

21.02 ENVIRONMENT17/03/2016
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This Clause provides local content to support Clause 11 (Settlement), 12 (Environmental and Landscape Values), Clause 13 (Environmental Risk), Clause 14 (Natural Resource Management) and Clause 15 (Built Environment and Heritage) of the State Planning Policy Framework.

21.02-1 Catchment and coastal management14/06/2012
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This section provides local content to support 13.01 (Climate change impacts), Clause 13.02 (Floodplains), Clause 13.03 (Soil degradation) and Clause 14.02 (Water) of the State Planning Policy Framework.

Overview

The majority of the Cardinia Shire is contained in the Western Port catchment, which is a RAMSAR wetland, with a small section in the northern part of the municipality being within the Yarra catchment. The Port Phillip and Western Port Regional Catchment Strategy (2004-2009) describes the catchment assets and how they are interrelated. It indicates what needs to be done to manage and use the assets in a sustainable and integrated way, and outlines goals and priorities for the future.

Key issues

- Recognising that a catchment is an integrated environmental system, and that development and actions undertaken in one part of the catchment have an effect on other parts of the catchment.
- Retaining and re-establishing native vegetation along waterways to minimise erosion and sediment.
- Managing stormwater and effluent in both urban and rural areas.
- Recognising that areas within the municipality have a shallow groundwater table, which increases the potential for salinity and its impacts on infrastructure and the environment.
- Controlling the amount of water entering the groundwater table in recharge areas in order to manage salinity.

Objective 1

To protect and improve the environmental health and social and economic values of water resources and ensure their efficient management.

Strategies

- Encourage the retention and, where appropriate, the re-establishment of native vegetation to minimise erosion and sediment entering waterways, reduce salinity and protect areas of landscape and biodiversity value.
- Encourage the protection of waterway environs including the fencing off of waterways and the re-establishment of riparian vegetation, especially in rural areas degraded by the impact of stock.
- Encourage the maintenance and upgrade of levee banks in the Koo Wee Rup Flood Protection District, particularly along the Bunyip Main Drain.

- Protect groundwater resources in the Western Port Basin.
- Protect Western Port and the associated significant estuarine, intertidal and immediate marine habitat of Western Port and promote sustainable outcomes.
- Minimise erosion and the entry of sediment into waterways associated with earthworks.

Objective 2

To effectively manage development to mitigate impacts on the operation and health of waterway systems.

Strategies

- Encourage the use of measures to manage and treat stormwater quality in both urban and rural areas including wetlands, litter and pollution traps, retarding basins and revegetation along waterways.
- Provide for the retention and treatment of domestic wastewater on-site in accordance with the State Environment Protection Policy (Waters of Victoria) where reticulated sewerage is not available.
- Maximise the potential to utilise recycled wastewater for agricultural, urban and other purposes.
- Require best practice water sensitive urban design and improvements in drainage in all new developments.

Objective 3

To minimise the impact of shallow groundwater conditions and salinity on the built and natural environment, including both native vegetation and agricultural land, and to ensure that development does not contribute to increasing the risk or extent of salinity.

Strategies

- Ensure any development in an identified shallow ground water or potential salinity risk area is subject to a risk assessment which identifies appropriate mitigation measures.
- Discourage development that will be at risk from salinity or that will potentially increase the risk or extent of impacts from salinity.

Objective 4

To recognise areas within the municipality that are liable to flooding and inundation and to minimise potential risk to life, property and the environment.

Strategies

- Minimise development on land liable to flooding and inundation, and where development is permitted, ensure that the siting of buildings and works takes into account the potential depth of flooding, the route of major floodways, and the impact on the operation of the waterway system.

Implementation

The strategies in relation to catchment and coastal management will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use and development that may impact on the water catchment, waterways, ground water resources or the coast, considering, as appropriate:
- The use of appropriate buffer distances, which can include revegetation and water sensitive urban design, between the use or development and adjoining waterways to minimise erosion and entry of sediment into waterways.
- Reference documents listed in the State Planning Policy Framework at clauses 13.01 (Climate change impacts), Clause 13.02 (Floodplains), Clause 13.03 (Soil degradation) and Clause 14.02 (Water)

Application of zones and overlays

- Applying the Urban Floodway Zone over land identified by Melbourne Water as being of greatest risk and frequency of flooding.
- Applying a Floodway Overlay, Land Subject to Inundation Overlay or Special Building Overlay on land identified by Melbourne Water as being flood prone.
- Applying an Environmental Significance Overlay along the Western Port coastline.
- Applying an Environmental Significance Overlay in the northern hills area to address erosion, waterway management and vegetation protection issues.
- Applying the Erosion Management Overlay to areas where erosion is a significant risk.

Further strategic work

- Investigating the need for development provisions such as the application of the Salinity Management Overlay over land identified as being prone to salinity.

Reference documents

Planning Decision Support Framework for Salinity (2005)

Domestic Wastewater Management Plan (2007)

Waste Management Strategy 2004-2009

Environment Management Strategy 2004-2007

Cardinia Shire Council Stormwater Management Plan (2002)

Land Capability Study of the Cardinia Shire (1997)

Salinity – Land Capability Study 2004

Yarra Valley Water: Water Plan 2009/10-2012/13 (2008)

South East Water: Water Plan 2009/10-2012/13 (2008)

Any listed at clauses 13.01 (Climate change impacts), Clause 13.02 (Floodplains), Clause 13.03 (Soil degradation) and Clause 14.02 (Water) of the State Planning Policy Framework.

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Landscape

Overview

The diverse landscapes within the Cardinia Shire are one of the municipality’s strongest attributes. Five areas within the Cardinia Shire have been recognised as significant landscapes by the National Trust. These are the Western Port Coast, Heath Hill, Cockatoo Creek, Puffing Billy Corridor and Menzies Creek Valley.

Key issues

- Protecting significant landscapes, including the protection of the specific features of each landscape.
- Recognising that the landscape is an important element in the sustainable development of tourism in the municipality.
- Acknowledging that ridgelines are particularly vulnerable to inappropriate development.
- Recognising the pressures to develop land in locations of high scenic value.

Objective

To recognise and protect the diverse landscape and areas of significant landscape value.

Strategies

Landscape values

- Protect significant landscapes recognised by the National Trust including the Western Port Coast, Heath Hill, Cockatoo Creek and Menzies Creek Valley from development that is inconsistent with the landscape values and built form of the surrounds.
- Protect the scenic corridor of the Puffing Billy Tourist Railway from extensive native vegetation removal and development that is inconsistent with the landscape values of the existing corridor.
- Recognise the value of the landscape to the community and as a competitive strength for the sustained development of tourism in the municipality.
- Ensure that development in the urban growth area does not intrude or adversely impact on the landscape values of the area north of the Princes Highway and maintains significant vistas.
- Recognise the landscape values associated with rural land including areas south of the Princes Highway.
- Recognise the contribution of drains and bridges to the character of the rural landscape.

Design and built form

- Require the use of building materials and colours which are in context with the surrounding environment in areas of landscape significance and in rural residential and rural living areas.
- Ensure the sensitive siting of buildings and other structures having regard to the protection of prominent ridgelines, significant views and areas of remnant vegetation.
- Protect exotic vegetation if it is of heritage, cultural or economic value, or contributes to the character of an area.
- Minimise the fragmentation of land and removal of vegetation in areas of high landscape value.

Implementation

The strategies in relation to landscape will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use or development which may have a significant impact on places which are classified by the National Trust, considering as appropriate the comments of the National Trust.
- Requesting applications for development on land with a slope greater than 20% provide the following information as appropriate:
 - A slope stability report.

Application of zones and overlays

- Applying a Significant Landscape Overlay to protect significant landscapes recognised by the National Trust and progressively over other identified significant landscapes and ridgelines.
- Applying an Environmental Significance Overlay over the northern hills area and other sites of significance to protect landscape and environmental values.
- Applying a Vegetation Protection Overlay to hills areas where vegetation is a significant factor in the landscape character.

Further strategic work

- Investigating the need to identify significant landscape areas other than those recognised by the National Trust, including significant ridgeline areas.
- Developing a local policy for building, siting and design guidelines for non-urban and low density residential areas.

Reference documents

Environment Management Strategy 2004-2007

Puffing Billy Corridor Landscape Evaluation Study (1992)

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Biodiversity

This section provides local content to support Clause 12.01 (Biodiversity) of the State Planning Policy Framework.

Overview

Cardinia Shire contains a diverse environment with a wide range of native flora and fauna habitats. The municipality is known to contain State and Nationally significant rare and threatened species including the Southern Brown Bandicoot, Growling Grass Frog, Swamp Skink, Masked Owl, Helmeted Honeyeater, Powerful Owl, Emerald Star Bush, Matted Flax-Lily and indigenous grasslands, dwarf galaxias and Australian grayling.

The decline and fragmentation of habitats resulting in the loss of biodiversity is a key issue. Over 75% of the native vegetation in Cardinia Shire has been cleared leaving those areas of remnant vegetation of particular significance and value in terms of maintaining biodiversity within the Municipality.

Cardinia Shire forms part of the UNESCO Mornington Peninsula and Westernport Biosphere Reserve, protection of this biosphere relies on good environmental management of the catchment of which Cardinia shire is a key part.

Key issues

- Recognising that native vegetation provides habitat for key fauna species and provides for diverse flora species throughout the municipality.
- Maintaining biodiversity especially in areas of significance.
- Maintaining and re-establishing wildlife corridors.
- Recognising that soil erosion occurs on steep land where there are dispersible soils and in areas prone to landslips as a result of native vegetation removal.
- Controlling the spread and extent of pest plants and animal within the municipality.

Objective 1

To achieve a net gain in the quantity and quality of native vegetation in the municipality.

Strategies

- Encourage the retention and re-establishment of native vegetation to protect areas of habitat and landscape value, minimise erosion, reduce sediment entering waterways and Western Port, reduce the potential for flooding on the Koo Wee Rup Swamp, and to reduce the potential for salinity.
- Protect areas of significant remnant vegetation (particularly endangered and vulnerable Ecological Vegetation Classes) as shown on the mapped Ecological Vegetation Classes provided by the Department of Sustainability and Environment.
- Ensure that the siting of buildings and works avoids and minimises the removal or fragmentation of native vegetation, especially in areas of biodiversity significance, and where appropriate, building envelopes should be approved as part of subdivision plans to minimise the removal of vegetation.
- Require the replanting of indigenous vegetation where earthworks have been undertaken, particularly on steeply sloping land, on land subject to erosion, or in close proximity to a watercourse to manage and reduce sediment generation.

Objective 2

To maintain and enhance the diversity of indigenous habitats and species.

Strategies

Areas of biodiversity significance

- Avoid the fragmentation of land in areas of biodiversity significance and create new habitat corridors/biolinks.
- Encourage or, if appropriate, require landowners to undertake steps to conserve and enhance sites of biodiversity significance through a Conservation Covenant, or agreements under Section 173 of the *Planning and Environment Act 1987*.
- Protect and enhance biodiversity within natural waterways and man-made drains and dams through subdivision design, development design and appropriate management.
- Protect and enhance the environmental and landscape values of the land including habitat of botanical and zoological significance.
- Ensure the identification, protection and linking of important biodiversity areas within the growth area through Precinct Structure Plans including the provision of Native Vegetation Precinct Plans and Biodiversity Management Plans where required.

Threatened species

- Protect and enhance the habitat of threatened flora and fauna species, including the growling grass frog and southern brown bandicoot.

Objective 3

To reduce the spread and extent of pest plants and animals.

Strategies

- Encourage land management practices which control and remove noxious and environmental weeds.

Implementation

The strategies in relation to biodiversity will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use or development that may impact on biodiversity, considering, as appropriate:
 - Relevant Native Vegetation Precinct Plans
 - Relevant Conservation Management Plans
 - Reference documents listed in the State Planning Policy Framework at clause 12.01 (Biodiversity)
- When developing Precinct Structure Plans and Township Strategies, ensure biodiversity values and habitat corridors are identified.

Application of zones and overlays

- Applying a Rural Conservation Zone or a Public Conservation and Resource Zone in areas of high biodiversity value.
- Applying an Environmental Significance Overlay over the northern hills area, Western Port coastline and other specific sites of biodiversity significance.
- Applying a Design and Development Overlay and Vegetation Protection Overlay in low density areas and residential areas in the hills townships to ensure that vegetation and areas of habitat significance are protected, and taken into account in the design of new development.
- Applying an Erosion Management Overlay to areas identified with a high risk of landslip.
- Providing an exemption from the requirement for a permit for the removal of vegetation if the vegetation is classified as an environmental weed.

Further strategic work

- Developing Native Vegetation Precinct Structure Plans and Biodiversity Management Plans in the urban growth area.
- Reviewing the environmental weed list found in the Environmental Significance, Design and Development, and Vegetation Protection Overlays.
- Working with State agencies to remove native vegetation controls for environmental weeds, specifically *Pittosporum undulatum*.

- Identifying and mapping areas of significant flora, fauna or biodiversity value for potential inclusion into the Environmental Significance Overlay or Vegetation Protection Overlay.

Reference documents

Weed Management Strategy 2007

Targeted Survey and Conservation Management Plan for the Growling Grass Frog *Litoria reniformis*: Pakenham Urban Growth Corridor, Ecology Partners, 2006

Southern Brown Bandicoot Strategic Management Plan for the former Koo Wee Rup Swamp Area, Ecology Australia, 2009

Any listed at clause 12.01 (Biodiversity) of the State Planning Policy Framework

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Wildfire management

This section provides local content to support Clause 13.05 (Bushfire) of the State Planning Policy Framework.

Overview

Areas within the Cardinia Shire, particularly north of the Princes Highway, are prone to wildfires due to the topography and vegetation cover. During the Ash Wednesday fires of 1983, there was a significant loss of life and property in the Upper Beaconsfield and Cockatoo areas.

Wildfire risk is the product of a number of factors including fuel levels, slope, climatic conditions, population and the degree of preparation of individual property owners to cope with a fire. Other factors such as the accessibility of land to fire fighting vehicles and the availability of water will affect the risk levels for individual properties.

Key issues

- Ensuring the appropriate design of subdivisions in areas of high wildfire risk.
- Designing and siting of accommodation, including individual dwellings, on sites within areas of high wildfire risk. The key issues include the location and accessibility of the site, access to water supplies, the type and form of vegetation in the area including required vegetation management.
- Balancing the protection of native vegetation with wildfire risk management

Objective

To recognise that areas in the municipality are prone to wildfire and to minimise the potential risk to life, property and the environment.

Strategies

Subdivision

- Ensure that the siting and design of subdivisions has fully considered the impact of existing slope, aspect and vegetation in terms of risks of wildfire, particularly with regard to the location of building envelopes.

Siting and design

- Ensure that the siting and design of houses and other accommodation in high risk wildfire areas minimises the potential risk of loss of life or property from wildfire, particularly in terms of the existing slope, aspect and vegetation.
- Ensure all development has appropriately designed access for emergency vehicles.
- Ensure development provides adequate access to water.
- Encourage the use of roads as a buffer between housing and bushland.

Fuel reduction

- Encourage the use of controlled burning to reduce ground fuel levels and to help maintain healthy and diverse forests and woodlands consistent with the Ecological Vegetation Class (EVC).
- Support the implementation of the Municipal Fire Prevention Plan 2007 and Municipal Wildfire Preparedness Plan 2006.

Implementation

The strategies in relation to wildfire management will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use and development of land including subdivision, considering, as appropriate:
- Reference documents listed in the State Planning Policy Framework at Clause 13.05 (Bushfire)
- When developing Precinct Structure Plans and Township Strategies, considering the issue of wildfire risk.

Application of zones and overlays

- Applying the Bushfire Management Overlay to areas of wildfire risk.

Reference documents

Building in a Wildfire Management Overlay – Applicants Kit 2007 (Country Fire Authority)

Municipal Wildfire Preparedness Plan 2006

Any listed at clause 13.05 (Bushfire) of the State Planning Policy Framework

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Open space

This section provides local content to support Clause 11.03 (Open space) of the State Planning Policy Framework.

Overview

Cardinia Shire has a significant amount of regional open space, including Cardinia Reservoir Park (including Aura Vale Lake Park), Gembrook Regional Park, Bunyip State Park, and Emerald Lake Park. In addition, regional parklands are proposed along the Cardinia Creek for the protection of the environmental values of the corridor and the provision of a regional passive recreation resource in recognition of the projected population growth in the Casey-Cardinia Growth Area.

There are also other significant waterways and streams throughout the Municipality that provide passive open space linkages. The Pedestrian and Bicycle Strategy identifies primary, secondary and township path and trails network providing and improving access to key community and recreation facilities.

Key issues

- Providing open space to produce an attractive urban environment with a clear sense of place and identity and building a cohesive community.
- Providing active, passive and environmental open space within the urban growth area and townships to meet the needs of current and future communities and to protect environmental values.
- Developing open space linkages.
- Providing off road tracks and trails for walking and cycling.
- Developing and maintaining appropriate infrastructure for recreational horse riding.

Objective

To ensure that land is provided and developed for a range of open space functions to meet community needs for active and passive open space (including linkages) and for the protection of the environment.

Strategies

Open space contributions

- Ensure adequate active and passive open space is provided for communities and ensure that this is not constrained by environmental, drainage or other constraints.
- A minimum public open space contribution of 8% of the land to be subdivided must be provided as part of the subdivision of land for urban residential purposes.
- An 8% public open space contribution shall comprise land unencumbered by other constraints (eg: land required by Melbourne Water for drainage purposes, land within service easements) to allow its full use for recreation purposes.
- Any encumbered public open space should be provided in addition to the 8% unencumbered public open space contribution for recreation purposes.

Location and design

- Balance the recreational, environmental and wildfire management objectives of open space reserves.
- Recognise the importance of open space in contributing to an attractive urban environment with a clear sense of place and identity.
- Co-locate community and recreational facilities and encourage joint management of these facilities.
- Discourage the fragmentation of open space within new developments and subdivisions.
- Ensure that the design of open space is functional having regard to its intended use, minimises maintenance and ensures community and personal safety.
- Support the ongoing development of recreation reserves in the rural townships in the municipality as an important focus of recreational activities for the community.

- Support the progressive development of the Cardinia Creek Regional Parklands as a regional passive recreation resource and for the protection of the creek environs as outlined in the Cardinia Creek Parklands Future Direction Plan (2002).
- Recognise open space of high environmental value (e.g. Chambers Reserve, Mt Cannibal, and creek reserves) and ensure that the management of such open space protects and enhances the environmental values of the land.
- Develop open space corridors along major waterways which can be used for passive open space to improve water quality and act as wildlife corridors.
- Develop and maintain a network of off-road pedestrian, bicycle and equestrian trails within the municipality.

Implementation

The strategies in relation to open space will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use or development that relate to open space, considering, as appropriate:
- Reference documents listed in the State Planning Policy Framework at clause 11.03 (Open space)
- When developing Precinct Structure Plans and Township Strategies, considering the issue of open space.

Application of zones and overlays

- Including open space of high environmental value in a Public Conservation and Resource Zone.
- Including other public open space within the Public Park and Recreation Zone.
- Including land to be acquired for the Cardinia Creek Parklands in a Public Acquisition Overlay.
- Applying the Development Contributions Plan Overlay in areas within the urban growth area to fund the acquisition and development of district open space and linear open space along major waterways.

Other actions

- Providing a requirement for a minimum 8% unencumbered public open space contribution for the subdivision of land in urban residential areas into the schedule to Clause 52.01.

Further strategic work

- Integrating open space within all precinct structure plans within the urban growth area.
- Preparing detailed development contribution plans for areas within the urban growth area and integration within Precinct Structure Plans.

Reference documents

Equestrian Strategy (2001)

Cardinia Creek Parkland Future Direction Plan, Parks Victoria, 2002

Recreation Open Space Strategy 2000

Cardinia Growth Corridor Sports Strategy (2005)

Any listed at clause 11.03 (Open space) of the State Planning Policy Framework

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Post-contact heritage

This section provides local content to support Clause 15.03 (Heritage) of the State Planning Policy Framework.

Overview

The rich and diverse cultural heritage of Cardinia Shire illustrates the historic use, development and occupation of the land. This history is demonstrated by a wide range of heritage places that include buildings and structures, monuments, trees, landscapes and archaeological sites. These places give Cardinia a sense of historic continuity as well as demonstrating the economic, social and political circumstances of the time.

Key issues

- Protecting recognised sites and precincts of heritage significance with State, Regional and Local Significance.
- Defining the extent of heritage places to be included in a Heritage Overlay.
- Recognising and protecting significant trees.

Objective

To provide for the protection and appropriate management of sites of heritage significance.

Strategies

- Protect sites of State, regional and local heritage significance.
- Promote the conservation of sites of local heritage interest.
- Encourage and support the reuse of existing heritage places for appropriate land uses.
- Give consideration to the heritage context of sites which adjoin sites of heritage significance.
- Provide the opportunity for a permit to be granted for a use that might otherwise have been prohibited if that use will assist in the preservation of the heritage site.
- Recognise the significance of heritage buildings and sites in contributing to the character of townships within the municipality.
- Recognise and protect the cultural significance of war memorials and avenues of honour in the municipality.

Implementation

The strategies in relation to post-contact heritage will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use or development that may impact on sites of heritage or cultural significance, considering, as appropriate:
 - The development's response to the recognised heritage sites and precincts in the heritage place and precinct citations of the relevant Cardinia Heritage Studies.

- The relevant Conservation Management Guidelines in the Cardinia Local Heritage Study Review – Volume 3: Heritage Place & Precinct Citations (November 2008).
- The comments of the Returned Serviceman’s League (RSL) in relation to any proposal that may impact on a war memorial or avenue of honour in the municipality.
- The comments of the National Trust on any proposal which may have a significant impact on places classified by the National Trust.
- The objectives and strategies outlined in The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Heritage Significance (1999).
- When developing Precinct Structure Plans and Township Strategies, considering the issue of post-contact heritage.

Application of zones and overlays

- Applying a Heritage Overlay to protect sites of State, regional or local heritage significance.

Further strategic work

- Implementing the recommendations of the *Cardinia Local Heritage Study Review (November 2008)*, requiring the inclusion of additional heritage places and precincts within the municipality and incorporation of documents, including the review of the current schedule to the Heritage Overlay.
- Developing a ‘significant tree register’ to be incorporated into the planning scheme or used for other protective purposes.
- Developing and implementing a Cultural Heritage Strategy for the municipality.
- Developing Incorporated Plans to guide the management of individual heritage sites and precincts identified in the *Cardinia Local Heritage Study Review 2007* as appropriate, in accordance with Clause 43.01-2.

Reference documents

- Cardinia Shire (North) Heritage Study – Volume 1 Heritage Program (1996)
- Cardinia Shire (North) Heritage Study – Volume 2 Environmental History (1996)
- Cardinia Shire (North) Heritage Study – Volume 3 Heritage Places (1996)
- Cardinia Shire (Emerald & Cranbourne Districts) Heritage Study – Volume 1 Environmental History (1998)
- Cardinia Shire (Emerald & Cranbourne Districts) Heritage Study – Volume 2 Heritage Places (1998)
- Cardinia Local Heritage Study Review – Volume 1: Executive Summary (May 2013) (Sept 2015)
- Cardinia Local Heritage Study Review – Volume 2: Key Findings & Recommendations (May 2013) (Sept 2015)
- Cardinia Local Heritage Study Review – Volume 3: Heritage Place and Precinct Citations (November 2013) (Sept 2015)
- The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Heritage Significance (1999)
- Cardinia Shire Council, Significant Tree Study, 2009
- Old Emerald Bakehouse – 1 Kilvington Drive (rear), Emerald (December 2012)
- Cardinia Shire Council Significant Tree Study – Volume 1 (May 2009)

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This section provides local content to support Clause 15.03 (Heritage) of the State Planning Policy Framework.

Overview

The Cardinia Shire Council acknowledges that the municipality contains Aboriginal heritage sites and places of cultural significance, some of which have been identified and formally recorded but many have not. All Aboriginal heritage sites, whether formally registered or not, are protected under the *Aboriginal Heritage Act 2006*. Aboriginal heritage sites and places are highly valued by traditional and contemporary Aboriginal groups and should also be valued by the broader Australian community. The Cardinia Shire Council wishes to promote best heritage practices by ensuring heritage sites and places are preserved for current and future generations.

Key issue

- Identifying and protecting sites of significant Aboriginal heritage.

Objective

To provide for the protection and management of significant Aboriginal heritage sites, material culture, and places of historical and spiritual significance to relevant contemporary Aboriginal people.

Strategies*Use and development*

- Ensure Cultural Heritage Management Plans are prepared where required under State legislation.

Consultation

- Work in partnership with Registered Aboriginal Party/s and any other relevant stakeholders to manage and protect indigenous cultural heritage values
- Develop a process of consultation with Registered Aboriginal Party/s which will allow them to have input into development decisions at a strategic planning level.

Conservation sites

- Use public open space or linked corridors of public open space, within and between development areas, where possible, to conserve Aboriginal heritage sites, taking into account and balancing other community and environmental needs.

Implementation

The strategies in relation to Aboriginal cultural heritage will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use or development which may affect Aboriginal cultural heritage, considering, as appropriate:
 - The requirements of the Aboriginal Heritage Act 2006.

- When developing Precinct Structure Plans and Township Strategies, identifying and considering the issue of Aboriginal cultural heritage.

Further strategic work

- Considering the application of a Heritage Overlay to protect sites of Aboriginal heritage significance.

Reference documents

Shire of Cardinia Urban Growth Corridor Aboriginal Heritage Study (2004)

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Resource conservation

This section provides local content to support Clause 14.02 (Water) and 15.02 (Sustainable Development) of the State Planning Policy Framework.

Overview

Conserving, reducing and effectively managing the resources we use are essential to achieving ecological sustainable development. The use of fossil fuels, particularly in electricity generation and transport has been the major source of greenhouse gas emissions resulting in climate change. The community needs to respond to climate change through strategies to reduce greenhouse gas emissions and the implementation of adaptation strategies to reduce vulnerability to projected future impacts of climate change. Three key areas for reducing the impact on the environment within the municipality are air, water and general waste.

Key issues

- Minimising greenhouse gas emissions and developing greenhouse adaptation strategies.
- Reducing water consumption and improving water quality.
- Reducing waste generation and minimising waste going to land fill.

Objective

To develop and promote more environmentally sustainable ways of living and working, including greenhouse gas emission reductions.

Strategies

General

- Support the implementation of key regional activities identified through Western Port Greenhouse Alliance to reduce greenhouse gas emissions.

Reduction of greenhouse gas emissions

- Encourage developments that are based around public transport and alternative forms of transport including walking and cycling.
- Promote sustainable communities through appropriate urban design that encourages alternate forms of transport to reduce energy consumption.

Reduction in water consumption

- Ensure water sensitive urban design principles for all developments and subdivisions including the use of the third pipe recycled water systems and the use of water tanks where appropriate.
- Encourage the use of recycled or alternative water in the construction of roads in all subdivision and in other works and ongoing maintenance activities, where this water is available.

Design and construction

- Encourage the use of environmentally sustainable construction materials and techniques.
- Encourage development that incorporates sustainable building design including design that promotes the health and well being of occupants.
- Provide and preserve landscaping that enhances amenity and maintains ecosystems.

Implementation

The strategies in relation to resource conservation will be implemented through the planning scheme by:

Use of policy and exercise of discretion

- When deciding on applications for use and development, considering, as appropriate:
 - The development's impact in terms of its sustainability and impact on the environment through the use of appropriate design guidelines and general sustainability principles.
 - Implementation of the Cities for Climate Protection™ Program.
 - Best practice sustainable building guidelines for developers and general community as a means of improving the sustainability of the built environment.
 - The Sustainable Water Use Plan 2006 that identifies water consumption targets for Council and the community.
 - Implementation of the Sustainable Development and Greenhouse Reduction Strategy – Local Action Plan 2006.
- When developing Precinct Structure Plans and Township Strategies, considering the issue of resource conservation.

Other actions

- Replacing globes for public lighting to be more energy efficient.
- Supporting action and education programs to encourage more sustainable agricultural practices.
- Programs to provide revegetation of appropriate areas which may be used for carbon offsets.

Further strategic work

- The development of local sustainable buildings guidelines.

Reference documents

Sustainable Development and Greenhouse Reduction Strategy – Cardinia Local Action Plan 2006

Sustainable Water Use Plan (2006)

Cardinia Shire Council Stormwater Management Plan (2002)

Any listed at clause 14.02 (Water quality) of the State Planning Policy Framework