

# **WATTLE PARK RESERVE**



# **PLAN OF MANAGEMENT**

**ADOPTED BY CLARENCE VALLEY COUNCIL APRIL 2006**

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## **PART ONE - BACKGROUND**

### **Introduction**

Wattle Park Reserve is public land owned and managed by Clarence Valley under the provisions of the Local Government Act 1993.

On the 26<sup>th</sup> March 1997, the former Maclean Shire Council resolved to classify Wattle Park Reserve, being Lot 82 DP 247247, as community land. Wattle Park is public land dedicated to the former Maclean Shire Council in 1972 as part of a subdivision development.

Clarence Valley Council engaged North Coast Environmental Planning to prepare a Plan of Management for Wattle Park. Preparation of the Wattle Park Plan of Management has included consultation with the Wattle Park Section 355 committee and Clarence Valley Council's planning and engineering staff.

The provisions of the Local Government Act 1993 require Council to prepare a Plan of Management for land classified as community land and to manage the subject land in accordance with the Plan of Management.

The planning process requires the Plan of Management to identify the category of land, objectives and performance targets for management.

Wattle Park is comprised of an open area of mowed grass categorised as Park and an area vegetated with a Swamp Oak community categorised as a Natural Area. In addition, the Swamp Oak vegetation community is classified as an endangered ecological community under the provisions of the Threatened Species Conservation Act 1995.

Land that is categorised as a Natural Area must be further categorised according to requirements of the Local Government Act.

### **Zoning**

Wattle Park Reserve is zoned 6(a) Open Space under the provisions of the Maclean Local Environmental Plan (2001).

### Sewage Pump Station

Chapter 6, Part 2 S.25 of the Local Government Act requires all land to be classified. There are two classifications for public land, operational and community land. Operational land is public land that facilitates the carrying out by a Council, its functions or land which may not be open to the general public such as a works depot.

A sewage pump station located on the south-west corner of Wattle Park is inconsistent with the classification of community land and this section of land should be reclassified to operational land.

The process by which land can be transferred to Operational land from Community land is set down in the provisions of the Local Government Act.

The sewage pump station should be fenced to restrict entry to the area.

Council resolved, at its Ordinary Meeting , on Tuesday 16 May 2006, as follows:

*“1. That Council, pursuant to Section 54 of the Environmental Planning & Assessment Act 1979, resolve to prepare a draft local environmental plan to reclassify a part of the Wattle Park Reserve, being an area generally occupied by a sewage pump station, to ‘operational’ land within the meaning of the Local Government Act 1993.*

*2. That the draft plan be prepared in accordance with the Best Practice Guideline ‘LEPs and Council Land’ (Department of Urban Affairs and Planning, January 1997), and be prepared in conjunction with the Clarence Valley Integrated LEP.”*

### Encroachments

A recent subdivision adjoining Wattle Park has encroached onto the reserve by approximately 6-8 metres and has involved clearing of Swamp Oak vegetation community and erection of a fence of approximately 2-3 metres in height along the length of the reserve. Figure 1 shows the extent of vegetation before clearing occurred in 2005 on Wattle Park Reserve and the adjoining private land to the east.

Exclusive occupation or use of community land is prohibited unless there has been a lease or licence granted under the provisions of the Local Government Act, Clarence Valley Council should require removal of the fence from the Reserve.

### Drainage

Wattle Park is low-lying land where water ponds for a relatively short time after heavy rainfall. A downpour of 321mm of rain, measured over a period of 30 hours till 4pm Thursday 30<sup>th</sup> June

2005 (The Northern Star 1 July 2005), inundated part of the Reserve (Plate 1). Most of this water had drained off the site after approximately 24 hours (Plate 2).



**Plate 1. Wattle Park Reserve after approx. 321mm of rain in a 30 hour period**  
(Photo taken at 16:00hrs 30<sup>th</sup> June 2005)



**Plate 2. Wattle Park Reserve with water draining after approx 24 hours.**  
(Photo taken at 17:00hrs 1<sup>st</sup> July 2005)

There has been no drainage study carried out as part of this Plan of Management. The development proposed on the land adjoining the eastern boundary of Wattle Park Reserve

includes development consent to fill the land and as a result this land will be at a higher level than the Wattle Park Reserve. The stormwater from the proposed development will drain to the east away from Wattle Park and will not contribute to surface water running onto the Reserve (pers.comm. I. Shanahan, Clarence Valley Council Engineering Services).

Drainage design has been carried out by consultants for the proposed development adjoining the eastern boundary of Wattle Park Reserve to ensure drainage of the Reserve runs towards Telopea Avenue (pers.comm.. D.Andrews, Clarence Valley Council Engineering Services).

After heavy rainfall water ponds on Wattle Park as demonstrated by the photos in Plates 1 and 2. The water drains away relatively quickly, this may be due to seepage into the groundwater table and pers.comm. Bill Clements a nearby resident the water recedes rapidly when the tide runs out.

There does not appear to have been any investigation to ascertain where surface water from Wattle Park drains to. An investigation may be required after the land to the east is filled. Some areas of the adjacent land on the eastern boundary are currently at a lower point than the Reserve according to levels taken by Clarence Valley Council's Engineering Department.

In response to concerns presented to Council during the exhibition of the Draft Plan of Management, Council resolved at its Ordinary Meeting on Tuesday 18 April 2006, in part, as follows:

*"1. That Council adopt the Draft Plan of Management for Wattle Park Reserve subject to changes within the Plan consistent with the following:*

*a. ....*

*d. The drainage investigation be completed before any improvements are made on the Reserve that affect local drainage;....."*

This resolution will be reflected in the Management Actions contained in Table 1 (Part 2) of this Plan.

## **Legislation**

### Local Environmental Plan

Wattle Park Reserve is subject to the provisions of the Maclean Shire Council Local Environmental Plan 2001 and is zoned 6(a) Open Space.

### Local Government Act

Chapter 6, Part 2 of the Local Government Act requires all land vested in a council to be classified as operational or community land. This process can be by way of the Local Environmental Plan or a resolution by Council.

Operational land is land that facilitates the carrying out by council, its functions, or land which may not be open to the general public, such as works or depot or a council garage. The sewage pump station located on the south-western corner of Wattle Park should be re-classified as Operational land. Refer to “Sewage Pump Station” section on page 4.

Community land comprises land, generally, such as a public park. The use and management of community land is to be regulated by a Plan of Management. Until a plan of management is adopted, the nature and use of the land must not change.

Wattle Park Reserve is classified as community land and is categorised both as a natural area and park. Land that is categorised as a Natural Area must be further categorised under the provisions of the Local Government Act as one or more of either Bushland, Wetland, Escarpment, Watercourse or Foreshore.

The Natural Area of the Reserve has been sub-categorised as Bushland and Wetland due to the vegetation type, structure and density and because the Swamp Oak is a wetland community. In addition, Swamp Oak is listed as an Endangered Ecological Community under Schedule 1 of the Threatened Species Conservation Act 1995.

The core objectives for management of each category are set down in the provisions of the Local Government Act and these have been included in Part 2 of this Plan of Management. In this case Core Objectives for the categories of Park, Natural Area, Bushland and Wetland apply.

### Threatened Species Conservation Act

The Threatened Species Conservation Act 1995 (TSC Act) outlines the protection of threatened species, communities and critical habitat in New South Wales. The Wattle Park Reserve supports Swamp Oak identified as an Endangered Ecological Community under Schedule 2 of the TSC Act.

## **Mapping**

Mapping for Wattle Park has been prepared by Clarence Valley Council. Figure 1 shows the boundary and generally the management sections. Mapping of the Reserve boundary and management units was completed using cadastral data provided by the Land Information Centre for use in Council's Geographic Information System (GIS). As the name suggests, this system is an information system only, therefore, some discrepancies will exist between boundaries displayed on the map and survey accurate boundary locations.

## **Natural Resource Values**

Wattle Park Reserve is located in a popular residential area in the north-west of the Yamba urban area. The reserve is located on Wattle and Park Streets and there is existing residential housing adjoining the northern boundary of the reserve and a proposed subdivision on the eastern boundary. The reserve supports an area of remnant Clarence floodplain vegetation, being Swamp Oak community protected under the provisions of the Threatened Species Conservation Act.

### Vegetation

A flora survey was not conducted as part of the planning process for Wattle Park although the vegetation can be generally described as a Swamp Oak community with Swamp Oak (*Casuarina glauca*) as the dominant species with various rainforest species also present within the community.

### Fauna

Wattle Park is located in a residential urban area. The surrounding area has been cleared of natural vegetation. The remaining vegetation within the Reserve is an isolated fragment of Swamp Oak community. A fauna study has not been conducted at this site.

The Reserve supports a range of birds and Bill Clements of *Clarence Valley Birdos* and long-time resident adjacent to Wattle Park, has observed 48 species (Appendix 1). Grey-crowned Babbler is included in this list, this species are listed as Vulnerable under Schedule 2 of the Threatened Species Conservation Act.

The remnant Swamp Oak community on Wattle Park could be expected to provide important habitat for a range of birds, frogs, reptiles, micro-bats and flying foxes. It could also be expected that some of these may be species listed in Schedules 1 and 2 of the Threatened Species Conservation Act 1995. Threatened species that potentially occur on the Reserve could be



identified through a field survey. A field survey would be necessary if there were to be any disturbance of the remnant native vegetation on Wattle Park.

### **Current Condition Of The Land**

Wattle Park Reserve is comprised of two categories, Park and Natural Area under the provisions of the Local Government Act. The section categorised as Park as identified on Figure 1 is regularly mowed by Council and has two shallow drains running through it. The central drain running east-west poses a trip hazard to park users that enjoy the open space for casual ball games and general recreation.

The Natural Area in the Reserve has been identified on Figure 1 and is Bushland and Wetland supporting a Swamp Oak community. The Swamp Oak community contains some rainforest elements and some weed species including Camphor Laurel and Lantana. A weed control program will provide ongoing maintenance and improve the condition of the remnant Swamp Oak community.

### **Consideration of the Draft Plan**

The Draft Plan of Management was exhibited for public perusal and comment. Seven (7) written submissions were received and Council considered that feedback at its Ordinary Meeting on Tuesday 18 April 2006. Council resolved to adopt the Plan subject to some changes in response to submissions from the public. In this regard, Council resolved as follows:

*“1. That Council adopt the Draft Plan of Management for Wattle Park Reserve subject to changes within the Plan consistent with the following:*

- a. The provision of toilet and BBQ/picnic facilities be implemented as a low priority and not before such time as the nearby developments in Park Avenue (west) are completed and the demand for such facilities is reviewed in consultation with the community;*
- b. The car parking area adjacent to the Sewage Pumping Station, and associated access, be implemented as a priority and be subject to additional public consultation;*
- c. The design of car parking areas consider the needs of traffic using adjacent road reserves;*
- d. The drainage investigation be completed before any improvements are made on the Reserve that affect local drainage;*
- e. Facilities are located and landscaped to reduce visual impact where appropriate;*
- f. The Plan allow for the provision of lighting within the Park. Such lighting to be designed to minimise nuisance and vandalism potential; and*
- g. The Plan allow for the provision of public art within the Park.”*

Changes to the Management Actions and Performance Assessment targets in Part 2 of this Plan will reflect that resolution. Council also made resolutions at its meeting of 18 April 2006, and at its Ordinary Meeting on Tuesday 16 May 2006, in respect of administrative processes concerning the Plan. Those additional resolutions have been included at relevant sections of this Plan of management where relevant.

## PART TWO – MANAGEMENT

### Management Issues

Wattle Park Reserve is categorised as both a Park and a Natural Area and further categories identified include Bushland and Wetland. Core objectives of these categories are listed below and generally include conservation, protection, restoration, education and mitigative measures.

### Objectives

Core objectives are determined by the Local Government Act for each category of community land. These are used in Table 1 and include the following objectives for each category:

#### Park

1. To encourage, promote and facilitate recreational, cultural, social and educational pastimes and activities,
2. To provide for passive recreational activities or pastimes and for the casual playing of games,
3. To improve the land in such a way as to promote and facilitate its use to achieve the other core objectives for its management.

#### Natural Area

1. To conserve biodiversity and maintain ecosystem function in respect of the land, or the feature or habitat in respect of which the land is categorised as a natural area, and
2. to maintain the land, or that feature or habitat, in its natural state and setting, and
3. to provide for the restoration and regeneration of the land, and
4. to provide for community use of and access to the land in such a manner as will minimise and mitigate any disturbance caused by human intrusion, and
5. to assist in and facilitate the implementation of any provisions restricting the use and management of the land that are set out in a recovery plan or threat abatement plan prepared under the *Threatened Species Conservation Act 1995* or the *Fisheries Management Act 1994*.

#### Bushland

1. To ensure the ongoing ecological viability of the land by protecting the ecological biodiversity and habitat values of the land, the flora and fauna (including invertebrates, fungi and micro-organisms) of the land and other ecological values of the land, and

2. To protect the aesthetic, heritage, recreational, educational and scientific values of the land, and
3. To promote the management of the land in a manner that protects and enhances the values and quality of the land and facilitates public enjoyment of the land, and to implement measures directed to minimising or mitigating any disturbance caused by human intrusion, and
4. To restore degraded bushland, and
5. To protect existing landforms such as natural drainage lines, watercourses and foreshores, and
6. To retain bushland in parcels of a size and configuration that will enable the existing plant and animal communities to survive in the long term, and
7. To protect bushland as a natural stabiliser of the soil surface.

### Wetland

1. To protect the biodiversity and ecological values of wetlands, with particular reference to their hydrological environment (including water quality and water flow), and to the flora, fauna and habitat values of the wetlands, and
2. To restore and regenerate degraded wetlands, and
3. To facilitate community education in relation to wetlands, and the community use of wetlands, without compromising the ecological values of wetlands.

### **Impacts**

Wattle Park Reserve has, for many years, been subject to a range of activities that include a lease for grazing horses, encroachment of gardens, rubbish dumping, including green-waste, and unauthorised fires & camping.

A section of vegetation was recently cleared without Council's authorisation approximately 6 to 8 metres inside the eastern boundary. A construction safety fence was also erected at the same time approximately 6 to 8 metres within the boundary of the Reserve. Clarence Valley Council should require removal of the fence from the Reserve.

Weed infestation within the Swamp Oak community on the eastern section of the Reserve is an issue that should be addressed through a vegetation management plan to include weed control.

Drainage may be an issue in the future when the property adjoining the eastern boundary is filled. Ponding of water, provided it is only temporary, within the Reserve and is not considered to be an impact on the Swamp Oak community. Extensive waterlogging may pose a problem

and drainage from neighbouring developments should not be directed to Wattle Park Reserve. The “Drainage” section on page 6 contains details of Council’s resolution, dated 18 April 2006, when it was determined that a drainage investigation should be completed before any improvements are made on the Reserve that may affect local drainage.

### **Achievement of Performance Targets**

Management Actions and Performance Targets (Table 1) for Wattle Park have been developed through identification of impacts and pressures on the Park Section of the Reserve and the sensitive ecological values of the Natural Area of the Reserve in combination with addressing core objectives listed under Chapter 6 Part 2, Public Land, of the Local Government Act. The section of Wattle Park that supports Swamp Oak is assessed as a Natural Area. Swamp Oak is an Endangered Ecological Community listed under Schedule 1 of the Threatened Species Conservation Act.

The success of implementing this Plan of Management can be determined by measuring against these targets. The Plan of Management should have a 5 year review period to monitor the implementation and review any new issues that may arise.

Table 1 - Wattle Park Management

**Park**

<b>Objective</b>	<b>Action</b>	<b>Performance Assessment</b>
<p>P1. To encourage, promote and facilitate recreational, cultural, social and educational pastimes and activities.</p>	<ol style="list-style-type: none"> <li>1. Provide &amp; maintain walking track network of appropriate construction in Wattle Park in order to provide access to facilities and the Reserve.</li>   <li>2. Provide &amp; maintain barbecue pavilion in the south-western section of the Park</li>   <li>3. Provide &amp; maintain bench seating at intervals along walking track network;</li>   <li>4. Provide &amp; maintain toilet facility adjacent to barbecue &amp; south-west parking area;</li> </ol>	<ol style="list-style-type: none"> <li>1. Walking track network provided &amp; maintained;</li>   <li>2. Barbecue pavilion &amp; bench seating provided &amp; maintained. This Action to be implemented as a low priority and not before such time as the nearby developments in Park Avenue (west) and immediately east of Wattle Park are completed and the demand for such facilities is reviewed in consultation with the community;</li>   <li>3. Bench seating provided &amp; maintained.</li>   <li>4. Toilet facility provided &amp; maintained. This Action to be implemented as a low priority and not before such time as the nearby developments in Park Avenue (west) and immediately east of Wattle Park are completed and the demand for such facilities is reviewed in consultation with the community;</li> </ol>

	<p>5. Provide &amp; maintain car parking at the south-west section of the Reserve to encourage access to park facilities and service the Sewage Pump Station.</p> <p>6. Provide &amp; maintain car parking at the north-west section of the Reserve to encourage access to park facilities.</p> <p>7. Restrict off-leash dog exercise area to Park section of Wattle Park Reserve.</p> <p>8. Complete drainage investigation for the Wattle Park Reserve to minimise impact of improvements on local drainage.</p> <p>9. Facilities to be located and landscaped to reduce visual impact where appropriate.</p>	<p>5. Car parking provided &amp; maintained. Parking adjacent to the Sewage Pumping Station, and associated access, shall be implemented as a priority and subject to additional public consultation. The design of the car parking area, and associated access, shall be considerate of the needs of traffic using the adjacent road reserve/s;</p> <p>6. Car parking provided &amp; maintained. The design of the car parking area, and associated access, shall be considerate of the needs of traffic using the adjacent road reserve/s</p> <p>7. Dogs off-leash restricted to Park section &amp; enforcement ongoing.</p> <p>8. Drainage investigation completed before any improvements are made on the Reserve that affect local drainage;</p> <p>9. Visual impact of new facilities acceptable;</p>
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	<p>10. Lighting to be installed within the Reserve.</p> <p>11. That public art be provided or installed within the Park where appropriate.</p>	<p>10. Lighting to be designed and installed to minimise nuisance and vandalism potential;</p> <p>11. That the opportunity for public art to be installed within the Reserve is provided. Location of such art to be considered on its merits.</p>
<p>P2. To provide for passive recreational activities or pastimes for the casual playing of games.</p>	<p>1. Maintain mowed area within Park Section to facilitate passive recreation, playing of casual games &amp; off-leash exercise of dogs under control of owner or responsible person;</p> <p>2. Investigate construction of low-key facilities to encourage active exercise.</p> <p>3. Lighting to be installed within the Reserve.</p> <p>4. That public art be provided or installed within the Park where appropriate.</p>	<p>1. Park Section grass mowed regularly.</p> <p>2. Investigation of low-key facilities completed &amp; identified facilities constructed &amp; maintained.</p> <p>3. Lighting to be designed and installed to minimise nuisance and vandalism potential;</p> <p>4. That the opportunity for public art to be installed within the Reserve is provided. Location of such art to be considered on its merits.</p>
<p>P3. To improve the land in such a way as to promote and facilitate its use to achieve the other core objectives for its management.</p>	<p>1. Provide &amp; maintain barbecue pavillion, toilet, walking track network &amp; seating facilities generally in accordance with Actions under Objective P1 above.</p>	<p>1. Barbecue pavilion, walking track network, toilet &amp; seating facilities provided &amp; maintained. That implementation comply with Performance Assessment items 2 and 4 under Objective P1.</p>



	<p>2. Provide &amp; maintain car parking facilities consistent with Action 5 and 6 under Objective P1 above, to encourage access to the Reserve;</p> <p>3. Provide &amp; maintain walking track network of appropriate construction through Wattle Park Reserve in accordance with Action 1 under Objective P1 above;</p> <p>4. Fill shallow east-west central swale drain to reduce trip hazard for users playing games and recreational activities (refer Figure 1).</p> <p>5. Maintain dog litter bin.</p> <p>6. Re-classify the area immediately surrounding the sewage pump station as Operational Land.</p> <p>7. Provide opportunity for small demonstration garden area adjacent to sewage pump station with requirement for landscape plan.</p>	<p>2. Car parking facilities provided &amp; maintained in accordance with the relevant Performance Assessment items 5 and 6 under Objective P1;</p> <p>3. Walking track network constructed &amp; maintained;</p> <p>4. Shallow drain filled &amp; Park Section a relatively level surface.</p> <p>5. Dog litter bin maintained.</p> <p>6. Sewage pump station classified as Operational land.</p> <p>7. Demonstration garden planted &amp; maintained.</p>
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	<p>8. Complete drainage investigation for the Wattle Park Reserve to minimise impact of improvements on local drainage.</p> <p>9. Facilities to be located and landscaped to reduce visual impact where appropriate.</p> <p>10. Lighting to be installed within the Reserve.</p> <p>11. That public art be provided or installed within the Park where appropriate.</p>	<p>8. Drainage investigation completed before any improvements are made on the Reserve that affect local drainage;</p> <p>9. Visual impact of new facilities acceptable;</p> <p>10. Lighting to be designed and installed to minimise nuisance and vandalism potential;</p> <p>11. That the opportunity for public art to be installed within the Reserve is provided. Location of such art to be considered on its merits.</p>
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### Natural Area

Objective	Action	Performance Assessment
N1. To conserve biodiversity and maintain ecosystem function in respect of the land, or the feature or habitat in respect of which the land is categorised as a natural	<p>1. Manage &amp; contain environmental &amp; noxious weeds;</p> <p>2. Maintain current hydrological regime to provide for ecosystem function of the Swamp Oak community.</p>	<p>1. Noxious &amp; environmental weeds managed &amp; contained.</p> <p>2. Swamp Oak community in good condition.</p>

	<p>3. Conduct a flora &amp; fauna survey in the event of any planned activity and/or disturbance within the Swamp Oak community.</p> <p>4. Council to investigate drainage of the Reserve to manage surface water if required without compromising the ecological values of the Natural Area Section;</p>	<p>3. Flora &amp; fauna survey conducted if required.</p> <p>4. Drainage of Reserve investigated and appropriate measures completed without compromising the ecological values of the Natural Area Section</p>
N2. To maintain the land, or that feature or habitat, in its natural state and setting	<p>1. Manage &amp; contain environmental &amp; noxious weeds;</p> <p>2. Maintain current hydrological regime to provide for ecosystem function of the Swamp Oak community.</p> <p>3. Complete drainage investigation for the Wattle Park Reserve to minimise impact of improvements on local drainage.</p>	<p>1. Noxious &amp; environmental weeds managed &amp; contained.</p> <p>2. Swamp Oak community in good condition.</p> <p>3. Drainage investigation completed before any improvements are made on the Reserve that affect local drainage;</p>
N3. To provide for the restoration and regeneration of the land	<p>1. Manage &amp; contain noxious &amp; environmental weeds.</p>	<p>1. Noxious &amp; environmental weeds managed &amp; contained.</p>

	2. Regenerate vegetation, cleared without authority on the eastern side of the Reserve adjoining the proposed development, while allowing for a walking track on the eastern boundary.	2. Vegetation re-established on the eastern side of the Reserve & walkway constructed adjacent to the boundary.
N4. To provide for community use of and access to the land in such a manner as will minimise and mitigate any disturbance caused by human intrusion	<p>1. Provide &amp; maintain walking track network of appropriate construction in Wattle Park in order to provide access to facilities and the Reserve whilst minimising disturbance to the Natural Area section.</p> <p>2. Barbecue pavillion, parking &amp; toilet facilities should be located within the Park Section;</p> <p>3. Provide &amp; maintain bench seats within the Natural Area section.</p> <p>4. Maintain mowed area within Natural Area section adjacent to walking track network to facilitate safe access to track and bench seats.</p>	<p>1. Walking track network established and users accessing designated pathways.</p> <p>2. Facilities constructed within the Park Section. That implementation comply with Performance Assessment items 2 and 4 under Objective P1, and Performance Assessment items 5 and 6 under Objective P1, as relevant.;</p> <p>3. Bench seats provided &amp; maintained;</p> <p>4. Area immediately adjacent to walking track network &amp; bench seats mowed as required.</p>

	<p>5. Complete drainage investigation for the Wattle Park Reserve to minimise impact of improvements on local drainage.</p> <p>6. Lighting to be installed within the Reserve.</p>	<p>5. Drainage investigation completed before any improvements are made on the Reserve that affect local drainage;</p> <p>6. Lighting to be designed and installed to minimise impact on Natural Area and local amenity, and minimise vandalism potential.</p>
<p>N5. To assist in and facilitate the implementation of any provisions restricting the use and management of the land that are set out in a recovery plan or threat abatement plan prepared under the <i>Threatened Species Conservation Act 1995</i> or the <i>Fisheries Management Act 1994</i></p>	<p>1. Provide environmental and noxious weed control to improve condition of Swamp Oak as Endangered Ecological Community.</p>	<p>1. Environmental &amp; noxious weeds contained &amp; Swamp Oak community in good condition.</p>

### **Bushland**

<b>Objective</b>	<b>Action</b>	<b>Performance Assessment</b>
<p>B1. To ensure the ongoing ecological viability of the land by protecting the ecological biodiversity and habitat values of the land, the flora and fauna (including invertebrates, fungi and micro-organisms) of the land and other ecological values of the land</p>	<p>1. Provide environmental and noxious weed control to improve condition of Swamp Oak as Endangered Ecological Community;</p> <p>2. Maintain current hydrological regime to provide for ecosystem function of the Swamp Oak community.</p>	<p>1. Environmental and noxious weeds contained &amp; Swamp Oak community in good condition.</p> <p>2. Swamp Oak community in good condition.</p>

	<p>3. Conduct a flora &amp; fauna survey in the event of any planned activity and/or disturbance within the Swamp Oak community.</p>	<p>3. Flora &amp; fauna survey conducted if required.</p>
<p>B2. To protect the aesthetic, heritage, recreational, educational and scientific values of the land</p>	<p>1. Provide signage to inform users of the ecological values of the Endangered Ecological Community, Swamp Oak;</p> <p>2. Construct facilities using low-key design &amp; colours, and locate and landscape, to reduce visual impact where appropriate.;</p> <p>3. Regenerate vegetation, cleared without authority on the eastern side of the Reserve adjoining the proposed development, while allowing for a walking track on the eastern boundary;</p> <p>4. Provide appropriate signage to discourage unauthorised activities on the Reserve, for example waste disposal, camping &amp; lighting of fires.</p>	<p>1. Signage designed &amp; constructed.</p> <p>2. Facilities constructed in low-key design &amp; colours, and located and landscaped, to ensure visual impact is acceptable;</p> <p>3. Vegetation re-established on the eastern side of the Reserve &amp; walkway constructed adjacent to the boundary;</p> <p>4. Appropriate signage erected &amp; enforcement of unauthorised activities.</p>

<p>B3. To promote the management of the land in a manner that protects and enhances the values and quality of the land and facilitates public enjoyment of the land, and to implement measures directed to minimising or mitigating any disturbance caused by human intrusion</p>	<ol style="list-style-type: none"> <li>1. Construct &amp; maintain bench seats &amp; designated walking paths to reduce environmental impact while encouraging use of the Reserve;</li> <li>2. Manage &amp; contain noxious &amp; environmental weeds.</li> <li>3. Complete drainage investigation for the Wattle Park Reserve to minimise impact of improvements on local drainage.</li> <li>4. Facilities to be located and landscaped to reduce visual impact where appropriate.</li> <li>5. Lighting to be installed within the Reserve.</li> </ol>	<ol style="list-style-type: none"> <li>1. Bench seats &amp; designated walking paths constructed &amp; maintained to minimise erosion.</li> <li>2. Noxious &amp; environmental weeds managed &amp; contained.</li> <li>3. Drainage investigation completed before any improvements are made on the Reserve that affect local drainage;</li> <li>4. Visual impact of new facilities acceptable;</li> <li>5. Lighting to be designed and installed to minimise impact on Natural Area and local amenity, and minimise vandalism potential.</li> </ol>
<p>B4. To restore degraded bushland</p>	<ol style="list-style-type: none"> <li>1. Manage &amp; contain noxious &amp; environmental weeds.</li> </ol>	<ol style="list-style-type: none"> <li>1. Noxious &amp; environmental weeds managed &amp; contained.</li> </ol>

	<p>2. Regenerate vegetation, cleared without authority on the eastern side of the Reserve adjoining the proposed development, while allowing for a walking track and grass swale on the eastern boundary.</p>	<p>2. Vegetation restored incorporating grass swale &amp; walking path.</p>
<p>B5. To protect existing landforms such as natural drainage lines, watercourses and foreshores</p>	<p>1. Small drain running into Reserve at the southern end of the Reserve reconstructed to a shallow grass swale (refer Figure 1).</p> <p>2. Complete drainage investigation for the Wattle Park Reserve to minimise impact of improvements on local drainage.</p>	<p>1. Small drain reconstructed into shallow grass swale.</p> <p>2. Drainage investigation completed before any improvements are made on the Reserve that affect local drainage.</p>
<p>B6. To retain bushland in parcels of a size and configuration that will enable the existing plant and animal communities to survive in the long term.</p>	<p>1. Maintain existing Swamp Oak community &amp; allow regeneration of eastern section compatible with proposed walkway and grass swale along the eastern side of the Reserve.</p>	<p>1. Swamp Oak community regenerated to be compatible with proposed walkway &amp; grass swale.</p>
<p>B7. To protect bushland as a natural stabiliser of the soil surface.</p>	<p>1. Refer to Action 4 under Objective N1;</p> <p>2. Restrict mowing to areas adjacent to proposed walking track network &amp; bench seats within the Natural Area section.</p>	<p>1. Refer to Performance Assessment 1 under Objective N1;</p> <p>2. Mowing excluded from the Swamp Oak community.</p>



	3. Refer to Action 1 under Objective B6.	3. Refer to Performance Assessment 1 under Objective B1.
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## Wetland

Objective	Action	Performance Assessment
W1. To protect the biodiversity and ecological values of wetlands with particular reference to their hydrological environment (including water quality and water flow), and to the flora, fauna and habitat values of the wetlands.	1. Refer to Action 4 under Objective N1;  2. Refer Action 3 under Objective B1.  3. Complete drainage investigation for the Wattle Park Reserve to minimise impact of improvements on local drainage.	1. Refer to Performance Assessment 1 under Objective N1;  2. Refer Performance Assessment 3 under Objective B1.  3. Drainage investigation completed before any improvements are made on the Reserve that affect local drainage.
W2. To restore and regenerate degraded wetlands.	1. Manage & contain noxious & environmental weeds within the Swamp Oak community.  2. Refer to Action 2 under Objective B4.	1. Noxious & environmental weeds managed & contained.  2. Refer to Performance Assessment 2 under Objective B4.

<p>W3. To facilitate community education in relation to wetlands and the community use of wetlands, without compromising the ecological values of wetlands.</p>	<ol style="list-style-type: none"> <li>1. Refer to Action 2 under Objective B2.</li> <li>2. Lighting to be installed within the Reserve.</li> </ol>	<ol style="list-style-type: none"> <li>1. Refer to Performance Assessment 2 under Objective B2.</li> <li>2. Lighting to be designed and installed to minimise impact on Natural Area and local amenity, and minimise vandalism potential.</li> </ol>
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Figure 1. Wattle Park Reserve Boundary & Management Units



## References

<http://www.legislation.nsw.gov.au>

The Northern Star. Lismore. 1 July 2005

Slater P., P, & R. 2001. The Slater Field Guide to Australian Birds revised ed. Sydney.

## Appendix 1 – Wattle Park Bird List

Intermediate Egret	Black-faced Cuckoo-shrike
White-faced Heron	Golden Whistler
Straw-necked Ibis	Grey Shrike-thrush
Wood Duck	Restless Flycatcher
Whistling Kite	Grey Fantail
Masked Lapwing	Willie Wagtail
Silver Gull	Grey-crowned Babbler
Crested Pigeon	Little Wattlebird
Bar-shouldered Dove	Little Friarbird
Spotted Turtle-Dove (introduced)	Noisy Friarbird
White-headed Pigeon	Blue-faced Honeyeater
Galah	Noisy Miner
Rainbow Lorikeet	Lewin's Honeyeater
Scaly-breasted Lorikeet	Brown Honeyeater
Eastern Rosella	House Sparrow (introduced)
Pheasant Coucal	Figbird
Cannel-billed Cuckoo	Spangled Drongo
Koel	Magpie-lark
Laughing Kookaburra	Pied Butcherbird
Rainbow Bee-eater	Grey Butcherbird
Dollarbird	Pied Currawong
Unidentified Owl	Torresian Crow
Fork-tailed Swift	
Welcome Swallow	Total = 49
Richard's Pipit	