillea	V		V	1950	1
Lachnagrostis filiformis var. 2	Wetland Blown-grass	k			1950	1
Lachnagrostis punicea	Purple Blown-grass	r			1950	2
Lachnagrostis punicea subsp. filifolia	Purple Blown-grass	r	L		1950	1
Lachnagrostis punicea subsp. punicea	Purple Blown-grass	r			1950	1
Lemna trisulca	Ivy-leaf Duckweed	k			1993	2
Lepidium pseudohyssopifolium	Native Peppercress	k			1993	1
Leptospermum turbinatum	Shiny Tea-tree	r			1950	1
Pimelea spinescens	Spiny Rice-flower	е	L		1950	1
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	V		С	1950	1
Thelymitra mackibbinii	Brilliant Sun-orchid	е	N	V	1950	1
Thelymitra X macmillanii	Crimson Sun-orchid	v			1950	1

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	7
Sheet/Rill erosion – mapped area (ha) affected	0.6
Salinity – number of mapped secondary salinity affected areas	37
Salinity – area of mapped secondary salinity sites (ha)	64
Number of declared Regionally Controlled noxious weed species*	20
Number of declared Restricted noxious weed species*	18

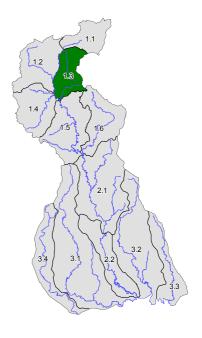
^{*} See Appendix 4 for definitions

Sub-catchment 1.3 — Canadian/Buninyong

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	6,850	4*
Public land	1,960	30
Private land	4,890	71
Land use:		
Agriculture/Horticulture	2,610	38
Conservation	440	6
Forestry	970	14
Mining	310	4
Semi-urban	280	4
Urban	1,420	21

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	650	9
Total area of remnant native vegetation on private land	1260	18
Total area of remnant native vegetation	1910	27
Endangered EVCs	100	5
Vulnerable EVCs	120	6
Depleted EVCs	280	15
Least Concern EVCs	1,410	74

EVC	EVC Name	BCS Status* Area (ha) mapped		CCMA priority EVC
20	Heathy Dry Forest	LC	1412	
22	Grassy Dry Forest	D	242	
23	Herb-rich Foothill Forest	D	36	
47	Valley Grassy Forest	V	106	
55	Plains Grassy Woodland	E	53	Y
83	Swampy Riparian Woodland	E	47	Y
128	Grassy Forest	V	14	

^{*} See Appendix 4 for definitions

Fauna - Rare and/or Threatened

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Barking Owl	е	L		1989	1
Blue-billed Duck	е	L		1986	1
Brush-tailed Phascogale	٧	L		1991	1
Glossy Ibis	n			1986	1
Grey Goshawk	٧			1992	3
Growling Grass Frog	е	L	V		
Hooded Robin	n	L		1975	1
Musk Duck	٧			1975	2

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Eucalyptus yarraensis	Yarra Gum	r	Х		1999	16

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	6
Sheet/Rill erosion – mapped area (ha) affected	15
Salinity – number of mapped secondary salinity affected areas	7
Salinity – area of mapped secondary salinity sites (ha)	28
Number of declared Regionally Controlled noxious weed species*	15
Number of declared Restricted noxious weed species*	12

^{*} See Appendix 4 for definitions

Sub-catchment 1.4 — Dog Trap/Ross

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	9,730	6*
Public land	2,680	28
Private land	7,050	72
Land use:		
Agriculture/Horticulture	5,430	56
Conservation	1,570	16
Forestry	1,250	13
Mining	135	1
Semi-urban	880	9
Urban	120	1

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	2,560	26
Total area of remnant native vegetation on private land	1,490	15
Total area of remnant native vegetation	4,050	42
Endangered EVCs	40	1
Vulnerable EVCs	190	5
Depleted EVCs	810	20
Least Concern EVCs	3,000	74

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
20	Heathy Dry Forest	LC	3006	
22	Grassy Dry Forest	D	697	
47	Valley Grassy Forest	V	187	
55	Plains Grassy Woodland	E	36	Y
128	Grassy Forest	E,v	6	
198	Sedgy Riparian Woodland	D	114	
641	Riparian Woodland	E	2	Y

^{*} See Appendix 4 for definitions

Fauna - Rare and/or Threatened

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Brolga	٧	L		2003	2
Growling Grass Frog	е	L	V	2001	4
Powerful Owl	٧	L		1999	2
Spotted Quail-thrush	n			1976	1
Swamp Skink	٧	L		1999	4

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Bossiaea cordigera	Wiry Bossiaea	r			1989	1
Calochilus gracillimus	Slender Beard-orchid	k			1990	1
Chiloglottis X pescottiana	Bronze Bird-orchid	r			1999	1
Eucalyptus yarraensis	Yarra Gum	r	Х		2000	10
Gratiola pumilo	Dwarf Brooklime	r			1996	1
Grevillea bedggoodiana	Enfield Grevillea	٧		V	1998	12
Pleurosorus subglandulosus	Glandular Blanket-fern	k			1978	1
Pterostylis aciculiformis	Slender Ruddyhood	k			1970	1

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	3.4
Sheet/Rill erosion – mapped area (ha) affected	1
Salinity – number of mapped secondary salinity affected areas	71
Salinity – area of mapped secondary salinity sites (ha)	70
Number of declared Regionally Controlled noxious weed species*	4
Number of declared Restricted noxious weed species*	3

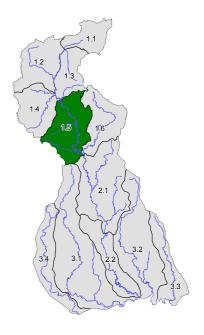
^{*} See Appendix 4 for definitions

Sub-catchment 1.5 — Lower Yarrowee

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	13,195	8*
Public land	3,595	27
Private land	9,600	73
Land use:		
Agriculture/Horticulture	8,320	63
Conservation	850	6
Forestry	2,990	23
Mining	10	<1%
Semi-urban	520	4
Urban	20	<1%

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	2,280	17
Total area of remnant native vegetation on private land	2,440	18
Total area of remnant native vegetation	4,720	35
Endangered EVCs	110	2
Vulnerable EVCs	290	6
Depleted EVCs	700	15
Least Concern EVCs	3,620	77

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
20	Heathy Dry Forest	LC	3619	
22	Grassy Dry Forest	D	694	
23	Herb-rich Foothill Forest	D	5	
47	Valley Grassy Forest	V	152	
55	Plains Grassy Woodland	Е	62	Y
128	Grassy Forest	V	78	
164	Creekline Herb-rich Woodland	V	36	
198	Sedgy Riparian Woodland	D,V	3	
641	Riparian Woodland	Е	17	Y
851	Stream-bank Shrubland	V	23	
897	Plains Grassland / Plains Grassy Woodland Mosaic	Е	29	Y

^{*} See Appendix 4 for definitions

Fauna - Rare and/or Threatened

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Barking Owl	е	L		1991	1
Hardhead	٧			1992	6
Whiskered Tern	n			1978	1

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Chiloglottis trilabra	Tall Wasp-orchid	k			2001	1
Chiloglottis X pescottiana	Bronze Bird-orchid	r			1998	2
Eucalyptus yarraensis	Yarra Gum	r	Х		2001	14
Glycine latrobeana	Clover Glycine	V	L	V	1950	1
Hypoxis vaginata var. brevistigmata	Yellow Star	k			2000	3
Pleurosorus subglandulosus	Glandular Blanket-fern	k			1950	1
Wurmbea uniflora	One-flower Early Nancy	r			1950	1

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	17.7
Sheet/Rill erosion – mapped area (ha) affected	30
Salinity – number of mapped secondary salinity affected areas	15
Salinity – area of mapped secondary salinity sites (ha)	203
Number of declared Regionally Controlled noxious weed species*	14
Number of declared Restricted noxious weed species*	11

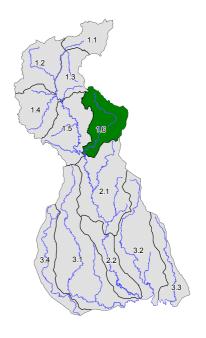
^{*} See Appendix 4 for definitions

Sub-catchment 1.6 — Williamsons

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	10,670	7*
Public land	710	7
Private land	9,955	93
Land use:		
Agriculture/Horticulture	9,100	85
Conservation	150	1
Forestry	390	4
Mining	-	-
Semi-urban	430	4
Urban	50	<1%

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	340	3
Total area of remnant native vegetation on private land	2,100	20
Total area of remnant native vegetation	2,440	23
Endangered EVCs	170	7
Vulnerable EVCs	820	33
Depleted EVCs	1,030	42
Least Concern EVCs	420	17

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
20	Heathy Dry Forest	LC	424	
22	Grassy Dry Forest	D	856	
23	Herb-rich Foothill Forest	D	178	
47	Valley Grassy Forest	V	330	
55	Plains Grassy Woodland	E	166	Y
128	Grassy Forest	V	484	

^{*} See Appendix 4 for definitions

Fauna - Rare and/or Threatened

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Black-chinned Honeyeater	n			1991	1
Common Bent-wing Bat		L		1962	1
Hardhead	٧			1992	3
Powerful Owl	V	L		1995	1

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Eucalyptus yarraensis	Yarra Gum	r	Х		2002	12

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	12.5
Sheet/Rill erosion – mapped area (ha) affected	20
Salinity – number of mapped secondary salinity affected areas	18
Salinity – area of mapped secondary salinity sites (ha)	65
Number of declared Regionally Controlled noxious weed species*	11
Number of declared Restricted noxious weed species*	6

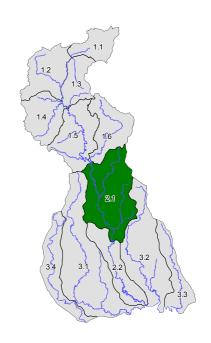
^{*} See Appendix 4 for definitions

Sub-catchment 2.1 — Upper Leigh

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area	
Sub-catchment area	20,850	13*	
Public land	970	5	
Private land	19,880	95	
Land use:			
Agriculture/Horticulture	19,620	68	
Conservation	134	<1%	
Forestry	630	2	
Mining	5	<1%	
Semi-urban	-	-	
Urban	4	<1%	

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area	
Total area of remnant native vegetation on public land	510	2	
Total area of remnant native vegetation on private land	1,010	5	
Total area of remnant native vegetation	1,520	7	
Endangered EVCs	290	19	
Vulnerable EVCs	490	32	
Depleted EVCs	540	35	
Least Concern EVCs	210	14	

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
16	Lowland Forest	LC	152	
20	Heathy Dry Forest	LC	57	
22	Grassy Dry Forest	D	536	
47	Valley Grassy Forest	V	173	
55	Plains Grassy Woodland	E	92	Y
56	Floodplain Riparian Woodland	E	3	Y
132	Plains Grassland	E	4	Y
164	Creekline Herb-rich Woodland	V	305	Y
175	Grassy Woodland	E	70	Y
641	Riparian Woodland	E	0	Y
851	Stream-bank Shrubland	E,V	30	
895	Basalt Escarpment Shrubland	E	4	
897	Plains Grassland / Plains Grassy Woodland Mosaic	E	91	Y

^{*} See Appendix 4 for definitions

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Australasian Shoveler	V			1960	1
Barking Owl	е	L		1988	1
Brolga	V	L		1995	2
Brown Treecreeper	n			2001	2
Brush-tailed Phascogale	V	L		1989	3
Fat-tailed Dunnart	n			1996	1
Hardhead	V			1960	1
Mountain Galaxias		L		1999	41
Powerful Owl	V	L		1988	2
Spotted Quail-thrush	n			1960	1
Whiskered Tern	n			1978	1

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Brachyscome cuneifolia	Wedge-leaf Daisy	k			1950	1
Comesperma polygaloides	Small Milkwort	٧	L		2001	5
Cullen parvum	Small Scurf-pea	е	L	Е	1991	4
Cullen tenax	Tough Scurf-pea	е	L		1995	2
Diuris sp. aff. chryseopsis (Basalt Plains)	Small Golden Moths	v	L	E	1950	1
Eucalyptus yarraensis	Yarra Gum	r	Х		1995	3
Glycine latrobeana	Clover Glycine	V	L	V	1998	4
Lachnagrostis punicea	Purple Blown-grass	r			1950	1
Lachnagrostis punicea subsp. punicea	Purple Blown-grass	r			1997	2
Lachnagrostis robusta	Salt Blown-grass	r			1996	2
Lotus australis	Austral Trefoil	k			2001	2
Microseris sp. 1	Plains Yam-daisy	٧			1950	1
Nicotiana suaveolens	Austral Tobacco	r			2001	4
Olearia tubuliflora	Rayless Daisy-bush	r			1971	2
Pimelea spinescens	Spiny Rice-flower	е	L		1998	2
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	٧		C	2001	2
Poa labillardierei var. (Volcanic Plains)	Basalt Tussock-grass	k			1950	1
Prasophyllum fosteri	Shelford Leek-orchid	е	L		1950	1
Prasophyllum frenchii	Maroon Leek-orchid	е	L	E	1991	2
Prostanthera nivea var. nivea	Snowy Mint-bush	r			2001	9
Rhagodia parabolica	Fragrant Saltbush	r			2001	6
Swainsona behriana	Southern Swainson-pea	r			1998	2
Thelymitra gregaria	Basalt Sun-orchid	е	L		1950	1
Tripogon Ioliiformis	Rye Beetle-grass	r			1950	1

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	60
Sheet/Rill erosion – mapped area (ha) affected	649
Salinity – number of mapped secondary salinity affected areas	23
Salinity – area of mapped secondary salinity sites (ha)	21
Number of declared Regionally Controlled noxious weed species*	14
Number of declared Restricted noxious weed species*	14

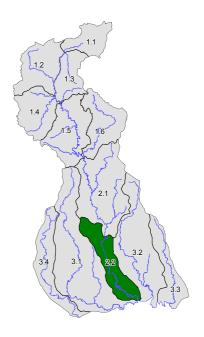
^{*} See Appendix 4 for definitions

Sub-catchment 2.2 — Lower Leigh

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	9,900	6*
Public land	1,300	13
Private land	8,600	87
Land use:		
Agriculture/Horticulture	8,300	84
Conservation	845	9
Forestry	-	-
Mining	-	-
Semi-urban	150	2
Urban	240	2

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	790	8
Total area of remnant native vegetation on private land	290	3
Total area of remnant native vegetation	1,080	12
Endangered EVCs	985	91
Vulnerable EVCs	90	9
Depleted EVCs	-	-
Least Concern EVCs	-	-

EVCs present in sub-catchment

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
3	Damp Sands Herb-rich Woodland	V	93	
55	Plains Grassy Woodland	E	738	Y
56	Floodplain Riparian Woodland	E	142	Y
125	Plains Grassy Wetland	X	2	Y
132	Plains Grassland	E	<1	Y
175	Grassy Woodland	E	12	Y
647	Plains Sedgy Wetland	E	67	Y
897	Plains Grassland / Plains Grassy Woodland Mosaic	Е	26	Y

^{*} See Appendix 4 for definitions

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Brolga	٧	L		1999	4
Diamond Firetail	V	L		1999	2
Plains-wanderer	С	L	V	1955	3

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Austrostipa hemipogon	Half-bearded Spear-grass	r			1979	1
Comesperma polygaloides	Small Milkwort	V	L		2002	10
Cullen parvum	Small Scurf-pea	е	L	Е	2001	8
Diuris sp. aff. chryseopsis (Basalt Plains)	Small Golden Moths	v	L	E	1990	1
Glycine latrobeana	Clover Glycine	V	L	V	2001	10
Lepidosperma canescens	Hoary Rapier-sedge	r			1982	1
Leucochrysum albicans subsp. albicans var. tricolor	White Sunray	е		E	2001	6
Lotus australis	Austral Trefoil	k			1990	1
Pimelea spinescens	Spiny Rice-flower	е	L		1999	6
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	v		С	2000	7
Prasophyllum aff. validum B	Woodland Leek-orchid	е		V		1
Prasophyllum fosteri	Shelford Leek-orchid	е	L		2003	18
Prasophyllum frenchii	Maroon Leek-orchid	е	L	E	1992	2
Prasophyllum pyriforme s.s.	Silurian Leek-orchid	е			1983	2
Prostanthera nivea var. nivea	Snowy Mint-bush	r			1992	2
Ptilotus erubescens	Hairy Tails		L		2002	35
Swainsona behriana	Southern Swainson-pea	r			2000	3
Thelymitra gregaria	Basalt Sun-orchid	е	L		2002	1
Thelymitra luteocilium	Fringed Sun-orchid	r			1982	1
Thelymitra X macmillanii	Crimson Sun-orchid	٧			1982	2

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	7.3
Sheet/Rill erosion – mapped area (ha) affected	144
Salinity – number of mapped secondary salinity affected areas	10
Salinity – area of mapped secondary salinity sites (ha)	10
Number of declared Regionally Controlled noxious weed species*	7
Number of declared Restricted noxious weed species*	8
Approximate area (ha) of native vegetation loss	

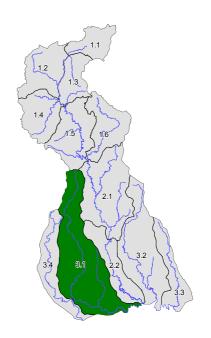
^{*} See Appendix 4 for definitions

Sub-catchment 3.1 — Warrambine

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	29,600	19*
Public land	750	3
Private land	28,840	97
Land use:		
Agriculture/Horticulture	28,740	98
Conservation	40	
Forestry	-	-
Mining	-	-
Semi-urban	115	<1
Urban	5	<1

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	30	<1%
Total area of remnant native vegetation on private land	180	1
Total area of remnant native vegetation	210	1
Endangered EVCs	210	100
Vulnerable EVCs	-	-
Depleted EVCs	-	-
Least Concern EVCs	-	-

CCMA priority EVCs present in sub-catchment

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
53	Swamp Scrub	E	20	Y
55	Plains Grassy Woodland	E	2	Y
56	Floodplain Riparian Woodland	E	12	Y
125	Plains Grassy Wetland	Х	<1	
647	Plains Sedgy Wetland	E	4	Y
897	Plains Grassland / Plains Grassy Woodland Mosaic	E	171	Y

^{*} See Appendix 4 for definitions

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Australasian Shoveler	V			1989	3
Australian Bustard	С	L		1954	4
Black Falcon	V			1979	1
Blue-billed Duck	е	L		1992	2
Brolga	٧	L		1996	5
Diamond Dove	n	L		1999	1
Elegant Parrot	٧			1954	1
Fat-tailed Dunnart	n			1995	2
Freckled Duck	е	L		1979	1
Great Egret	V	L		1979	2
Growling Grass Frog	е	L	V	1998	2
Hardhead	V			1995	4
Latham's Snipe	n			1979	3
Musk Duck	V			1995	7
Nankeen Night Heron	n			1997	1
Pectoral Sandpiper	n			1998	2
Royal Spoonbill	V			1978	1
Striped Legless Lizard	е	L	V	1995	1
Whiskered Tern	n			1980	3

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Comesperma polygaloides	Small Milkwort	٧	L		2001	8
Cullen parvum	Small Scurf-pea	е	L	Е	2001	15
Cullen tenax	Tough Scurf-pea	е	L		1993	1
Glycine latrobeana	Clover Glycine	V	L	V	1993	2
Lachnagrostis robusta	Salt Blown-grass	r			1997	3
Pimelea spinescens	Spiny Rice-flower	е	L		2000	4
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	v		С	2002	12
Poa labillardierei var. (Volcanic Plains)	Basalt Tussock-grass	k			1992	1
Prasophyllum fosteri	Shelford Leek-orchid	е	L		1991	1
Prasophyllum suaveolens	Fragrant Leek-orchid	е	L	Е	2000	4
Ptilotus erubescens	Hairy Tails		L		1950	1
Senecio cunninghamii var. cunninghamii	Branching Groundsel	r			2000	3
Tripogon Ioliiformis	Rye Beetle-grass	r			1993	1

^{*} See Appendix 4 for definitions

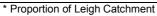
Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	0
Sheet/Rill erosion – mapped area (ha) affected	0
Salinity – number of mapped secondary salinity affected areas	14
Salinity – area of mapped secondary salinity sites (ha)	191
Number of declared Regionally Controlled noxious weed species*	14
Number of declared Restricted noxious weed species*	10

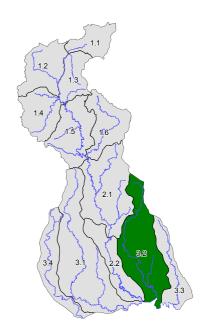
^{*} See Appendix 4 for definitions

Sub-catchment 3.2 — Native Hut

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	21,046	13*
Public land	970	5
Private land	20,080	95
Land use:		
Agriculture/Horticulture	18,850	89
Conservation	715	3
Forestry	95	<1
Mining	-	-
Semi-urban	30	<1
Urban	870	4





Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	350	2
Total area of remnant native vegetation on private land	225	1
Total area of remnant native vegetation	575	3
Endangered* EVCs	565	98
Vulnerable* EVCs	10	2
Depleted* EVCs	-	-
Least Concern* EVCs	-	-

^{*} See Appendix 4 for definitions

EVCs present in sub-catchment

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
3	Damp Sands Herb-rich Woodland	V	11	
55	Plains Grassy Woodland	E	414	Y
56	Floodplain Riparian Woodland	E	4	Y
68	Creekline Grassy Woodland	E	36	Y
132	Plains Grassland	E	30	Y
175	Grassy Woodland	E	60	Y
647	Plains Sedgy Wetland	E	0	Y
691	Aquatic Herbland / Plains Sedgy Wetland Mosaic	E	0	Y
851	Stream-bank Shrubland	Е	21	

^{*} See Appendix 4 for definitions

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Australasian Shoveler	V			2001	2
Black-chinned Honeyeater	n			2001	8
Black-eared Cuckoo	n			1979	2
Brolga	V	L		1992	3
Brown Quail	n			1980	3
Brown Treecreeper	n			1998	10
Caspian Tern	n	L		1980	1
Diamond Firetail	V	L		2000	20
Fat-tailed Dunnart	n			1995	1
Freckled Duck	е	L		1978	1
Great Egret	V	L		1989	10
Grey-crowned Babbler	е	L		1979	1
Hardhead	V			2001	9
Hooded Robin	n	L		1979	1
Latham's Snipe	n			1986	1
Little Button-quail	n			1970	1
Musk Duck	V			1979	4
Nankeen Night Heron	n			1979	3
Painted Honeyeater	V	L		1998	2
Pied Cormorant	n			1979	3
Royal Spoonbill	V			1980	1
Speckled Warbler	V	L		1979	2
Spotted Harrier	n			1979	1
Swift Parrot	е	L	Е	2001	5
Yarra Pigmy Perch	n	L	V	2000	196

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Austrostipa hemipogon	Half-bearded Spear-grass	r			1950	1
Caladenia pumila	Dwarf Spider-orchid	х	L	Х	1950	1
Caladenia sp. aff. fragrantissima (Inverleigh)	Inverleigh Spider-orchid	е			1950	1
Calandrinia volubilis	Twining Purslane	r			1950	1
Cardamine gunnii s.s.	Tuberous Bitter-cress	х			1950	2
Cardamine tenuifolia	Slender Bitter-cress	k			1950	1
Corunastylis ciliata	Fringed Midge-orchid	k			1950	1
Cullen parvum	Small Scurf-pea	е	L	E	2001	6
Dianella amoena	Matted Flax-lily	е		Е	1950	1
Dipodium pardalinum	Spotted Hyacinth-orchid	r			1950	1
Diuris punctata var. punctata	Purple Diuris	V	L		2002	5
Eucalyptus leucoxylon subsp. connata	Melbourne Yellow-gum	v	Х		1998	7
Eucalyptus yarraensis	Yarra Gum	r	Х		1950	1
Glycine latrobeana	Clover Glycine	V	L	V	1993	6
Grevillea chrysophaea	Golden Grevillea	r			1950	2
Grevillea steiglitziana	Brisbane Range Grevillea	r			1950	2
Lachnagrostis punicea	Purple Blown-grass	r			1950	1

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Lachnagrostis punicea subsp. punicea	Purple Blown-grass	r			1950	1
Lepidosperma canescens	Hoary Rapier-sedge	r			1950	1
Leucochrysum albicans subsp. albicans var. tricolor	White Sunray	е		E	2001	2
Lotus australis	Austral Trefoil	k			1950	2
Olearia pannosa subsp. cardiophylla	Velvet Daisy-bush	v	L		1950	1
Olearia tubuliflora	Rayless Daisy-bush	r			1950	2
Pimelea spinescens	Spiny Rice-flower	е	L		1950	1
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	v		С	1950	1
Prasophyllum aff. validum B	Woodland Leek-orchid	е		V	1950	1
Prasophyllum pyriforme s.s.	Silurian Leek-orchid	е			1950	1
Prostanthera decussata	Dense Mint-bush	r			1950	1
Prostanthera nivea var. nivea	Snowy Mint-bush	r			2001	3
Pterostylis smaragdyna	Emerald-lip Greenhood	r			1950	1
Ptilotus erubescens	Hairy Tails		L		2002	12
Pultenaea graveolens	Scented Bush-pea	٧	L		1950	2
Rhagodia parabolica	Fragrant Saltbush	r			1950	3
Rutidosis leptorhynchoides	Button Wrinklewort	е	L	E	1950	1
Senecio cunninghamii var. cunninghamii	Branching Groundsel	r			1950	1
Senecio macrocarpus	Large-fruit Fireweed	е	L	V	1984	3
Thelymitra hiemalis	Winter Sun-orchid	е	L		1950	1
Thelymitra luteocilium	Fringed Sun-orchid	r			1950	1
Thelymitra X macmillanii	Crimson Sun-orchid	V			2001	2

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	12
Sheet/Rill erosion – mapped area (ha) affected	8
Salinity – number of mapped secondary salinity affected areas	11
Salinity – area of mapped secondary salinity sites (ha)	36
Number of declared Regionally Controlled noxious weed species*	15
Number of declared Restricted noxious weed species*	13

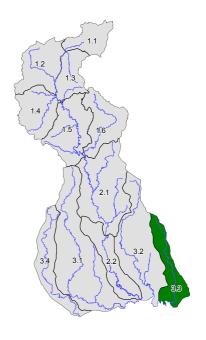
^{*} See Appendix 4 for definitions

Sub-catchment 3.3 — Bruces

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	8,432	5*
Public land	408	5
Private land	8,024	95
Land use:		
Agriculture/Horticulture	7,025	84
Conservation	300	4
Forestry	15	<1
Mining	40	<1
Semi-urban	325	4
Urban	325	4

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	90	1
Total area of remnant native vegetation on private land	100	1
Total area of remnant native vegetation	190	2
Endangered EVCs	190	100
Vulnerable EVCs	-	-
Depleted EVCs	-	-
Least Concern EVCs	-	-

EVCs present in sub-catchment

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
55	Plains Grassy Woodland	Е	161	Y
68	Creekline Grassy Woodland	E	13	Y
132	Plains Grassland	Е	19	Y
691	Aquatic Herbland / Plains Sedgy Wetland Mosaic	E	1	Y
851	Stream-bank Shrubland	E	<1	

^{*} See Appendix 4 for definitions

Fauna - Rare and/or Threatened

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Australasian Shoveler	٧			1979	1
Black-chinned Honeyeater	n			1999	9
Brown Treecreeper	n			1989	2
Brush-tailed Phascogale	V	L		1993	1
Common Dunnart	V			1964	1

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Diamond Firetail	٧	L		1995	7
Freckled Duck	е	L		1997	1
Hardhead	٧			2001	1
Hooded Robin	n	L		1989	1
Major Mitchell's Cockatoo	٧	L		1958	1
Musk Duck	٧			1978	1
Painted Honeyeater	٧	L		1995	10
Pied Cormorant	n			1989	1
Swift Parrot	е	L	Е	1979	1
Yarra Pigmy Perch	n	L	V	2000	100

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Cullen parvum	Small Scurf-pea	е	L	Е	2001	3
Eucalyptus leucoxylon subsp. connata	Melbourne Yellow-gum	v	Х		1996	8
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	v		С	2001	6
Prostanthera nivea var. nivea	Snowy Mint-bush	r			1993	1
Rutidosis leptorhynchoides	Button Wrinklewort	е	L	Е	2001	9
Senecio cunninghamii var. cunninghamii	Branching Groundsel	r			1992	1
Senecio macrocarpus	Large-fruit Fireweed	е	L	V	2002	18

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	0
Sheet/Rill erosion – mapped area (ha) affected	0
Salinity – number of mapped secondary salinity affected areas	5
Salinity – area of mapped secondary salinity sites (ha)	1.4
Number of declared Regionally Controlled noxious weed species*	11
Number of declared Restricted noxious weed species*	6

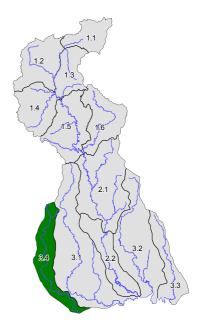
^{*} See Appendix 4 for definitions

Sub-catchment 3.4 — Mia Mia

Sub-catchment Features and Land Use Summary

Feature	Area (ha)	% of sub- catchment area
Sub-catchment area	10,653	7*
Public land	37	<1
Private land	10,616	99
Land use:		
Agriculture/Horticulture	10,460	99
Conservation	-	-
Forestry	-	-
Mining	-	-
Semi-urban	-	-
Urban	-	-

^{*} Proportion of Leigh Catchment



Environmental Asset Summary

Native Vegetation

Asset	Area (ha)	% of sub- catchment area
Total area of remnant native vegetation on public land	1	<1
Total area of remnant native vegetation on private land	50	<1
Total area of remnant native vegetation	51	<1
Endangered EVCs	50	100
Vulnerable EVCs	-	-
Depleted EVCs	-	-
Least Concern EVCs	-	-

EVCs present in sub-catchment

EVC	EVC Name	BCS Status*	Area (ha) mapped	CCMA priority EVC
53	Swamp Scrub	E	7	Y
55	Plains Grassy Woodland	E	3	Y
691	Aquatic Herbland / Plains Sedgy Wetland Mosaic	E	10	Y
897	Plains Grassland / Plains Grassy Woodland Mosaic	E	30	Y

^{*} See Appendix 4 for definitions

Species	VROT*	FFG*	EPBC*	Year of last record	Record count
Australasian Shoveler	٧			1995	1
Black Falcon	٧			2001	1
Brolga	٧	L		2000	2
Fat-tailed Dunnart	n			1995	3
Hardhead	٧			1995	1
Spot-tailed Quoll	е	L	V	1964	1
Spotted Harrier	n			2001	1
Striped Legless Lizard	е	L	V	1997	9

^{*} See Appendix 4 for definitions

Flora - Rare and/or Threatened

Name	Common name	VROT*	FFG*	EPBC*	Year of last record	Record count
Comesperma polygaloides	Small Milkwort	٧	L		1990	1
Cullen parvum	Small Scurf-pea	е	L	Е	2001	2
Lachnagrostis adamsonii	Adamson's Blown-grass	٧	L	E	1998	6
Lachnagrostis robusta	Salt Blown-grass	r			1998	3

^{*} See Appendix 4 for definitions

Threat type	Quantity
Gully erosion – mapped length (km) of gully affected	0
Sheet/Rill erosion – mapped area (ha) affected	0
Salinity – number of mapped secondary salinity affected areas	9
Salinity – area of mapped secondary salinity sites (ha)	324
Number of declared Regionally Controlled noxious weed species*	3
Number of declared Restricted noxious weed species*	1

^{*} See Appendix 4 for definitions

11. References

- LCG relies on the following list of references, and others not listed, to guide the development and implementation of our programs.
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Appendix 1 Significant roadsides in the LCG area

The following table lists roads that support areas of medium, high or very high conservation significance (RCAC conservation significant rating) remnant native vegetation. The list only includes roads that have been systematically assessed using the RCAC roadside assessment method. A large area of the Golden Plains Shire within the LCG area is yet to be assessed using this method. The highest recorded significance category for each roadside is shown.

	Sub-catchment Sub-catchment							
Road name	1.1	1.2	1.3	1.4	1.5	1.6	2.1	3.4
Alkera Road	Medium							
Allens Road	Medium							
Allisons Rd				High				
Angled Track					High	High		
Armstrong Rd				High				
Attwoods Road						High		
Aubreys Road			Medium					
Ballarat-Daylesford Road	High							
Bell Avenue			High					
Bells Road		High						
Bennett Street			Medium					
Bergs Lane			High					
Betson Road						High		
Betsons Road				1		Very High		
Blackberry Lane			Medium	1		1	1	
Blacks Rd		Medium		Medium				
Blairs Lane			Medium					
Boak Road			High					
Bodens Court				Very High				
Boroka Street	High			, ,				
Boundary Road			Very High				Medium	
Boundary Road/Baileys Road			High					
Boundary Road/Cathie Street			Very High					
Braybrook-Sandwith Rd					High	High		
Brays Rd				Medium				
Brennan Park Road					Very High	Very High		
Brennans Road					Very High			
Brickhouse Lane				Medium				
Bridge Road						High		
Buninyong-Mt Mercer Road					Medium			
Buninyong-Sebastopol Road			High					
Calverts Rd				Very High				
Cantlons Road (unformed)						High		
Cantons Lane						Medium		
Cargerie-Meredith Road							Medium	
Carolyns Road					Very High	Very High		
Cathcart Street			Medium					
Cathe Street			High					
Chapmans Lane			High					
Clarendon Blue Bridge Road						High		
Clarendon-Lal Lal Road						High		
Clarkes Rd				High	High			
Clarkes Road	High							

				Sub-c	atchment			
Road name	1.1	1.2	1.3	1.4	1.5	1.6	2.1	3.4
Clarks Road	High							
Coal Mine Road						High		
Cockatoo Road						High		
Colac-Ballarat Rd				High				
Courts Road						High		
Creswick-Bungaree								
Road	Medium							
Currawong Road			I II I-			High		
Davidsons Road Davidsons			High					
Road/Boundary Road			Medium					
Delmera Court	High							
Dereel-Mt Mercer Rd							Medium	
Ditchfield Lane	High							
Doodts Road	High							
Dozed Track			High					
Eaglehawk Drive						High		
Eason Street			Medium					
Elaine-Blue Bridge Road						High		
Eureka Street			Medium					
Finchs Road		Very High						
Finns Road					High	High		
Fire Access Road			High					
Fishers Rd						Very High		
Fisken Road			High					
Flagstaff Road						High		
Foos Road			High					
Forest Boundary Road			High					
Fortune Road	High		High					
Frawleys Road	Medium							
Fussell Street			High					
Gammock Road					Medium			
Gear Avenue			High					
Gilberts Rd					High			
Gittings Lane			High					
Glen Park Rd	High							
Glenelg Hwy		Medium						
Glenisla Road	High							
Gracefield Road	High							
Granny Whites Lane			Medium		Medium			
Granny Whites/Blackberry Lane			Medium					
Green Hill Road			High					
Greenhalghs Road		High	-					
Greenhill Road		_	High					
Griffeys Lane			High					
Hampson Rd			-		Medium			
Hayward Road						High		
Hedrick Street			Medium					
Hendersons Lane			High					
Hendersons Rd		Medium	-					
Herriot St			Medium					
Hillview Road	High							
Hiscock Gully Road			High					

				Sub-ca	tchment			
Road name	1.1	1.2	1.3	1.4	1.5	1.6	2.1	3.4
HItchcock Avenue			High					
Hocking Avenue			Medium					
Hogarths Road						Medium		
Hopgoods Lane					High	High		
Hopgoods Track						High		
Horsehill North Road						Medium	Medium	
Horsehill West Road						High	High	
Hoveys Rd					High			
Howlett Rd		Very High		Very High				
Incolls Rd				High				
Jacksons Road	Medium							
James Hill Road	Very High							
Janson Road	High							
Jindabyne Street	High							
Jollys Hill Rd		High						
Katy Ryans Road			High					
Katy Ryans Road/Unnamed track			Medium					
Kellys Road					High	High		
Kennedys Rd		High			_	=		
Kennys Rd					High			
Kierces Lane	High							
Kiewa Street	High							
Kirks Rd		Medium						
Kittys Lead Rd				High	High			
Kookaburra Road				3		High		
Kooyong Street	High					1 -		
Lal Lal-Blue Bridge Road						High		
Lavery Avenue			High			1 -		
Lears Rd & Haddon Common Rd		High						
Linden Lane	High							
Lloyds Rd					High			
Lockyer Rd					High			
Log Hut Rd				Very High				
Long Hill Road	Medium							
Long Street			High					
Longs Hill Road	High							
Lorikeet Road						High		
Luke Rd				Medium				
Lukes Rd				Very High				
Lumsden Lane				_		High		
Macs Road			High					
Main Road			High					
Manning Lane	Medium							
Martin Drive (Cnr Wallis Street)		High						
McBains Road					High			
McCarthys Road			Medium					
McCleods Road					High			
MCINTYRES ROAD					<u> </u>			High
McMasters Road						Medium		<u> </u>
Melaleuca Rd, Grevillea Rd & Lantana Rd				Medium				

		T	1	Sub-ca	atchment	T		T
Road name	1.1	1.2	1.3	1.4	1.5	1.6	2.1	3.4
Midland Highway			Medium		High	High	Medium	
Monks Rd				Very High				
Morris Rd				Very High				
Moss Avenue			High					
Mt Buninyong Access Road			Very High			Very High		
Mt Doran Settlement Road						High		
Mt Doran-Egerton Road						Very High		
Mt Helen Drive			High					
Mt Mercer-Elaine Rd							Medium	
Mt Warrenheip Road	High							
Murphy Road	<u> </u>					Medium		
Narmbool Road							Medium	
Nashs Lane					Very High	Very High		
Nashs Road			+		High	High		
		+	1	Lliah	riigii	riigii	+	
Natrass Rd		-	Lliab	High				
Navigators Road	Man 11111	1	High				1	
Nerrina Road	Very High	-					-	
Neville Rd		1	1		High		1	
Nichols Rd		Medium		Medium				
Nidschelms Road					Very High	Very High		
Nijams Road			Very High					
Nine Mile Rd				High				
Olympic Avenue			High					
Orrells Road						Medium	Medium	
Parkinsons Rd				High	High			
Pearsons Court						High		
Peers Lane					Very High			
Pioneer Lane					Very High			
Platts Road					Very High	High		
Post Office Rd		High		High	, ,			
Pryors Road		g			High	High		
R176 Road			Very High		9	9		
Race Rd		Very High	vory riigii					
Ralstons Road	High	veryrngn						
	_	+	1				+	
Raynor Road	Medium		10.1					
Recreation Road			High					
Reservoir Rd	112.1			Very High				
Richards Rd	High	1						
Richards Road	Medium	1					1	
Rosella Road		1				High	1	
Rosenows Road					High			
Ross Creek-Buninyong (Laceys) Rd		Medium		Medium				
Ross Creek-Haddon Rd		High						
Sago Hill Road		Medium						
Sand Road					High			
Sandys Hill Road					High			
Scarffs Lane			Medium					
Scotts Lane					Very High	Very High		
Scotts Road						High		
Sebastopol-Smythesdale Rd		High						

				Sub-ca	atchment			
Road name	1.1	1.2	1.3	1.4	1.5	1.6	2.1	3.4
Seven Oaks Lane	High							
Seven Oaks Road	High							
Shaws Road						High		
Simpson Street			High					
Singer Rd				High				
Skeltons Road						Very High		
Skeltons Road (unformed)						Medium		
Skurkas Road					Very High			
Sobeys Rd				High				
Sommerville Road			Medium					
South Durham Bridge Rd					High			
Spencer Street			High					
Spratlings Rd		High	-	High				
Springs Road	High					1		
State Forest Rd	-			Very High		1		
Stockyard Road					High	1		
Strickland Road	High		High					
Stringybark Drive	High							
Sullivans Rd				Medium				
Thomas Rd				Very High				
Thorpes Rd				Very High				
Tinworth Avenue			High	, ,				
Tom Robinsons Lane				High	High			
Triggs Road						High		
Tudors Lane		High						
Waddell Rd		Medium						
Wades Lane				Very High				
Walshes Lane				1, 3	High	1		
Webbs Hill Road		+	High		Very High			
Wells Rd		+		Medium	,			
White Swan Road	High							
Whites Road (unformed)						Medium		
Wide Road					Medium			
Wiggins Road						Medium		
Wilson Street			High					
Wirreanda Drive			Very High					
Woodlands Estate Rds			, ,	Medium				
Woolshed Road						High		
Wyuna Crescent		Medium				3.		
Yankee Flat Road			High					
Yendon No 2 Road		+				High		
Yendon No1 Road			Medium					
York Street		+	High			+ +		

Appendix 2 Declared noxious weeds of the Corangamite CMA region

Source: Department of Primary Industries (DPI 2008)

Scientific name	Common name	Category
Acroptilon repens	Hardheads/Russian Knapweed	Regionally prohibited
Ailanthus altissima	Tree of Heaven	Restricted
Allium triquetrum	Angled Onion	Restricted
Allium vineale	Wild Garlic	Restricted
Alternanthera pungens	Khaki Weed	Restricted
Amsinckia spp.	Amsinckia	Regionally prohibited
Asphodelus fistulosus	Onion Weed	Restricted
Calicotome spinosa	Spiny Broom	Regionally controlled
Cardaria draba	Hoary Cress	Regionally controlled
Carduus tenuiflorus	Slender/Shore Thistle	Restricted
Carthamus lanatus	Saffron thistle	Restricted
Cenchrus longispinus	Spiny Burr Grass/Gentle Annie	Restricted
Centaurea calcitrapa	Star Thistle	Restricted
Centaurea solstitialis	St Barnaby's thistle	Regionally prohibited
Cestrum parqui	Chilean Cestrum	Restricted
Chondrilla juncea	Skeleton Weed	Restricted
Chrysanthemoides monilifera	Boneseed/Bitou Bush	Regionally controlled
Cirsium arvense	Californian/Perennial Thistle	Regionally controlled
Cirsium vulgare	Spear Thistle	Restricted
Conium maculatum	Hemlock	Regionally controlled
Convolvulus arvensis	Bindweed	Restricted
Crataegus monogyna	Hawthorn	Restricted
Cuscuta spp.	Dodder	Restricted
Cynara cardunculus	Artichoke Thistle	Regionally controlled
Cytisus scoparius	English Broom	Regionally controlled
Datura ferox	Thorn Apple (long-spine)	Restricted
Datura inoxia	Thorn Apple (recurved)	Restricted
Datura stramonium	Thorn Apple (common)	Restricted
Diplotaxis tenuifolia	Sand Rocket/Sand Mustard	Restricted
Dipsacus fullonum ssp. fullonum	Wild Teasel	Restricted
Dittrichia graveolens	Stinkwort	Restricted
Echium plantagineum	Paterson's Curse	Regionally controlled
Echium vulgare	Viper's Bugloss	Regionally controlled
Emex australis	Spiny Emex	Restricted
Eragrostis curvula	African Lovegrass	Regionally controlled
Foeniculum vulgare	Fennel	Regionally controlled
Genista linifolia	Flax-leaved Broom	Regionally controlled
Genista monspessulana	Cape Broom	Regionally controlled
Homeria flaccida (Moraea flaccida)	Cape Tulip (one-leaf)	Regionally controlled
Homeria miniata (Moraea miniata)	Cape Tulip (two-leaf)	Regionally prohibited
Hypericum androsaemum .	Tutsan	Restricted
Hypericum perforatum	St. John's Wort	Regionally controlled
Hypericum tetrapterum	St. Peter's Wort	Restricted
Ibicella lutea	Devil's Claw (yellow-flower)	Restricted
Juncus acutus	Spiny Rush	Restricted
Lavandula stoechas	Topped Lavender	Restricted
Leucanthemum vulgare	Ox-eye Daisy	Regionally controlled
Lycium ferocissimum	Boxthorn	Regionally controlled

Scientific name	Common name	Category
Marrubium vulgare	Horehound	Regionally controlled
Melianthus comosus	Tufted Honeyflower	Restricted
Nassella trichotoma	Serrated Tussock	Regionally controlled
Onopordum acanthium	Scotch/Heraldic Thistle	Regionally controlled
Onopordum acaulon	Stemless Thistle	Restricted
Onopordum illyricum	Illyrian Thistle	Restricted
Opuntia monacantha (Opuntia vulgaris)	Prickly Pear (drooping)	Restricted
Opuntia robusta	Wheel Cactus	Restricted
Opuntia stricta	Prickly Pear (erect)	Restricted
Oxalis pes-caprae	Soursob	Restricted
Pennisetum macrourum	African Feather Grass	Regionally prohibited
Physalis viscosa	Prairie Ground Cherry	Regionally controlled
Picnonum acarna (Cirsium acarna)	Soldier Thistle	Restricted
Proboscidea louisianica	Devil's Claw (purple-flower)	Restricted
Reseda luteola	Wild Mignonette	Restricted
Rosa rubiginosa	Sweet Briar	Regionally controlled
Rubus fruticosus	Blackberry	Regionally controlled
Salpichroa origanifolia	Pampas Lily-of-the-Valley	Restricted
Scolymus hispanicus	Golden Thistle	Regionally controlled
Senecio jacobaea	Ragwort	Regionally controlled
Senecio pterophorus	African Daisy	Regionally prohibited
Silybum marianum	Variegated Thistle	Restricted
Solanum elaeagnifolium	Silverleaf Nightshade	Regionally controlled
Solanum linnaeanum	Apple of Sodom	Restricted
Solanum rostratum	Buffalo Burr	Restricted
Tribulus terrestris	Caltrop	Regionally controlled
Ulex europaeus	Furze/Gorse	Regionally controlled
Verbascum thapsus	Great Mullein	Restricted
Watsonia meriana var 'Bulbillifera'	Wild Watsonia	Regionally controlled
Xanthium spinosum	Bathurst Burr	Regionally controlled
Xanthium strumariam	Noogoora Burr/Californian Burr	Regionally prohibited

Appendix 3 Local Action Plan Template

I'm a Landcare Group Local Action Plan

Action plan timeframe:	Time period to which plan applies
Area covered by action plan:	Description of area to which plan applies
Action plan version:	Version number eg. 1-1 (allows tracking of updates and amendments)
Approval date:	Date of finalisation and approval by group/organisation members

PART 1

Insert appropriate sub-catchment/s information from

LCG Strategy 2017-2023

from Section 10

- Sub-catchment map
- Sub catchment Features and Landuse Summary -
- Environmental Asset Summary
- Threat Summary
- Appendix 4 Conservation status and weed category definitions

from Section 5

Attach Section 5 LCG Actions for cross referencing

from Appendix 4

Attach Conservation status and weed category definitions if appropriate

PART 2

Identify what action(s) your landcare group intends to undertake from the Leigh Catchment Strategic Plan (Section 5 Actions) and apply them where you can to specific sites, or list as specific issues.

1.List of your priority SITES. Please complete and add sites as necessary .

Site 1: (add site /asset name)
(Add description of site including location, site history, environmental features and values and previous natural resource management works),
Threat(s) (list threatening processes that are affecting the site)

List of actions/ tasks planned to be undertaken at above site. Please complete.

Proposed LCG actions	Description and methods	Stakeholders/ Partners	Timelines
List of actions to improve site and mitigate threats Section 5.1 Action reference no.	Further detail of actions and methods required to achieve action (eg establish stock proof fencing on east side of riparian zone).	List of other groups, agencies or individuals that could assist or support the action(s)	Proposed completion date

2. List of your priority ISSUES. Please complete and add issues as necessary.

Issue 1: (add name of issue)
Add description of issue
Threat(s)

Proposed LCG actions	Description and methods	Stakeholders/Partne rs	Timelines
List actions that address issue Table 6.1 reference no	Further detail of actions and methods required to achieve action	List of other groups, agencies or individuals that could assist or support the action(s)	Proposed completio n date

Appendix 4 Conservation status and weed category definitions

EVC bioregional conservation status (BCS)

Х	possibly extinct	probably no longer present in the bioregion OR if present, below the resolution of available mapping
E	endangered	less than 10% of former range OR less than 10% of pre-European extent remains (or a combination of depletion, loss of quality, current threats and rarity that gives a comparable status e.g. 10 to 30% pre-European extent remains and severely degraded over a majority of this area; OR naturally restricted EVC reduced to 30% or less of former range and moderately degraded over a majority of this area; OR rare EVC cleared and/or moderately degraded over a majority of this area)
v	vulnerable	10 to 30% of pre-European extent remains (or a combination of depletion, loss of quality, current threats and rarity that gives a comparable status e.g. greater than 30% and up to 50% pre-European extent remains and moderately degraded over a majority of this area; OR greater than 50% pre-European extent remains and severely degraded over a majority of this area; OR naturally restricted EVC where greater than 30% pre-European extent remains and moderately degraded over a majority of this area; OR rare EVC cleared and/or moderately degraded over a minority of former area)
D	depleted	greater than 30% and up to 50% of pre-European extent remains (or a combination of depletion, loss of quality, current threats and rarity that gives a comparable status e.g. greater than 50% pre-European extent remains and moderately degraded over a majority of this area)
R	rare	rare (as defined by geographic occurrence) but neither depleted, degraded nor currently threatened to an extent that would qualify as endangered, vulnerable or depleted
LC	least concern	greater than 50% or pre-European extent exists and subject to little to no degradation over a majority of this area
na	not applicable	the map unit is not a distinct native vegetation type and BCS is not applicable, OR a mosaic / complex that has no extant occurrence and BCS of the components cannot be determined

Threatened fauna status definitions

Threatened flora status definitions

¹ Victorian Rare or Threatened plant status (DSE 2005a):	² Flora and Fauna Guarantee Act 1988 (Vic):	³ Environment Biodiversity and Conservation Act 1999 (Cwlth):
x = Presumed extinct in Victoria	L = listed as threatened under schedule 1 of the Act	X = Extinct
e = Endangered	N = nominated for listing as threatened	C = listed as critically endangered
v = Vulnerable	X = rejected for listing as threatened	E = listed as endangered
r = Rare in Victoria		V = listed as vulnerable
k = Poorly Known in Victoria		

CaLP Act declared weed definitions

Regionally Prohibited Weeds	Regionally Prohibited weeds are not widely distributed in a Region but are capable of spreading further. It is reasonable to expect that they can be eradicated from a Region and they must be managed with that goal. Land owners must take all reasonable steps to eradicate Regionally Prohibited weeds on their land.
Regionally Controlled Weeds	These weeds are usually widespread and are considered important in a particular Region. To prevent their spread, continuing control measures are required. Land owners have the responsibility to take all reasonable steps to prevent the growth and spread of Regionally controlled weeds on their land.
Restricted Weeds	Includes plants that pose an unacceptable risk of spreading in the State or to other parts of Australia if they were to be sold or traded in Victoria, and are a serious threat to another State or Territory of Australia. Trade in these weeds and their propagules, either as plants, seeds or contaminants in other materials in prohibited