

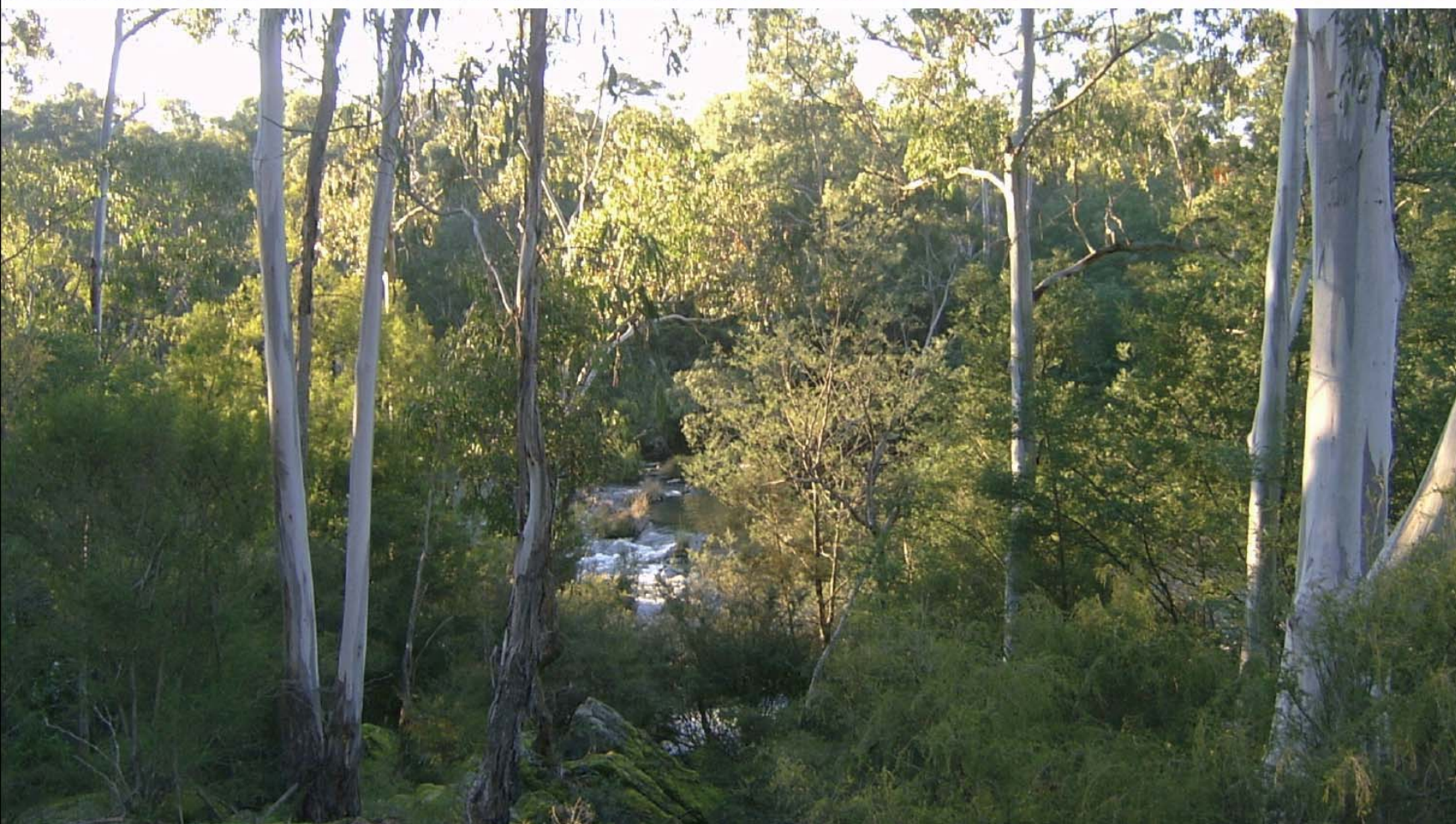
MANNINGHAM

MANNINGHAM
**GREEN
WEDGE
ACTION
PLAN
2020**

February 2011



MANNINGHAM
**GREEN
WEDGE**
A Living Place



Foreword

The Green Wedge is a valued part of Manningham that protects important remnant vegetation providing habitat for rare flora and fauna, conserving biodiversity and providing for an alternate lifestyle choice, whilst creating a desirable destination for visitors, tourists and recreational users. The Green Wedge's environmental, cultural and landscape values are important for all residents of Manningham. Manningham's residents value our municipalities, "**Balance of City and Country.**" The Green Wedge is "**A Living Place: to be valued, cared for and enjoyed by all**".

The Manningham Green Wedge is one of 12 Green Wedges around Melbourne as stated in the "Melbourne 2030" Strategy. Manningham's Green Wedge is defined in the Planning Scheme as the area outside the Urban Growth Boundary (UGB), in the Rural Conservation Zone (RCZ), with the exception of the Wonga Park Township which is mostly Low Density Residential Zone (LDRZ) as shown in Figure 1.

This Green Wedge Action Plan 2020 has been produced as part of the review of the Manningham Green Wedge Strategy 2004. In response to the review the Green Wedge Issues Paper 2010 was prepared setting out key issues and possible further work required. The Issues Paper formed the basis for community consultation conducted as part of the Green Wedge Review as detailed in Appendix 2.

This Green Wedge Action Plan lists priority actions for implementation from 2011 to 2020 and is based on the outcomes of stakeholder consultation, where four key Objectives have been identified:

- To promote and support Environmental Care and Stewardship;
- To facilitate Living and Working Sustainably;
- To ensure Sustainable Built Form and Infrastructure; and
- To provide supportive Planning Policy and Governance.

KEY

Council

ADS	Aged and Disability Services
CB	Civic Buildings
CM	Communication and Marketing
CPE	Community Planning and Engagement
ETS	Engineering and Technical Services
EEP	Economic and Environmental Planning
EO	Engineering Operations
ESAC	Environmental Sustainability Advisory Committee
FS	Financial Services
GIS	Geographic Information Systems
GOGO	Green Office Green Organisation
HLL	Health and Local Laws
OD	Organisational Development
PRS	Parks and Recreation Services
PVS	Property and Valuation Services
SCS	Social and Community Services
SP	Statutory Planning
SPr	Strategic Projects
WM	Waste Management

External

ARPANSA	Australian Radiation Protection and Nuclear Safety Agency
BV	Bicycle Victoria
CFA	Country Fire Authority
DPCD	Department of Planning and Community Development
DPI	Department of Primary Industries
DSE	Department of Sustainability and Environment
RI	Research Institute
MW	Melbourne Water
PV	Parks Victoria
NAGA	Northern Alliance for Greenhouse Action
YVW	Yarra Valley Water

Other

ESD	Ecological Sustainable Development
UGB	Urban Growth Boundary
RCZ	Rural Conservation Zone
WMO	Wildfire Management Overlay
WPBP	Warrandyte Precinct Business Plan
SWMP	Storm Water Management Plan

Contents

1	Introduction	4
1.1	Background	4
1.2	Green Wedge Location and Values	4
1.3	Purpose	5
1.4	Structure of Action Plan	6
2	Strategic Context: Challenges and Opportunities	7
2.1	Planning and Co-ordination Frameworks.....	7
2.2	Environmental and Landscape Pressures.....	7
2.3	Urban Development and Growth	8
2.4	Community and Agency Expectations.....	8
3	Strategic Framework.....	9
3.1	Vision and Strategic Framework	9
3.2	Objectives	10
3.3	Council's Role in Implementation	11
3.4	Delivering the Green Wedge Action Plan	11
4	Actions	14
4.1	Environmental Care and Stewardship	15
4.2	Living and Working Sustainably.....	18
4.3	Sustainable Built Form and Infrastructure	23
4.4	Planning Policy and Governance	26
5	Monitoring, Evaluation and Reporting	30
5.1	Monitoring and Reviewing Progress.....	30
5.2	Communication and Reporting.....	31
1.	Green Wedge Strategy 2004 Key Achievements.....	32
2.	Summary of Community Consultation.....	33
3.	List of Relevant Documents.....	33
4.	References.....	35

1 Introduction

1.1 Background

This Action Plan has been produced following the successful implementation of the first Manningham Green Wedge Strategy 2004 - 2010. The main focus of the Green Wedge Strategy 2004 was the protection of biodiversity, sustainable management of public and private land, environmental education and community engagement and empowerment.

The Strategy was implemented over a 5 year period with 85% of the 213 recommendations successfully implemented as summarised in **Appendix 1**. The remaining 15% were not completed due to either insufficient resources or amended priorities and were reviewed as part of the development of this Green Wedge Action Plan 2020.

1.2 Green Wedge Location and Values

The Manningham Green Wedge, is located generally east of the Mullum Mullum Creek on the peri-urban fringe of Metropolitan Melbourne as shown in **Figure 1**.

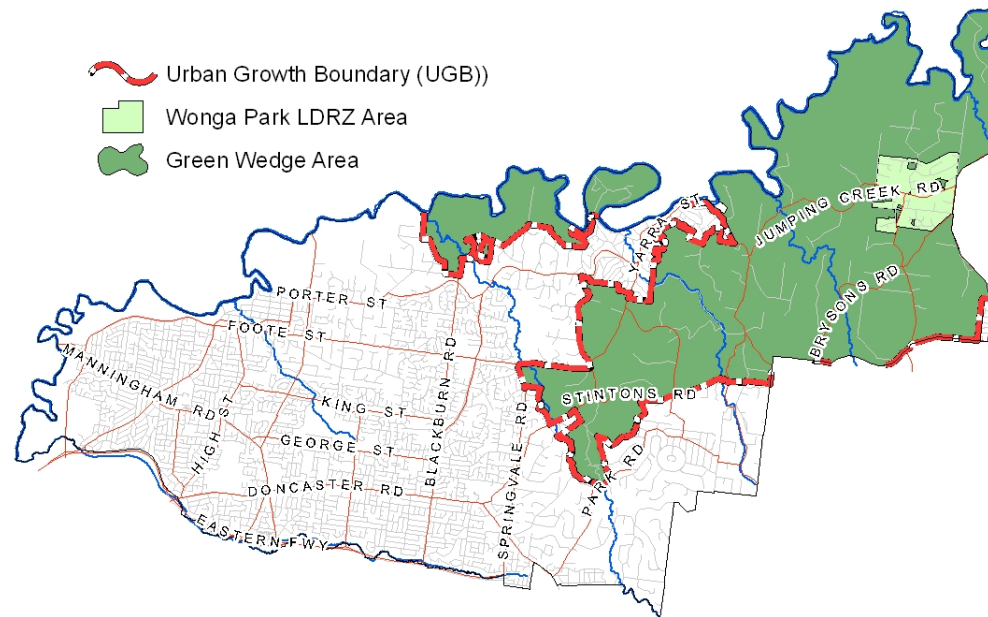


Figure 1. Map of Manningham Municipality showing the Manningham Green Wedge Area Location

The “Melbourne 2030” Strategy describes Green Wedges as:

“the open landscapes that were set aside, more than 30 years ago, to conserve rural activities and significant natural features and resources between the growth areas of Metropolitan Melbourne as they spread out along major roads and rail links.”

The Melbourne 2030 Strategy summarises the key features and related values of the Manningham Green Wedge as:

- Areas of environmental and landscape quality in the vicinity of the Yarra River and surrounding areas;
- Metropolitan and State parks, such as Warrandyte and Yarra Valley;
- Native vegetation fauna habitat; and
- Areas of productive agricultural potential.

The Manningham Green Wedge is defined as the area of the Municipality that is outside of the Urban Growth Boundary (UGB). The State Government’s introduction of the UGB in 2002 clearly indicates the long-term limits of urban development and where non-urban values and land uses should prevail in Metropolitan Melbourne. Covering some 4,322 hectares of public and private land the Manningham Green Wedge is mainly zoned Rural Conservation Zone (RCZ), which seeks to protect and enhance the natural environment and natural processes for their historic, archaeological, scientific, landscape, fauna habitat and cultural values. The zone provides for agricultural use consistent with the environmental and landscape values of the area.

1.3 Purpose

The purpose of the Green Wedge Action Plan 2020 is to:

- Address the challenges and opportunities identified during the implementation and review of the Green Wedge Strategy November 2004;
- Provide a Strategic Framework and approach to implementation for the management of the Green Wedge up to 2020;
- Ensure a clear plan of action up to 2020; and
- Provide a set of targets and a monitoring and review process to ensure measurement and reporting against progress.

For a more detailed overview of the background of the Manningham Green Wedge refer to the Green Wedge Strategy November 2004, the 4 Annual Progress reports on implementation and the Issues Paper 2010 developed as input into the consultation for the review of the Strategy.

1.4 Structure of Action Plan

The structure of the Action Plan is in line with stakeholder feedback from the review of the Green Wedge Strategy November 2004, capturing priority issues with a clearer direction for implementing actions and reduced duplication.

The Action Plan is set out in two parts

PART A. STRATEGIC FRAMEWORK FOR ACTION

Section 2 summaries the **challenges and opportunities** affecting the Green Wedge grouping them into four types of issues:

- Planning and Co-ordination Frameworks;
- Environmental and Landscape Pressures;
- Urban Development and Growth; and
- Community and Agency Expectations.

From an understanding of these issues and Council's role Section 3 sets out:

- Key **objectives**;
- **Council's role in implementation**; and
- The key elements to **deliver on the Action Plan**.

Section 4 sets out the **Actions** together with:

- Timing;
- Council role;
- Responsibility; and
- Resources required.

Section 5 outlines the framework for monitoring, evaluation and reporting including a set of targets, an indication of frequency of measurement and the responsibility for monitoring.

Part B. SUPPORT MATERIAL

APPENDICES

1. Green Wedge Strategy 2004 key achievements;
2. Summary of Community Consultation;
3. List of Relevant of Documents; and
4. References.

PART A. STRATEGIC FRAMEWORK

2 Strategic Context: Challenges and Opportunities

This Action Plan reflects the roles and powers of Council to respond to a number of strategic challenges and opportunities affecting the future of the Green Wedge. These include:

2.1 Planning and Co-ordination Frameworks

- The planning environment remains complex, uncertain and subject to change at a State level.
- Greater state government involvement and intervention in planning decisions may undermine community confidence in the planning system and Council's ability to manage the Green Wedge effectively.
- Current zoning provisions may hamper the development of Green Wedge businesses, especially agricultural and some tourism operations.
- Council objectives may not be consistent with those of Council departments and with State Government agencies.

2.2 Environmental and Landscape Pressures

- Pressure on the natural landscape will increase as a result of climate change, increased population, higher visitation rates, the impact of pest plants and animals, changing land-use patterns and altered fire regimes.
- Climate change will increase temperatures, reduce rainfall and increase the frequency of extreme weather events including heat waves, droughts and severe flooding. These changes will impact all aspects of the local natural and built environment, including:
 - local plant and animal communities;
 - flows in our waterways;
 - private and community parks, gardens and streetscapes; and
 - provision and maintenance of infrastructure to accommodate resident needs and aspirations.
- Key land management challenges include reversing the incremental loss of native vegetation, weeds, pest animals, fire, water availability and quality and biodiversity protection.
- There are also opportunities for greater community understanding and engagement in the local environment.

2.3 Urban Development and Growth

- Future Green Wedge infrastructure (e.g. roads, water, lighting, sewage, telecommunications, walkways, etc) and services (e.g. waste collection, public transport) will be predominantly influenced by:
 - Risk mitigation, liability, adaptation, safety, climate change, peak oil;
 - Changing demographics (e.g. young families/ageing population which affects land use and management);
 - Increasing population and visitation rates; and
 - Changing community aspirations and living standards.
- These factors will create new demands and challenges for housing, maintaining community fabric and sense of neighbourhood and for providing urban amenity equivalent to highly developed suburbs in a more urbanised landscape.
- The scarcity of land within Metropolitan Melbourne may disproportionately raise Green Wedge land values and increase pressure for subdivision of Green Wedge land.
- Provision of infrastructure and operation of services in the Green Wedge should be sensitive and responsive to the non-urban landscape and environmental values of the Green Wedge.
- Risk mitigation and adaptation strategies to climate change will be required to address:
 - Increased health risk for vulnerable groups in the community that are susceptible to heat stress, such the elderly, very young and ill;
 - Increased heat, flood and storm damage to residential, commercial and community buildings and infrastructure (roads, power, water supply, drainage, sewerage, etc.); and
 - Increased risk of bushfire.

2.4 Community and Agency Expectations

- Council has strong overall support from the Manningham community for the protection and maintenance of the Green Wedge.
- The community's level of understanding of the environmental, social and economic values of Green Wedge is varied.
- The community's level of commitment to the Green Wedge may change through factors such as response to increased fire risk; equally higher emphasis could be placed on low carbon, less consumptive futures (e.g. more local markets, buy local campaigns etc).
- There is a difference between service provision of standards equal to urban amenity and the maintenance of a semi-rural landscape.
- There is an increase of community-organised responses to future climate change challenges (e.g. community fireguard, transition towns, Warrandyte Climate Action Now).

3 Strategic Framework

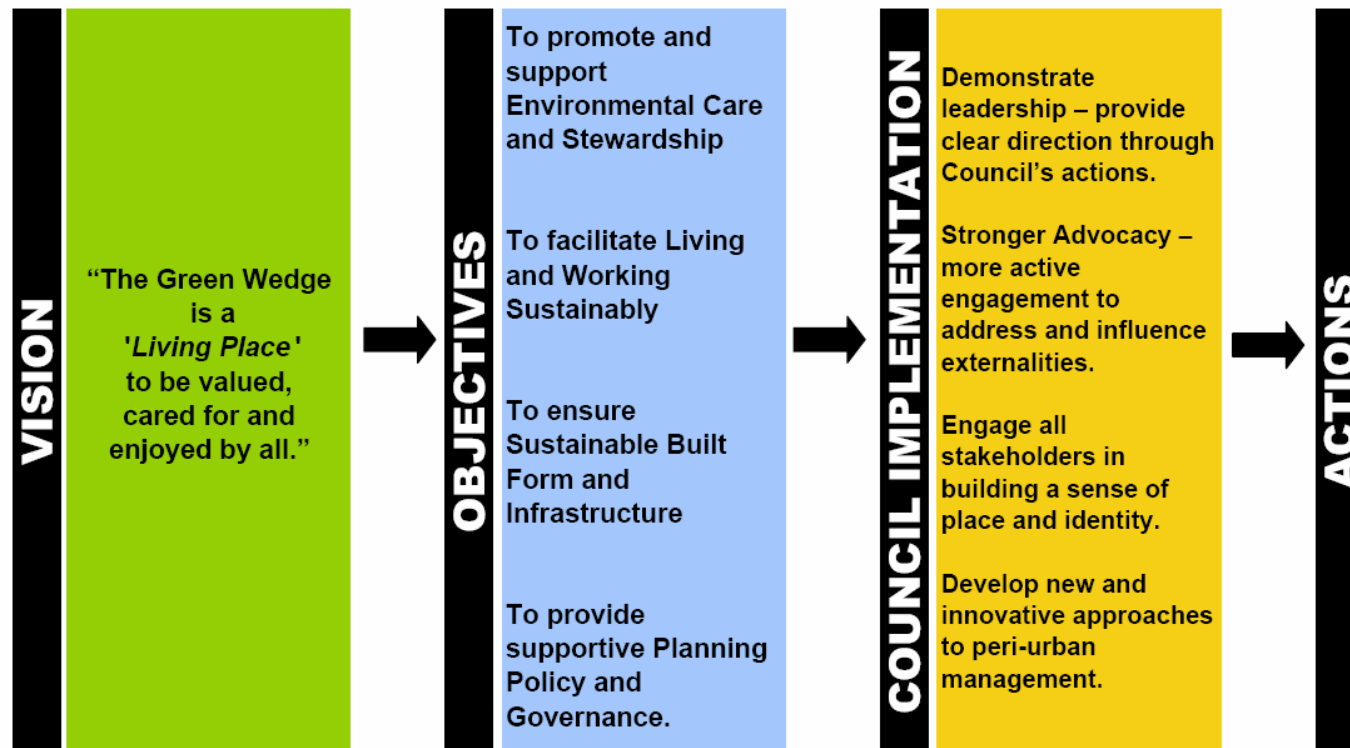
3.1 Vision and Strategic Framework

The Green Wedge is a planning model where open space and natural environmental values are appreciated and cared for by and for the benefit of all members of the Manningham community.

The community actively participates in the stewardship of the landscapes, biodiversity and cultural heritage of the Green Wedge and enjoy lifestyles that are in sympathy with the protection of these values for the benefit of future generations.

The Manningham Green Wedge is respected and looked after as part of the larger Yarra Valley corridor.

Figure 2: Vision, Objectives and Council Implementation



3.2 Objectives

3.2.1 To promote and support Environmental Care and Stewardship:

- Protect and restore the ecological processes that provide clean air, waterways, soil, resilient natural plant and animal communities and scenic amenity;
- Assess and manage risks for both short-term and long-term ecosystem health and landscape values in the Green Wedge;
- Provide systems, tools and procedures to adequately account and manage our natural assets; and
- Empower the community to enable them to carry out their environmental responsibilities effectively.

3.2.2 To facilitate Living and Working Sustainably:

- Empower community leaders and facilitate opportunities for all in the community to be sustainable, healthy & safe;
- Reduce the ecological impacts and footprint with the way we live and work in the Green Wedge;
- Build a well informed community equipped to respond to sustainability opportunities and challenges; and
- Ensure that the long-term economic viability of the Green Wedge is built on businesses and jobs which are also environmentally and socially sustainable.

3.2.3 To ensure Sustainable Built Form and Infrastructure:

- Design, develop and manage Green Wedge infrastructure in ways that maintain biodiversity and are consistent with regional ecological models;
- Ensure that the built form is designed and developed for the long term, with an understanding of and relationship to the natural landscape, local plant and animal communities, is resourced efficiently and is climate wise;
- Facilitate a range of efficient, accessible and affordable transport options that readily connect neighbourhoods, work places, community facilities, services and enable people to participate in community life; and
- Create places that are safe, respect cultural identity and are inclusive and functional for all members of the community.

3.2.4 To provide supportive Planning Policy and Governance:

- Ensure good governance policies and procedures for environmental decision-making with integrated social and economic sustainability objectives, that are based on consideration of both short-term and long-term impacts, risks and opportunities;
- Ensure Council staff and Councillors are engaged and competent with sustainability practice;
- Monitor and evaluate Green Wedge performance across all aspects of Council operations and report regularly to the community in meaningful ways; and
- Provide and implement the necessary legal environmental protection consistent with Council's powers and best practice.

3.3 Council's Role in Implementation

From an understanding of Council's role this section identifies how best to direct Council's resources. Four key directions have been identified to guide Council's role to implementing the Green Wedge Action Plan:

3.3.1 Demonstrating leadership – provide clear direction through Council's actions.

As the lead agency for the provision of planning and services to the Manningham community, Council has a responsibility to demonstrate leadership for the stewardship and sustainability of the Green Wedge. This includes providing clear direction for managing pressures on the Green Wedge including the demands of economic growth, urbanisation, changes in community attitudes and challenges such as climate change, drought, fire, pests, weeds etc. To meet the community's aspirations for the Green Wedge, Council will need to build more consistent and coordinated action to the highest levels of performance and demonstrate sustainability through Council's own actions.

3.3.2 Stronger advocacy - more active engagement to address and influence externalities.

Achieving the vision depends on many changes that are outside the direct control of Council. Finding lasting solutions to the complex relationships between urban development, landscape, biodiversity and cultural heritage protection is challenge requiring coordinated partnerships between neighbouring councils, state government organisations and a multitude of stakeholders. Council must lead, partner and influence other decision makers to actively advocate for a sustainable future for the Green Wedge. This includes influencing the actions of other agencies and organisations in support of sustainability goals and advocating for changes to policy planning and regulatory environments that will ensure the long term protection and sustainability of the Manningham Green Wedge.

3.3.3 Engaging stakeholders in building an enduring sense of place and identity.

The Manningham community has a strong support for the Green Wedge. This cannot be guaranteed over time. All levels of the community – individuals, households, local business operators, community groups and local service providers require support and engagement from Council to maximise the contributions they can make to work towards the vision for the Green Wedge. Marketing and branding of the Green Wedge location and values are also important in creating a sense of community pride, place and identity along with support for households, landholders, businesses, community organisations and Council staff to become more sustainable.

3.3.4 Developing new and innovative approaches to semi-rural/urban development.

Looking after the Green Wedge is a complex business. There are many stakeholders and problems are often multi-faceted. Achieving a balance between the broader community good and individual rights and responsibilities will mean that Council must develop new and innovative approaches to development in the Green Wedge.

3.4 Delivering the Green Wedge Action Plan

Section 4 sets out the actions required to deliver on the Plan. They are grouped under four theme headings:

1. Environmental Care and Stewardship;
2. Living and Working Sustainably;
3. Sustainable Built Form and Infrastructure; and
4. Planning Policy and Governance

3.4.1 Incorporation of Green Wedge objectives into key Council Strategies

The importance of the Green Wedge is recognised in the Council Plan 2009-2013 with progress of the Green Wedge Action Plan being reported in Council's Annual Report. The Manningham Planning Scheme identifies the Green Wedge as one of 10 key focus areas in the Municipal Strategic Statement (MSS).

Many of the Green Wedge actions identified by stakeholders are contained within other Council Strategies or Plans (refer to **Figure 3**, below). The success of implementation for the Green Wedge Action Plan is to continue to influence these Strategies and ensure that when they are due for review a focus is placed on the specific requirements of the Green Wedge.

Figure 3: Green Wedge Action Plan in relationship to other Manningham Strategies and Plans



3.4.2 Management of the Green Wedge

Successful implementation of the Green Wedge Action Plan also requires an approach to managing the Green Wedge that sets up an institutional response to drive actions. This will be driven by:

Cross Organisation Working Group

This will include identifying opportunities to better co-ordinate all areas of Council responsible for the management of natural resources, service delivery, capital works programs, contractors and suppliers. To drive this approach it is suggested that a cross organisational working group be established to provide a focus for the delivery of the Green Wedge Action Plan. This Group would be responsible for: identifying synergies; integrating efforts; coordination of environmental management across private, public and Council managed lands; and, ensure all major Council strategies consider the Green Wedge by delivering appropriate responses and actions to Green Wedge issues. The Working Group would also be responsible for motivating for funding and supporting and empowering all stakeholders.

Green Wedge Champions

Effective engagement and an integrated approach to working with partners and stakeholders needs to be supported by identified champions within Council, the community and other key stakeholder groups. Champions will be especially important in providing support for advocacy activities and engaging in building an enduring sense of place and identity. This will include providing a focus for profiling the values and activities of the Green Wedge.

4 Actions

The actions outlined in this section have been identified from an assessment of the implementation of the Green Wedge Strategy 2004 and consultation undertaken as part of the review process. For each theme, sub groups of actions are identified together with: the role of council; the stakeholders and Council unit/s responsible to drive/advocate the action; the resources required, and the timing of the action.

The timeframe for the actions are designated as:

Timeframe:

Short (short term) **Years 1 – 3** (2011 – 2013)

Med (medium term) **Years 4 – 6** (2014 – 2016)

Long (long term - subject to funding) **Years 7 – 10** (2017 – 2020)

Ongoing (continuing/improving current action)

Council's Role

The structure and types of action reflect the roles and powers of Council (refer section 3.3):

- D** - **Demonstrate** leadership;
- A** - **Advocate**;
- E** - **Engage** all stakeholders; and
- I** - **Innovate**.

*Note: The Actions **shaded in the tables** in section 4 will be of particular focus for the work plan of the Cross Organisational Working Group.*

Responsibility

The abbreviations for the list of groups responsible for actions are located on page 3. External stakeholders identified are listed groups outside Council that are important to achieve the delivery of the action.

Resources

While a large number of actions are identified to be undertaken within existing resources (either within Council or by external agencies), where additional resources are required an estimate is provided. For these actions further motivation for funding will be provided once detailed scoping of the actions is undertaken which will also include any opportunities to secure grants and other external funds.

4.1 Environmental Care and Stewardship

These actions support efforts to face the challenges of climate change, reduced water, increased risk of fire, diminishing natural resources and increasingly strained ecological systems with a focus on bushland and biodiversity, pest plant and animals, bushfire management and community support.

Manningham's 'bushland' are those areas of land in private and public ownership which contain vegetation species that occurred naturally in the municipality prior to European settlement. This vegetation is also referred to as 'remnant' or 'indigenous' vegetation. It includes hundreds of species of grasses, rushes and sedges, herbs and forbs, ferns, creepers and climbers, aquatic plants, shrubs and trees.

Bushland quality varies across the municipality. High quality bushland contains a structure according to its community type. Most local vegetation communities are composed of at least three layers - usually canopy (trees), mid-storey (shrubs) and ground storey (grasses herbs etc). Elements including large old trees with hollows, logs on the ground, leaf litter, and connectivity with other bushland areas are also valuable. Even low quality bushland that may only have one or two of the original layers and elements left can still be very important habitat to fauna such as birds, insects, frogs and lizards.

Project Title	Action	Timing	Council Role	Responsibility	Resources
4.1.1 Biodiversity					
E-1 Biodiversity Research	<ul style="list-style-type: none"> Initiate, facilitate and support biodiversity research to address issues including: scarcity of large, old trees, weed cover and abundance; fragmentation of habitat into relatively small, disjointed patches; and maintenance of native tree cover. 	Medium	D, I	EEP (RI)	Internal
E-2 Monitoring	<ul style="list-style-type: none"> Conduct native vegetation quality and extent monitoring every 5 years to measure vegetation health over time. 	Short Long	D, I	EEP (RI)	\$30,000 External
E-3 Bushland Management Action Plan	<ul style="list-style-type: none"> Review the structure and purpose of the Draft Bushland Management Action Plan and implement as appropriate. 	Short	D	EEP, PRS	Internal
E-4 Roadside Environmental Management Strategy	<ul style="list-style-type: none"> Continue to implement the Roadside Environmental Management Strategy June 2004 including staff and contractor training and review the Strategy and Handbook (April 2005). Refer S-4. 	Short	D	EEP, ETS, PRS	Internal
E-5 Wildlife Protection	<ul style="list-style-type: none"> Review and implement relevant actions arising from the "Wildlife Movement and Habitat Needs in Manningham" study, including the introduction of wildlife road signs. 	Short Medium	D, I	EEP, EO	Internal

Project Title	Action	Timing	Council Role	Responsibility	Resources
4.1.2 Pest Plants and Animals					
E-6 Integrated Pest Plant and Animal Management	<ul style="list-style-type: none"> Investigate and implement the most efficient methodology to achieve an integrated and interagency approach to Pest Plant and Animal Management across private property, agricultural land, State Government and Council managed reserves and roadsides. 	Short	D, I, A	EEP, HLL	Internal
	<ul style="list-style-type: none"> Investigate and implement as appropriate, methods and techniques to avoid or minimise the negative impacts of domestic animals on Green Wedge natural values, including; feasibility and desirability of a cat curfew and sustainable horse stocking rates that concur with Local Law controls. 	Short Medium	D, E	EEP, HLL	Internal
	<ul style="list-style-type: none"> Advocate to the State Government for the development and implementation of appropriate management strategies to reduce negative impacts on agriculture and/or biodiversity from unsustainable numbers of protected wildlife species including; Sulphur Crested Cockatoos, Rainbow Lorikeets, Red Wattlebirds, Fruit Bats, Kangaroos and Sambar Deer on both public and private land. 	Short	A	EEP (DSE)	Internal
4.1.3 Fire Management					
E-7 Integrated Fire Management Planning (IFMP)	<ul style="list-style-type: none"> Continue participation in the Integrated Fire Management Planning (IFMP) framework to ensure a cohesive and consistent approach to fire management planning at the state, regional and municipal levels, including the production and implementation of a Municipal Integrated Fire Management Plan. 	Ongoing	D, I, A, E	EO, HLL, EEP (CFA)	Internal
	<ul style="list-style-type: none"> Liaise with the CSIRO to investigate undertaking a fire risk mapping project as part of the review of the Wildfire Management Overlay & associated local policy. Refer to P-3. 	Short	D, I, A	EEP, HLL	Internal
E-8 Net Gain Management	<ul style="list-style-type: none"> Ensure Council's goal of Net Gain is aligned or not in conflict with the need to manage vegetation for fire prevention and protection, including the '10/30 right' and strategic roadside firebreaks. 	Ongoing	D, A, E	EEP, SP	Internal
E-9 Bushfire Prevention and Preparedness Plans	<ul style="list-style-type: none"> Continue to develop and implement "Bushfire Prevention and Preparedness Plans" (BPPP's) for high bushfire risk Council Reserves as part of the Integrated Fire Management Planning Process. The aims of the project are to: <ul style="list-style-type: none"> ➤ Identify and assess areas of open space which constitute a bushfire risk, ➤ Identify the nature and level of the risk(s) for each area, and ➤ Make recommendations to mitigate and manage that risk for the 	Ongoing	D, I, A, E	EO, HLL, EEP, PRS	Internal

Project Title	Action	Timing	Council Role	Responsibility	Resources
	protection of the general community, adjoining properties and residents, as well as Council buildings, facilities and assets and where possible sites or areas of environmental significance or high biodiversity value.				
E-10 Bushfire Royal Commission	<ul style="list-style-type: none"> Facilitate and implement as appropriate all relevant findings of the Bushfire Royal Commission including: <ul style="list-style-type: none"> The update of fire prevention notices, strategic fuel reduction and ecological burns on Council managed and privately owned land; Support the state government revisions to the State Planning policy on bushfire; and, Refer to P-3 action. 	Short Medium Long	D, I, A, E	EO, HLL, EEP	Internal
4.1.4 Community Support					
E-11 Cultural Heritage Awareness	<ul style="list-style-type: none"> Continue to incorporate Cultural Heritage Awareness into the Environmental Seminar Series and the Property Management Planning Course. 	Ongoing	D, E	EEP	Internal
E-12 Landcare Support	<ul style="list-style-type: none"> Council to continue to assist and expand upon the success of the Middle Yarra Land Care Network including: to facilitate the development of Mullum Mullum Creek and Brushy Creek Catchment Landcare Groups. 	Ongoing	E	EEP	Internal
E-13 Sustainable Land Management Agreements	<ul style="list-style-type: none"> Provide additional financial support to landholders willing to enter into longer term voluntary sustainable land management agreements. 	Ongoing	E	EEP	Internal
E-14 Community Group Support	<ul style="list-style-type: none"> Expand support for all Green Wedge community groups through provision of training, leadership, plants and planting equipment, finance and information, e.g. Rabbit Groups and Landcare. 	Ongoing	D, E	EEP, SCS	Internal & external grants

4.2 Living and Working Sustainably

Council has a role to help the community to reduce their ecological footprint through helping residents, businesses and community organisations to use resources more efficiently, choose more efficient transport options, choose locally produced food and products and minimise energy use and waste. Council will be required to lead by example as well as design and deliver targeted and innovative programs that are socially inclusive by addressing the needs of both current and future generations.

The actions in this section aim to have more informed communities committed to improve social and cultural values concerning stewardship for the environment and cultural heritage including Indigenous culture.

Project Title	Action	Timing	Council Role	Responsibility	Resources
4.2.1 Education and Engagement					
L-1 Green Wedge Community Engagement Program	<ul style="list-style-type: none"> Encourage a sense of place and community spirit in the Green Wedge through: review of Green Wedge branding, implementation of signage plan and markers, marketing and communication to raise profile and importance of the Manningham Green Wedge values. 	Short Medium	E	EEP, CM	Internal
	<ul style="list-style-type: none"> Increase engagement and empowerment of targeted Green Wedge and Low Density Residential Zone landholders to protect Biodiversity through: the provision of Biodiversity Incentive Programs and Net Gain information and training sessions. 	Ongoing	E	EEP	Internal
L-2 Community Leadership	<ul style="list-style-type: none"> Encourage community leadership through rewarding and empowering long-term landholder stewards from Biodiversity Programs to become community leaders that empower others from their experience. Continue to support the Sustainable Youth Leaders Program. 	Ongoing	E	EEP	Internal
L-3 Sustainable Horse Management	<ul style="list-style-type: none"> Investigate opportunities to encourage sustainable horse management, including: <ul style="list-style-type: none"> ➤ Increased attendance at the annual “Managing Horses on a Small Property” course; ➤ Engagement and support of pony clubs and riding clubs; ➤ Introduction of registration of stock through a Local Law; ➤ Review the Local Law on stock carrying capacity to align with findings of “The Manningham Land Capability and Land Use Study 2004”; and, ➤ Review Planning Scheme controls to determine the ability of the scheme to set standards for sustainable land management, specifically in relation to animal stocking rates. 	Medium Long	D, E	EEP, HLL, SP	Internal
L-4 Sustainability Education Programs and materials	<ul style="list-style-type: none"> Continue to engage and educate the community through continuously improving the delivery of Sustainability seminars and programs including: Sustainable Gardening seminars; Better Living Program; Spring Outdoors; Growing Community Awareness (energy efficiency & clean energy programs), Environmental Seminars and Nature Walk program; Property Management Planning Courses; and by supporting Community Neighbourhood Houses. 	Ongoing	E, D	EEP, SCS	Internal

Project Title	Action	Timing	Council Role	Responsibility	Resources
	<ul style="list-style-type: none"> Continue to provide relevant and updated support materials e.g. Weed ID, Native Splendour, Sustainable Living Guide, Land Management Guide. Provide new and existing residents in the Green Wedge with an introductory guide to living in the area, including information regarding surrounding farming activities and issues. Review previously distributed Green Wedge Information Kits for New Residents and include Real Estate Agents on distribution list. 	Ongoing Short			
L-5 Schools Engagement Program	<ul style="list-style-type: none"> Engage and support Green Wedge and all Manningham schools to foster an appreciation of Manningham's Green Wedge and sustainability values in their students and school communities through a range of programs including; <ul style="list-style-type: none"> ➤ Council facilitated Green Wedge Schools Network; ➤ the Sustainable Youth Leaders and Water Watch Programs ; ➤ National Tree Day & Indigenous Cultural Day School Plantings; ➤ Council sponsorship of Manningham school students to attend the annual Melbourne Water River Health Youth Conference; ➤ Advocating an increase in the number of schools participating in the Resource Smart Schools Program; ➤ Delivery of Council's Waste Reduction and Waterwatch education programs; ➤ Advocate participation in the "Ride2School" network and seeking the reinstatement of Environmental Education Programs at Currawong Bush Park. 	Ongoing	E, A	EEP, WM, PRS (partner - BV).	Internal
4.2.2 Working Sustainably - Business					
L-6 Business Community Support	<ul style="list-style-type: none"> Identify the niche markets and business opportunities with the most economic potential for development in the Green Wedge including: ecotourism; health tourism; Bed and Breakfast accommodation; home based businesses; locally grown produce; and farmers markets. 	Medium	E, I	EEP	\$20,000
	<ul style="list-style-type: none"> Support the existing business community through: <ul style="list-style-type: none"> ➤ Promotion of businesses in Council Publications; ➤ Sustainability retro fitting of Manningham businesses via bulk purchasing programs; ➤ The continuation of sustainable business seminars and the Sustainable Business e-bulletin; ➤ Continue involvement in Northern Alliance for Greenhouse Action (NAGA) economic working group; and ➤ Delivery of education and awareness programs to assist businesses to be more 	Ongoing	E, I	EEP	Internal

Project Title	Action	Timing	Council Role	Responsibility	Resources
	environmentally sustainable and able to respond to climate change and peak oil.				
L-7 Green Wedge Local Activity Centres	<ul style="list-style-type: none"> Continue to support implementation of the actions identified in the Manningham Local Activity Centres Plan July 2007 for Wonga Park businesses at Jumping Creek Road, Launderers Avenue, Yarra Road and the General Store at Ringwood Warrandyte Road, Warrandyte South. 	Ongoing		EEP	Internal
L-8 Warrandyte Business Precinct Business Plan	<ul style="list-style-type: none"> Implement the Warrandyte Precinct Business Plan (WPBP) 2010-2020, supporting the Green Wedge Action Plan objectives, including a 'walkability' pilot program through the Warrandyte Township to encourage more walking, cycling and access via public transport. 	Short	D, E, I, A	EEP (WBA)	Funded in WPBP
L-9 Sustain viable agricultural and rural businesses	<ul style="list-style-type: none"> Investigate how council can help sustain existing agricultural businesses in the Green Wedge and support other economically viable opportunities for this land including a review of the Rural Conservation Zone and local planning policy provisions, with consideration of global issues such as; peak oil, food miles and food security. Investigate feasibility of financial mechanisms to support sustainable agriculture eg. a "Farm Rate" or "farm grant" for primary producers. Advocate to State Government to consider the sale of value added products in Rural Conservation zones. Continue to work with primary producers as appropriate to address their concerns and issues on a one to one/case by case basis. Advocate to research institutions for research partnerships to enhance best practice for sustainable small property management and opportunities to transition out of farming. 	Medium Long	E, A, I	EEP, SP, FS	\$20,000
L-10 Water Harvesting	<ul style="list-style-type: none"> Advocate for alternative water sources for land holders/farmers such as recycled water through backlog sewer implementation in the Green Wedge and include in the Storm Water Management Plan (SWMP) in 2011. Consider opportunities to facilitate the harvesting of storm water for private land holder access where feasible, e.g. storm water harvesting from roads and infrastructure developments. 	Short Medium Long	A, D, I	EO, SP	To be funded in SWMP
4.2.3 Tourism					
L-11 Manningham Tourism Strategic Plan	<ul style="list-style-type: none"> Continue to implement the Manningham Tourism Strategic Plan July 2007, including: assisting Petty's Orchard to develop their tourism potential; promoting interpretive environmental walks; promoting selected bicycle/walking paths, linking a variety of tourist destinations and 	Ongoing	D, I, E	EEP	Internal & external grants

Project Title	Action	Timing	Council Role	Responsibility	Resources	
	activities; and identifying niche markets with the most economic potential for development in Manningham Green Wedge.					
4.2.4 Health and Social Well Being						
L-12	Health Promotion	<ul style="list-style-type: none"> Promote the health benefits to all ages of spending time outdoors in nature and being involved in community environmental programs and engage Manningham residents in opportunities to enjoy the natural environment of the Green Wedge (ie. Landcare, Nature Walks, Friends Groups etc.). 	Ongoing	E	EEP, SCS	Internal
L-13	Relevant Council Strategies	<ul style="list-style-type: none"> Engage the community in increased physical activity through the development, implementation or promotion of the Green Wedge components of the following council strategies: <ul style="list-style-type: none"> ➤ Public Open Space Strategy 2004 (currently under review). ➤ Manningham Walking Strategy (currently being developed); ➤ Manningham Bicycling Strategy (2006) (currently under review); ➤ Manningham Horse Riding Strategy (2002); and, ➤ The Active for Life Manningham Recreation Strategy 2010 – 2025 (February 2010). 	Ongoing	D, E	EEP, SCS	Internal
L-14	Social Well Being	<ul style="list-style-type: none"> Continue to cultivate the social sustainability of Council's environmental programs which fosters new relationships and community networking. 	Ongoing	E	EEP, SCS	Internal
L-15	Trail Networks	<ul style="list-style-type: none"> Advocate and develop the further expansion and linkage of trail networks to the Manningham Green Wedge through: <ul style="list-style-type: none"> ➤ investigation of the feasibility to develop a 'Greenway Linear Park' (for additional recreation and access opportunities) along the Melbourne Water Pipe Track from Doncaster to Wonga Park in consultation with the adjoining landholders; ➤ support for the Parks Victoria action to "Extend the Main Yarra Trail from Petty's Orchard to Warrandyte and then onto Watson's Creek" (Linking People and Spaces, Parks Victoria 2002); ➤ advocating for the creation of a walking/bike trail from Mullum Mullum Creek through to Warrandyte (Linking People and Spaces, Parks Victoria 2002); and, 	Medium Long	D, A	EEP (PV)	Internal

Project Title	Action	Timing	Council Role	Responsibility	Resources
	<ul style="list-style-type: none"> ➤ Implement proposed horse trail network outlined in the Manningham Horse Riding Strategy 2002. 				
L-16 Indigenous Policy Implementation	<ul style="list-style-type: none"> • Continue to implement relevant Green Wedge actions from the Manningham Indigenous Policy 2009 – 2012 (June 2009), including: <ul style="list-style-type: none"> ➤ Acknowledgement of traditional ownership at public events; ➤ Compliance with the Aboriginal Heritage Act 2006; ➤ Mapping and study of areas of Cultural Sensitivity; and, ➤ Community education about Aboriginal land management practices. 	Ongoing	D, I, E	SCS, EEP	Internal

4.3 Sustainable Built Form and Infrastructure

Council is in a position to influence developers and stakeholders and use its planning power to ensure that sustainability principles are embedded into all new planning projects. There is opportunity to provide practical demonstration of sustainable places within the Manningham Green Wedge, managed according to ecologically sustainable design principles. The strategic focus on creating sustainable places can encourage sustainable energy efficient housing and businesses that reduce carbon emissions and water usage. Building resilience at a local level is regarded as a highly effective risk management response to the climate change and peak oil challenges confronting current and future generations. For the Green Wedge this is especially important in the areas of resilient communities, sustainable transport, water, waste, energy efficiency and developing with Ecologically Sustainable Development principles.

Project Title	Action	Timing	Council Role	Responsibility	Resources
4.3.1 Resilient Communities					
S-1 Residential Strategy	<ul style="list-style-type: none"> Ensure the Manningham Residential Strategy 2002 Review provides opportunities to “Age-in-place” within the Green Wedge community, with improved sustainable housing diversity and urban design to allow community members to remain living in the community of their choice as they age. 	Short Medium Long	D, I	EEP	Internal
S-2 Community Planning and Development	<ul style="list-style-type: none"> Ensure all community planning and development in the Green Wedge provides for adequate access to community services and facilities for all residents. Ensure that implementation of key community plans: Municipal Health Plan, Ageing well in Manningham, Heat Wave Strategy, Affordable Housing (currently being finalised) and Know Your Neighbour have a focus in the Green Wedge and consider the specific constraints and opportunities of the area. 	Short Medium Long	D, I, A	EEP, SCS, ADS	Internal
S-3 Integrated Transport Strategy	<ul style="list-style-type: none"> Implement the recommendation of Council’s ‘Bus Service Review 2008’ and the “Integrated Transport Strategy” (2009) to improve public transport accessibility within the Green Wedge areas of the municipality, particularly the Township of Warrandyte, and continue to advocate for improved public transport access to Wonga Park. Ensure current review of the Road Safety Strategy 2005 has a focus on issues specific to the Green Wedge. 	Short Medium Long	D, I, A	ETS, EEP	Internal
S-4 Roadside Management Strategy	<ul style="list-style-type: none"> Review the Roadside Management Strategy (2004) and Handbook (April 2005) and develop processes for roadside vegetation protection where road, equestrian, cyclist and pedestrian pathway works are required including the Jumping Creek Road project. 	Short	D, I, A	EEP, EO	Internal
S-5 Community Car Pooling Program	<ul style="list-style-type: none"> Investigate Council’s role in facilitating a community car pooling program. 	Short Medium	A, D, I	GOGO	Internal

Project Title	Action	Timing	Council Role	Responsibility	Resources
4.3.2 Water					
S-6 Domestic Waste Management Plan S-7 Strategic Water Management Plan S-8 Storm Water Management Plan	<p>Continue to implement Manningham’s key water management strategies including; the Domestic Waste Water Management Plan (2007); the Water15 Sustainable Water Management Plan (2005); and the 10% best practice target by 2020 for the Storm Water Management Plan with the following recommendations:</p> <ul style="list-style-type: none"> • Developing a tool for tracking and reporting progress toward targets; • Developing a number of policy reforms and innovations to allow better management of stormwater quality within the private realm; • Consideration of stormwater harvesting opportunities for Council parks, reserves, roadsides, carparks, private business and agricultural operations; • Implementation of routine stormwater management to provide passive watering for streetscapes identifying further opportunities for water sensitive urban design and stormwater harvesting through Council’s capital works; • In catchment areas where there are currently low levels of impact from excess stormwater flow on stream health adopt policies to control future development to ensure no additional negative impact; • Develop strategies to encourage broader scale adoption of stormwater harvesting within the community. This could be in the form of information, planning requirements or incentive schemes; • Encourage the connection to newly serviced backlog areas; • Monitor the impact of the sewerage backlog program on waterway health; • Continued management of sillage and septic tank inspections; and, • In targeted areas there should be the exploration of opportunities to provide long-term stormwater treatments which have short term potential to improve the quality of runoff impacted by greywater discharge. 	Short Medium Long	D, I, A	EO, HLL, PRS	Internal
S-9 Water Sensitive Urban Design	<ul style="list-style-type: none"> • Continue to implement and improve low impact development practices that are already beneficial to improving water quality outcomes, eg. swale drains, low impact road design. • Investigate innovative approaches and funding options to implement water sensitive urban design on private land in partnership with the community such as the “Little Stringybark Creek Project” including: rain water tanks, rainwater gardens, soft engineering practices and successful community engagement. 	Short Medium Long	D, I, E	EO, EEP	Internal & external grants

Project Title	Action	Timing	Council Role	Responsibility	Resources	
4.3.3 Waste						
S-10	Manningham Waste Management Strategy	<ul style="list-style-type: none"> Implement the Manningham Waste Management Strategy (2006) and Waste Management Education and Marketing Plan (2008), including encouragement of Green Wedge land owners to compost their large volumes of green waste. 	Short Medium Long	D, E	WM	Internal & external grants
4.3.4 Ecologically Sustainable Development (ESD)						
S-11	ESD Leadership	<ul style="list-style-type: none"> Continue to advocate for and ensure new and refurbishment developments demonstrate best practice ESD outcomes through the: <ul style="list-style-type: none"> ➤ Application of the findings from the Accelerating Sustainable Building (ASB) in Local Government Project to Green Wedge Council buildings, capital works and developments; ➤ Implementation of the Sustainable Design Assessment in the Planning Process (SDAPP) Trial for major developments including the “Sustainable Tools for Environmental Performance Strategy” (STEPS) and the “Sustainable Design Scorecard” (SDS) tool for non-residential development; ➤ Establishment of ecologically sustainable community infrastructure as ESD demonstration sites or “hubs” in the Green Wedge; ➤ Development and use of Council’s EcoFootprint/Eco-Tracker systems and tools to reduce council’s energy footprint and reduce carbon emissions; ➤ Increase of energy efficient design, renewable energy usage (e.g. solar power) and more energy efficient appliances for all Council infrastructure; and ➤ Implementation and expansion of council’s lightweight pavement program. 	Short Medium Long	D, I	EO, EEP, SP, CB, ETS	Internal
4.3.5 Telecommunication Towers						
S-12	Tele - communication Towers Code of Practice	<ul style="list-style-type: none"> Liaise with the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) about community concerns regarding the health risks from electromagnetic radiation associated with telecommunication towers in the Green Wedge. 	Medium	A	EEP, SCS	Internal

4.4 Planning Policy and Governance

Looking after the Green Wedge is a whole of Council responsibility. The task of day-to-day operations requires good systems, tools, measurement, skills and culture to ensure that Council's responsibilities for the Green Wedge are achieved. Sound planning policy requires the people, the skills and the tools to deliver strong performance and provide open and transparent reporting.

There is an ongoing task to refine planning and operational processes within Council to ensure that all services are delivered to the highest standards for environmental, economic and social sustainability. Sound planning policy also relies on Council having a sound understanding of the needs and expectations of all parts of our community, government agencies and other stakeholders. Each of these groups provides valuable input into the way we govern and design and operate our services.

Project Title	Action	Timing	Priority	Responsibility	Resources
4.4.1 Land-Use Controls					
P-1 State Government Advocacy	<ul style="list-style-type: none"> Advocate to State Government to ensure support of Council decisions in regard to "prohibited" and inappropriate development in the Rural Conservation Zone in Manningham. 	Short Medium	A	EEP	Internal
	<ul style="list-style-type: none"> Advocate for guidance and certainty from the State Government as to how Net Gain should be implemented and achieved through the Planning Scheme at a local level. 	Short	A	EEP, (DSE)	Internal
P-2 Planning Controls Review	<ul style="list-style-type: none"> Review Planning controls to ensure; land holders right to farm, to provide agricultural businesses with a transition out of current farming practices to allow other land uses and opportunities; to determine the limits and ability of the planning scheme and local law to set standards for sustainable land management, specifically in relation to animal stocking rates and grazing of native vegetation and that restrict agricultural practices, economic development and tourism opportunities. Also refer to L-9. 	Short Medium Long	D, I	EEP, SP	Internal
P-3 Review Wildfire Management Overlay	<ul style="list-style-type: none"> Review Manningham's application of the Wildfire Management Overlay (WMO) and associated policies; ensure appropriate Council plans, procedures and resources are in place to provide for fire prevention, preparation, response and recovery. 	Short Medium Long	D	EEP, SP, EO, HLL	Internal
P-4 Planning Scheme Amendment C54	<ul style="list-style-type: none"> Continue to progress the implementation of Planning Scheme Amendment C54, which aims to reduce red tape for developments, simplify planning scheme controls and improve protection of environmental and landscape assets in Manningham on public and private land. 	Short	D, E	EEP, SP	Internal

Project Title	Action	Timing	Priority	Responsibility	Resources
P-5 Development Guide for Areas of Environmental and Landscape Significance	<ul style="list-style-type: none"> Finalise and distribute user-friendly “Development Guide for Areas of Environmental and Landscape significance” to ensure support for Planning Scheme controls. 	Short ongoing	D, E	EEP, SP	Internal
P-6 Planning Permits	<ul style="list-style-type: none"> Ensure appropriate Net Gain information and support is provided to planning permit applicants to avoid delay and uncertainty in the planning process. 	ongoing	D, E	EEP, SP	Internal
P-7 Environmental Enforcement	<ul style="list-style-type: none"> Target environmental enforcement to ensure adequate resources to follow up on planning permit requirements to protect or restore native vegetation. 	ongoing	D, E	SP	Internal
P-8 Earthworks Policy	<ul style="list-style-type: none"> Investigate development of Earthworks Local Planning Policy to control impacts of earthworks. 	Short	D, I	EEP, SP	Internal
P-9 Cultural Heritage Management Plans	<ul style="list-style-type: none"> Ensure Cultural Heritage Management Plans (CHMPs) are produced as part of the Planning Permit process on public land as required in areas of cultural heritage sensitivity under the Aboriginal Heritage Regulations 2007 and the Aboriginal Heritage Act 2006. 	Short Medium Long	D	EEP, SP, SP, ETS	Internal
P-10 Storm Water Management Plan Review	<ul style="list-style-type: none"> Ensure the Storm Water Management Plan review incorporates the development of Council processes, specifications and policies to guarantee water sensitive urban design and biodiversity protection measures are assured for all future road construction, building developments and capital works projects. 	Short	D	EO, ETS, EEP	Internal
4.4.2 Partnerships with Neighbours and State Agencies					
P-11 Landcare Advocacy	<ul style="list-style-type: none"> Advocate for State Government funding to support Manningham’s Landcare network. Also refer to E 12. 	Short Medium	A	EEP	Internal
P-12 Farming Advocacy	<ul style="list-style-type: none"> Advocate to the State Government to assist farmers with sustainable farming and right to farm issues in the Green Wedge. Also refer to L 9. 	Short Medium	A	EEP	Internal
P-13 Inter-agency Planning and Co-	<ul style="list-style-type: none"> Work collaboratively with other local Councils and agencies to support each other 	Short	D, E	EEP, HLL	Internal &

Project Title	Action	Timing	Priority	Responsibility	Resources
ordination	and encourage a consistent approach to the management of Net Gain, biodiversity, open space, wildfire, pest plants and animals, environmental research, community education, land care and Green Wedges.	Medium Long			external grants
P-14 Middle Yarra Land Managers	<ul style="list-style-type: none"> Continue to attend and participate in the Middle Yarra Land Managers meetings, with field officers from Manningham City Council, Nillumbik Shire Council, Banyule City Council, Whittlesea Shire Council, Parks Victoria, Melbourne Water and the Department of Primary Industries. 	Ongoing	D, E	EEP	Internal
P-15 Regional Water Sensitive Design Group	<ul style="list-style-type: none"> Establish Regional Water Sensitive Urban Design Group with local Councils and relevant industry and agency partners to develop new and innovative practices and standards that maintains the semi-rural character and environmental values of the Green Wedge. 	Short	D, I	EO, (Partners - Local Councils, MW, Industry)	Internal
P-16 Green Wedge Regional Alliance	<ul style="list-style-type: none"> Establish a Regional Alliance for integrating biodiversity conservation, agriculture and fire management in urban and peri-urban municipalities as stated in the Manningham Environmental Sustainability Priority Statement 2010. 	Short	D	EEP	Internal
P-17 Council Planning and Co-ordination	<ul style="list-style-type: none"> Establish a cross Council working group to provide a focus for the delivery of the Green Wedge Action Plan, including: profiling best practice and innovation; integrated and coordinated environmental management across private, public and Council managed lands; and, ensuring all major Council strategies consider the Green Wedge and deliver appropriate responses and actions to Green Wedge issues. Ensure Council's Environmental Sustainability Advisory Committee (ESAC) is kept informed of the Green Wedge Action Plan progress and provides proactive support for key Green Wedge actions, especially those related to advocacy activities. 	Short Medium Long	A	EEP, SP, SCS, HLL, EO, ETS, PRS, CPE, MC, WM, ESAC.	Internal
4.4.3 Council Capacity Building					
P-18 Council performance measures	<ul style="list-style-type: none"> Ensure Council's community household panel surveys include questions that measures Council's performance regarding Green Wedge issues. 	Short Medium Long	D	CPE, EEP	Internal
P-19 Green Office Green Organisation	<ul style="list-style-type: none"> Explore opportunities to educate or train staff about Green Wedge issues through the successful "Manningham Green Office Green Organisation" (GOGO) program. 	Short Medium	E	GOGO.	Internal

Project Title	Action	Timing	Priority	Responsibility	Resources
Program		Long			
P-20 Staff Training	<ul style="list-style-type: none"> Provide adequate resourcing, training and information to ensure Net Gain and its requirements are properly understood, applied, recorded and monitored by all relevant Council officers. 	Ongoing	D, E	EEP, SP, OD	Internal
	<ul style="list-style-type: none"> Continue staff training programs in relation to Green Wedge and sustainable land management and community capacity building. 	Ongoing	D, E	EEP, SP, OD	Internal
	<ul style="list-style-type: none"> Build Council staff capacity to deliver environmentally appropriate infrastructure including: buildings; facilities; and, water sensitive urban designed roads, car parks and drains. 	Ongoing	D, E	EO, ETS, PRS EEP, OD	Internal
P-21 Contractor Training	<ul style="list-style-type: none"> Ensure Council contracts include best practice environmental management specifications and that contractors are appropriately trained and supervised to minimise impact on natural environmental values during operations. 	Short Medium Long	D, I	EEP, EO, ETS, PRS	Internal
P-22 Integrated Environmental Database	<ul style="list-style-type: none"> Develop an integrated environmental database with Council's GIS, Planning and Property databases and systems. 	Short Medium	D, I	EEP, GIS, PVS, HLL	Internal
P-23 Systems Standardisation	<ul style="list-style-type: none"> Develop a standard technique for mapping, recording and monitoring across the municipality: <ul style="list-style-type: none"> ➤ Weed species, extent and level of infestation; ➤ Threatened and other significant species of flora and fauna; and, ➤ Pest animals. 	Short Medium	D, I	EEP, GIS, HLL	Internal
P-24 Research and Monitoring	<ul style="list-style-type: none"> Improve Council's understanding of local ecological health by identifying funding sources and opportunities for ecological monitoring and research. Also refer E 2. 	Short Medium	I, D	EEP	External grants
	<ul style="list-style-type: none"> Build internal capacity to continue monitoring vegetation quality and quantity. 	Ongoing	D	EEP, CPE	Internal

Part B – Support Material

5 Monitoring, Evaluation and Reporting

5.1 Monitoring and Reviewing Progress

Indicators provide the means by which we monitor progress towards our targets and vision. Three types of indicators are used to monitor progress:

State of the Environment Indicators – that measure the overall health of waterways, biodiversity and land

Community Engagement Indicators – that allows broad measurement of the involvement of individual landholders and businesses and community groups to the achievement of our targets

Council Practices Indicators – that allows measurement of the contribution of Council's own actions to Green Wedge improvement

Monitoring requires the establishment of targets (refer to table below) and baseline data to measure progress against. The targets identified include: State of Environment, Community Engagement and Council Practice Indicators.

Baseline data is readily available for a number of indicators. On some measures data on environmental parameters that can be clearly identified as belonging to the Green Wedge is more difficult to collect. Where this is the case, Council will extrapolate data from elsewhere or establish its own baseline and data collection where resources allow Council to do so.

It is also important to note that trends on particular indicators may take a number of years to establish and other targets will be measured once in 2020, however Council will be able to report on overall progress towards most of its targets and vision on an annual basis.

Table 1. Targets for 2020 with frequency measured and list of Monitoring Organisation

2020 TARGETS	FREQUENCY MEASURED	MONITORING ORGANATION
Maintain or reduce Biological Oxygen Demand (BOD) in Green Wedge waterways at 20mg/L	Quarterly	Council (HLL)
Maintain or reduce Total Suspended Solids (TSS) in Green Wedge waterways at 30 mg/L	Quarterly	Council (HLL)
Maintain or reduce of Ecoli in Green Wedge waterways <200 colony fecal units (cfu) per 100mL	Quarterly	Council (HLL)
Completion of Yarra Valley Water sewerage backlog program for targeted (Warrandyte & Park Orchards) Green Wedge properties by June 2016.	In 2016	Yarra Valley Water (YVW)
100% of qualifying properties will connect to sewerage within 3 years of installation or inline with any amended code of practice.	3 yrs after installation	YVW & Council
50% reduction of mains water consumption in Council operations below 2005 baseline data by 2020	In 2020	Council
The number of days that the Yarra River is classified unsuitable for swimming reduced to zero by 2020.	In 2020	Melbourne Water
Maintain or improve the total extent and quality of native vegetation. <i>(Measurement of Council's aerial photograph interpretation and monitoring plots every 5 years).</i>	Every 5 years	Manningham Council
Council to facilitate a minimum of 10 rabbit action groups to deliver integrated rabbit control programs in or adjoining the Green	Annually	Council

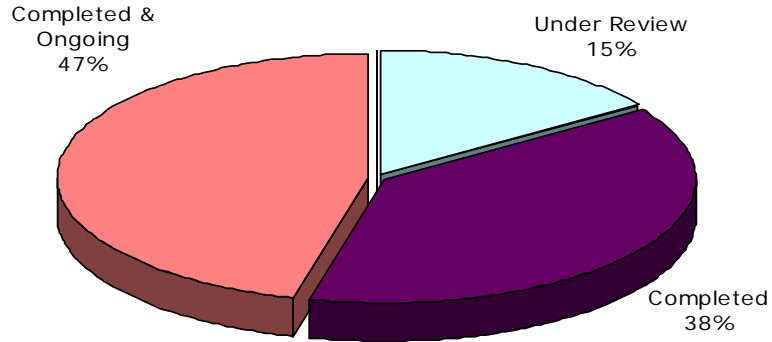
2020 TARGETS	FREQUENCY MEASURED	MONITORING ORGANATION
Wedge per annum.		
3% expenditure of Council's capital works budget for Water Sensitive Urban Design projects in the Green Wedge per annum.	Annual Capital works reports	Council
100% of design and implementation of new road construction to include storm water treatment capable of achieving best practice water quality.	Annual Capital works reports	Council
100% of design and implementation of new Council building and facility construction to include storm water treatment capable of achieving best practice water quality.	Annual Capital works reports	Council
Maintain community Middle Yarra Landcare Network activity participation hours at 2600 hours (based on 2008/09 figures).	Annually	Landcare Facilitator
Maintain 110 successful Local Environment Assistance Fund (LEAF) claims per annum (based on 2009/10 figures).	Annually	Council
A minimum of 10 Manningham residents to complete the Property Management Planning Course per annum.	Annually	Council
65% diversion of waste from landfill from Manningham residents and businesses to align with state wide govt targets by 2020.	Annually	Council
15% of cars to be green electric by 2020 (Climate 2020).	Every 5 years	Victoria Roads
20% Green House Gas reductions by 2020 (Climate 2020).	In 2020	ABS Data
20% decarbonise energy supply (Green Power) by 2020 (Climate 2020).	In 2020	Greenpower - Sustainability Victoria
Ongoing improvement from "Your Voice" Household Panel survey results for environmental outcomes of Council.	Annually	Council

5.2 Communication and Reporting

The Green Wedge Action Plan provides for rich and ongoing communication and transparent reporting to the Manningham community and stakeholders. Annual reporting to the Council and community will continue, with monitoring and target data updates.

Appendices

1. Green Wedge Strategy 2004 Key Achievements



The graph above demonstrates the progress status of the Green Wedge Strategy 2004, highlighting that 85% of the 213 recommendations have been completed with 47% of these recommendations continuing as ongoing programs and services to the community. The graph also shows that 15% of the recommendations were not completed and have been reviewed as part of the development of this Action Plan.

Also refer to Green Wedge Strategy Annual Progress reports prepared:

- January 2005 – June 2006
- July 2006 – June 2007
- July 2007 – June 2008
- July 2008 – June 2009
- Green Wedge Issues Paper 2010

Below is a summary of some of the key achievements of the Green Wedge Strategy 2004:

- \$280,000 was received in external grants for biodiversity protection and the delivery of community engagement programs;
- 1st Green Wedge Strategy produced in Victoria;
- Created 3 new Council staff positions: Environmental enforcement officer, Community Environmental Education Officer and a Conservation Officer position;
- Implementation of Sites of Biological Significance Study;
- Support for the Sewer Backlog Program;
- Locally Threatened Flora and Fauna Study and Wildlife Corridor Study;
- Expanding Environmental Community Engagement Program;
- Formation of Landcare Groups and the Middle Yarra Landcare Network;
- Increase in Environmental Enforcement in Planning;
- Sustainable Horse and Pasture Management courses;
- Review of Overlays and Planning Policy – Amendment C54;
- Draft Bushland Management Action Plan; and,
- Green Wedge Schools Program.

2. Summary of Community Consultation

The Green Wedge Issues Paper 2020 was produced and made available for public comment on the Manningham website for the months of April and May 2010. The Issues Paper was also advertised in Manningham Matters, Manningham Leader, Warrandyte Diary and posted or emailed to major stakeholder groups. Manningham Council then facilitated eight stakeholder workshops involving a total of approximately 100 people.

These stakeholder workshops included the following groups: Environment and Friends Groups; Government Agencies; Green Wedge Rate Payer Associations and Park Orchards Progress Association; Commercial Farmers; Warrandyte Business Associations; Green Wedge Schools; Councillors and Council Staff. A total of seventeen written submissions were received during this consultation period.

The stakeholder feedback was for strong community, agency and Council support for the long term protection of the Manningham Green Wedge values. However, some landholders reported difficulties in maintaining Green Wedge values and found meeting some of the Green Wedge Strategy 2004 objectives impossible. It was also reported in most workshops that there is a lack of leadership from Council and that Council needs to “Lead by example” with a consistent message and delivery of outcomes. This Green Wedge Action Plan 2020 is an attempt to address issues raised with meaningful actions.

The public exhibition of the Draft Green Wedge Action Plan 2020 was also part of the Community and Stakeholder consultation process receiving further community feedback.

3. List of Relevant Documents

Federal Context:

- Australian Health Standard - Radio communications (Electromagnetic Radiation — Human Exposure) Amendment Standard 2007 (No. 1)
- Environmental Protection and Biodiversity Conservation Act 1999.

State Context:

- 2009 Bushfire Royal Commission – Final Report 2010.
- Catchment and Land Protection Act 1994.
- Country Fire Authority Act 1958.
- Crown Land (Reserves) Act 1978.
- Environmental Protection Act 1970.
- Forest Act 1958.
- Flora and Fauna Guarantee Act 1988.
- Land Act 1958.
- Local Government Act 1989.
- Melbourne 2030 – Planning for Sustainable Growth.
- Securing Our Natural Future – A white paper for land and biodiversity at a time of climate change.
- State Planning Policy Framework (SPPF).
- Planning and Environment Act 1987.
- Victorian Government - Invasive Plants and Animals Policy Framework, 2010.

- Victorian Local Sustainability Accord – Manningham’s Environmental Sustainability Priority Statement, 2007.
- Victoria’s Native Vegetation Management – A Framework For Action (Net Gain) 2002.

Regional Context:

- Parks Victoria - Linking People and Spaces 2002.
- Port Phillip and Westernport Regional River Health Strategy 2007.
- Regional Catchment Management Strategy 2004 - 2009.

Local Context:

- ‘Active for Life’ Manningham Recreation Strategy 2010-2025.
- Ageing Well in Manningham 2006-2010.
- Bicycle Strategy 2006.
- Climate 2020, August 2009.
- Community Emergency Risk Management Plan 2009.
- Domestic Waste Water Management Plan 2007.
- Heat Wave Strategy 2010.
- Horse Riding Strategy 2002.
- Local Planning Policy Framework (LPPF) including the Municipal Strategic Statement (MSS).
- Manningham Council Plan 2009 - 2013.
- Manningham Environmental Sustainability Priority Statement 2010.
- Manningham Indigenous Policy and Action Plan 2009-2012.
- Manningham Green Wedge Land Capability Study 2004.
- Manningham Local Activity Centres Plan 2007.
- Manningham Residential Strategy 2002.
- Manningham Storm Water Targets Report 2009.
- Manningham Strategic Water Management Plan 2009.
- Manningham Tourism Strategic Plan 2007.
- Manningham Waste Management Strategy 2006.
- Manningham’s Environmental Sustainability Priority Statement 2010.
- Municipal Emergency Management Plan 2010.
- Municipal Fire Prevention Plan 2010.
- Municipal Public Health Plan 2009 – 2013.
- Public Open Space Strategy 2004.
- Road Safety Strategy 2009.
- Roadside Environmental Management Strategy 2004 and Handbook, 2005.
- Waste Management and Education Plan 2008.
- Water 15 – Sustainable Water Management Plan 2005-2015.
- Wildlife Movement and Habitat Needs in Manningham 2006.

4. References

Agriculture Victoria Services (2004), "*The Manningham Green Wedge Land Capability Study.*", Werribee, Victoria.

Lorimer. G., (2006), "Wildlife Movement and Habitat Needs in Manningham.", Melbourne Victoria.

Manningham City Council – Economic and Environmental Planning Unit (2003), "*Land Management Guide*", Doncaster, Victoria.

Manningham City Council – Economic and Environmental Planning Unit (2009), "*Native Splendour (2nd Edition) – A gardening guide to Manningham's local plants*", Doncaster, Victoria.

Manningham Council (2004), "*Sustainable Living Guide – Tips that don't cost the earth*", Doncaster, Victoria.

Manningham City Council – Economic and Environmental Planning Unit (2006), "*Weeds*", Doncaster, Victoria.

Melbourne Water (2007), "*Port Phillip and Westernport Regional River Health Strategy*", Melbourne, Victoria.

Parks Victoria (2002), "*Linking People and Spaces.*", Melbourne, Victoria.

RMIT University (2008), "*Planning Sustainable Futures for Melbourne's Peri-Urban Regional – Summary Report*", Melbourne, Victoria.

Research Planning Design Group (2002), "*Manningham Non-Urban Areas Review*", Bendigo, Victoria.

Royal Commission – 2009 Victorian Bushfires (2010), "*Fire Preparation, Response and Recovery – Final Report*", Melbourne, Victoria.

Victorian Government, Department of Infrastructure (2002) "*Melbourne 2030*", Melbourne Victoria.

Victorian Government, Department of Planning and Community Development (2009), "*Future Farms: Providing for Victoria's future Rural Land Use – Discussion Paper.*" Melbourne Victoria.

Victorian Government, Department of Premier and Cabinet (2010) "Taking Action for Victoria's Future, Climate Change White Paper – The Implementation Plan", Melbourne, Victoria.

Victorian Government, Department of Primary Industries (2008), "*Square Pegs in Green Wedges? Landholders and Natural Resource Management in Melbourne's Rural Hinterland – Summary Report*", Melbourne, Victoria.

Victorian Government, Department of Sustainability and Environment (2009), "*Securing Our Natural Future – A white paper for land and biodiversity at a time of climate change.*" Melbourne Victoria.

Victorian Government, Department of Sustainability and Environment (2010), "*Community Landcare: a key player in building social-ecological resilience networks - Discussion Paper.*" Melbourne 2010.

Victorian Government, Department of Sustainability and Environment (2002), "Victoria's Native Vegetation Management – A Framework For Action", Melbourne, Victoria.

Victorian Government, Parliament, Outer Suburban Interface Committee (2010), "*Inquiry into sustainable development of Agribusiness in outer suburban Melbourne*", Melbourne, Victoria.